



Building knowledge

# Job Order Contract Construction Task Catalog®

Book 1 CSI Divisions 01 - 26 June 2018

County of San Mateo,  
Roofing



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## CTC Information:

- ☑ This Construction Task Catalog® was developed and customized by The Gordian Group, Inc. specifically for **County of San Mateo**, priced locally using current labor, material and equipment costs, and published in June 2018.
- ☑ The Gordian Group, Inc. licenses the use of this CTC and other proprietary information and software for the sole purpose of providing Job Order Contracting services to **County of San Mateo**. Use of The Gordian Group's CTC and other proprietary information and software for any other purpose or any other entity is expressly prohibited without the express written consent of The Gordian Group, Inc.

## MasterFormat™

- ☑ The tasks in this Construction Task Catalog are organized using CSI's *MasterFormat*.



## The Unit Prices Include:

### LABOR COSTS:

- ☑ Labor costs include unloading equipment, materials, and tools, and transporting the same up or down 2 1/2 stories and 125' to reach the project site; layout; measuring and cutting to fit; performing the task; disposal of excess material; and time for lunch and breaks.
- ☑ Labor costs include direct labor through the working foreperson level at straight-time prevailing wage rates including fringe benefits and an allowance for Social Security and Medicare taxes, worker's compensation, unemployment insurance and employee benefits.

- ☑ Labor costs are based on workers familiar with and skilled in the performance of the task following OSHA requirements.

### EQUIPMENT COSTS:

- ☑ Equipment costs include all equipment required to accomplish the task.
- ☑ Mobilization is included for all equipment except large equipment (e.g. cranes, pile drivers, bulldozers, excavators, backhoes, bobcats etc.), which exclude mobilization.
- ☑ Equipment costs include all operating expenses such as fuel, electricity, lubricants, etc.

### MATERIAL COSTS:

- ☑ Material costs include the cost of the material, delivery, and all incidentals and accessories integral to the installation.
- ☑ Material costs include manufacturer's and/or fabricator's shop drawings.
- ☑ Material costs for roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, concrete, etc. include an allowance for waste. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.

## Complete and In-Place Construction:

- ☑ Unit prices are for complete and in-place construction and include all labor, equipment and material required to complete the task as described in the CTC.
- ☑ If the Contractor uses a crane or other lifting equipment (except a truck mounted boom lift or other equipment as part of the delivery process) to lift material onto a roof, even if that roof is less than 2 ½ stories, the contractor will be paid for such crane or lifting equipment as a separate task.

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- ☑ Unit prices for imported materials (e.g. aggregate, sand, soil, etc.) include delivery up to 15 miles from the closest approved source.
- ☑ Unit prices include all fasteners such as anchor bolts, lag bolts, screws, adhesive, wedge anchors, expansion bolts, roofing clips (excluding hurricane clips) that are required. Fasteners listed separately in the CTC are for use with Owner furnished material and equipment or relocating or reinstalling existing material and equipment.
- ☑ Unit prices exclude more substantial mounting material such as threaded rod or angle iron unless the task description states otherwise.
- ☑ Unit prices for doors and windows, duct work, plumbing fixtures, seamless floors, countertops, flashing, pitch pockets, skylights, curbs, roofing, etc. include sealant and caulking.
- ☑ Unit prices include testing, calibration, balancing and the like required to ensure proper installation, construction and performance (e.g. compaction test for backfill, balancing of heating ventilation and air conditioning, pneumatic or hydrostatic testing, soaping of joints, disinfection and flushing, others as required). Use of owner supplied materials, equipment or tying into existing equipment/piping may justify testing, balancing, etc.

**Demolition:**

- ☑ Unit prices for demolition include all labor, equipment and material required for the complete removal of the items; clean-up of the area; and transporting the demolished items up or down 2 ½ stories into a truck, dumpster, or to an owner designated area, located within 125' of the project site.
- ☑ Unit prices for demolition exclude costs for hauling (See 01741900), dump fees (See 01741900), dumpsters (See 01741900), and trash chutes (See 01741900).
- ☑ If the item being demolished is attached to another item being removed and can be removed as one item, then that item shall not be priced as a

separate demolition task, unless the component alone must be demolished to accomplish the task (e.g. demolition of pipe includes pipe fittings unless the fitting must be demolished separately to accomplish the task; demolition of a wood door includes hinges, hardware, closures, kick plates, etc.).

- ☑ The description "replace" includes the demolition of the existing item and the installation of the new item.
- ☑ The descriptions "remove and relocate" or "remove and reinstall" includes the removal, cleaning of item and installation of the existing item in either the same location or another location.
- ☑ The description "reinstall" includes the cleaning and installation of the existing item.
- ☑ Salvageable materials remain the property of the Owner and shall be turned over as directed when specified in the Job Order.

**The Adjustment Factors Include:**

**BUSINESS COSTS:**

- ☑ Overhead costs, including, unless specifically excluded in the Contract Documents, but not limited to;
  - home office overhead
  - insurance, bonds, and indemnification
  - project meetings, training, management and supervision
  - mobilization and close-out for the contract and each Job Order and
  - project office staff and equipment.
- ☑ Profit.
- ☑ Subcontractor's overhead and profit.
- ☑ All taxes for which a waiver is not available including material sales tax and equipment rental.
- ☑ Employee or Subcontractor's wage rates that exceed the prevailing wage rates.



- ☑ Fringe benefits, payroll taxes, worker's compensation, insurance costs and any other payment mandated by law in connection with labor that exceeds the labor rate allowances.
- ☑ Cost of financing the work.
- ☑ Business risks such as the risk of a lower than expected volume of work, smaller than anticipated Job Orders, poor Subcontractor performance, and inflation or material cost fluctuations.

### CONSTRUCTION RELATED COSTS:

- ☑ Services required to obtain filings and permits.
- ☑ Preparation and modification of proposals, sketches, drawings, submittals, as-built drawings, CADD drawings, microfilm, and other project records.
- ☑ Incidental engineering and architectural services.
- ☑ Office trailer and portable toilets for Contractor's use.
- ☑ Construction vehicles such as pick-up trucks, utility trucks, vans, flat bed trucks, tractors, trailers, etc.
- ☑ Storage devices or items such as gang boxes and containers for Contractor's tools, equipment and materials.
- ☑ Basic safety and warning signage, minor barricades (e.g., construction tape, etc.) and personnel safety equipment (e.g., hard hats, safety harnesses with lifeline or cabling, protective clothing, safety glasses, face shields, etc.).
- ☑ Meeting Owner security requirements.
- ☑ Excess waste including roofing, drywall, VCT, carpet, wall covering, ceiling tile, pipe, conduit, siding, concrete, etc. This list is not intended to be all inclusive, but descriptive of the types of construction materials that are typically sold in standard lengths, sizes and weights.
- ☑ Removing and returning Owner's furniture and furnishings (e.g. chairs, tables, pictures, etc. but excluding modular furniture, wall or ceiling attached or fastened devices or furnishings, safes or other furniture requiring disassembly).

- ☑ Sealing, windows, and openings with plastic to contain construction dust and debris within the work area.
- ☑ Daily clean-up.
- ☑ Final professional project clean-up.
- ☑ Costs resulting from inadequate supply of building materials, fuel, electricity, or skilled labor.
- ☑ Costs resulting from productivity loss.
- ☑ Working in extreme temperatures (below or above normal) or adverse conditions such as excessive rain, wind, sleet or snow.
- ☑ Differences in project size; complexity and location.
- ☑ All costs for other than discreet items of work specifically required to complete a particular Job Order.

### PRICE VARIATIONS:

- ☑ Contractors may find differences in labor, equipment and material costs due to certain economic factors. Variations in labor cost can also result from labor efficiency, labor restrictions, working conditions and local work rules. Variations in material costs can also result from the quantity of material purchased, the existing relationship with suppliers, and because the materials have been discontinued or have become obsolete.
- ☑ While diligent effort is made to provide accurate and reliable up-to-date pricing, it is the responsibility of the Contractor to review and analyze the unit prices, and to calculate their Adjustment Factors accordingly, prior to bidding.

### GENERAL COSTS:

- ☑ This list is not exhaustive and is intended to provide general examples of cost items to be included in the Contractor's Adjustment Factor as defined in the Contract.
- ☑ The only compensation to be paid to a Contractor for the unit price tasks will be:

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Published Unit Price	X	Installation (or Demolition) Quantity	X	Appropriate Adjustment Factor
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- No additional payments of any kind whatsoever will be made. All costs not included in the unit prices must be part of the Adjustment Factors.

**General Interpretations:**

**WORKING HEIGHT:**

- Typical working height for work other than masonry is up to 14' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for work below 14'.
- Typical working height for masonry work is up to 4' above the finished floor or stationary working surface. The Contractor will not be paid for scaffolding, lifts, or similar equipment for masonry work below 4'.

**FIELD ENGINEERING:**

- Surveying tasks shall be used only when the Owner requests the Contractor to perform topographic surveys, property line surveys or to establish horizontal and vertical controls.

**ASSEMBLIES:**

- Assembly unit prices take precedence over individual component pricing.

**TESTING:**

- Contractor will be paid for testing existing material, as required by the technical specifications and as directed by the Owner (record tests) at the unit price for the appropriate task. The cost of process quality control testing routinely performed by the Contractor is included in the unit prices for the individual tasks.

**MISCELLANEOUS:**

- For the purpose of calculating the quantity of a task, quantities are calculated on a per project basis. The quantity so determined shall be used for the task and all appropriate modifiers, unless the task states otherwise.
- Whenever there are alternative tasks that may be selected to complete work the Contractor shall select the most practical and economical tasks available (e.g. rental of equipment by weeks or months rather than days or painting by roller or spray rather than brush).
- Restricted Working Space is defined as any area with less than 3' vertical or horizontal clearance and includes areas such as crawl spaces, ceiling plenums where the grid is not removed, narrow piping tunnels, and equipment rooms where the space to install the new work is congested as a result of equipment and piping placement that meet these dimensional restrictions. A Restricted Working Space modifier is available for certain mechanical piping and piping accessories tasks and for certain electrical conduit and conduit accessories tasks. Only those tasks with a modifier for Restricted Working Space are eligible for a price adjustment, and then only if the modifier applies to the contemplated tasks. A non pre-priced task will not be allowed because of Restricted Working Space for any CTC task.
- Confined Working Space is defined according to the OSHA definition 29 CFR 1926.21(b)(6)(i): "Any space having limited means of egress, which is subject to accumulation of toxic or flammable contaminants or has an oxygen deficient atmosphere, including, but not limited to, storage tanks, process vessels, bins, boilers, ventilation and exhaust duct, sewers, underground vaults, tunnels, pipelines and open top spaces more than 4 feet in depth such as pits and tubs." The Contractor shall conform to all OSHA and Owner requirements for working in Confined Working Spaces. Required ventilation and air monitoring equipment tasks shall be priced from the CTC.
- Whenever a material, article or piece of equipment is identified in the CTC or in the specifications by reference to manufacturers' or vendors' names,

trade names, catalogue numbers, or make, the identification is intended to establish a standard. Any material, article or equipment of another manufacturer or vendor which performs satisfactorily the duties imposed by the general design may be considered equally acceptable provided that, in the opinion of the Owner, the material, article or equipment so proposed is of equal quality, substance and function. The Contractor shall not provide, furnish or install any proposed material, article or equipment without the prior written approval of the Owner. The burden of proof and all costs related thereto concerning the "or equal" nature of the substitute item, whether approved or disapproved, shall be borne by the Contractor.

**SPECIFICATIONS:**

- Specifications for tasks shall be interpreted as follows: All labor, material, equipment, spare parts, services, and work required by a specification shall be considered part of the unit price, unless the task description or technical specifications state otherwise.

**Useful Information:**

**UNIT OF MEASURE DEFINITIONS:**

**ACR** – Acre, **BAG** – Bag, **BBL** – Barrel, **BCY** - Bank (In-place) Cubic Yards, **BF** - Board Foot, **BOX** - Box (each), **BTU** - British Thermal Unit, **C** - One Hundred, **CCF** - One Hundred Cubic Feet, **CCY** - Compacted Cubic Yards, **CF** - Cubic Foot, **CFM** - Cubic Feet Per Minute, **CI** – Cubic Inch, **CLF** - One Hundred Linear Feet, **CSF** - One Hundred Square Feet, **CSY** - Hundred Square Yards, **CWT** - Hundred Weight, **CY** - Cubic Yard, **CYM** - Cubic Yard Mile, **DAY** – Day, **DRM** - Drum (each), **EA** – Each, **FLR** - Floor (Per Floor), **FT** – Foot, **GAL** – Gallon, **GSF** - Ground Square Foot, **HR** – Hour, **HWT** - Hundred Carton Weight, **HYR** – Half Year, **IN** – Inch, **JOB** – Job, **LAN** – Lane, **LB** – Pound, **LCY** -

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Loose (Excavated) Cubic Yards, **LF** - Linear Foot, **LFD** - Linear Feet Per Day, **LIT** – Liter, **LOT** – Lot, **MBF** - One Thousand Board Feet, **MBH** - One Thousand British Thermal Units, **MCF** – One Thousand Cubic Feet, **MF3** - One Thousand Cubic Feet Per Minute, **MGL** – One Thousand Gallons, **MI** – Mile, **MLF** - One Thousand Linear Feet, **MO** – Month, **MSF** - One Thousand Square Feet, **MSY** - One Thousand Square Yards, **MT** – Metric Ton, **MTK** – Metric Ton Kilometer, **M2** – Square Meter, **M3K** – Cubic Meter Kilometer, **NTE** – Note, **OPN** – Opening, **OUT** - Outlet or Output (each), **OZ** – Ounce, **PKG** – Package, **PNT** – Point, **PR** – Pair, **QT** – Quart, **ROL** - Roll (each), **ROM** – Room, **ROW** – Row, **RSR** - Riser (Per Rise), **SEA** – Seat, **SET** – Set, **SF** - Square Foot, **SHT** – Sheet, **SI** - Square Inch, **STP** - Stop (each), **SQ** - Square or One Hundred Square Feet, **SY** - Square Yard, **SYI** – Inches per Square Yard, **TNM** - Tons per Mile, **TON** – Ton, **TRK** – Truck Load, **UI** - United Inch, **UNT** – Unit, **VLF** - Vertical Linear Foot, **WK** – Week, **YD** – Yard, **YR** – Year

**MATERIAL WEIGHTS:**

**EARTHEN MATERIAL**

- The following engineering values for establishing shrink/swell factors shall be used unless otherwise directed by the Owner.

Material	Material Weight (Lbs Per CY)		
	In-place (Bank)	Loose (Excavated Materials)	Compacted
Earth, Common (Average)	3170	2536	3520
Sand	2880	2590	3240
Earth, Rock Mix. (75% E/ 25% R)	3380	2370	3720
Earth, Rock Mix. (50% E/50% R)	3750	2710	4000
Earth, Rock Mix. (25% E/ 75% R)	4120	3140	3680
Gravel (Average)	3280	2730	3570
Limestone	4380	2690	3220
Riprap Rock (Average)	4500	2610	3150
Granite	4540	2640	3170

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Basalt	4950	3020	3640
Clay	3220	2150	3570
Gneiss	4550	2720	3180

**1 Ton =** 2000 Pounds = 907.185 Kilograms

**1 Yard =** 3 Feet = 0.9144 Meters

### BULK FACTORS FOR DEMOLITION:

The following bulk factors shall be used to calculate the volume of demolished material to be transported from the project site.

- **Asphalt** = 1.25
- **Concrete** = 1.40

### CONVERSIONS:

**1 Acre =** 43,560 Square Feet = 4046.8 Square Meters

**1 Board Foot =** 12" x 12" x 1" = 144 Cubic Inches

**1 Centimeter =** 0.3937 Inches = 0.0328 Feet

**1 Cubic Foot =** 0.03704 Cubic Yards = 0.02832 Cubic Meters

**1 Cubic Meter =** 1.3080 Cubic Yards = 35.3147 Cubic Feet

**1 Cubic Yard =** 27 Cubic Feet = 0.7646 Cubic Meters

**1 Foot =** 12 Inches = 0.3048 Meters

**1 Inch =** 2.54 Centimeters = 0.0254 Meters

**1 Kilogram =** 2.2046 Pounds

**1 Kilometer =** 0.6214 Miles = 3280 Feet

**1 Meter =** 100 Centimeters = 3.2808 Feet

**1 Mile =** 5280 Feet = 1.6093 Kilometers

**1 Pound =** 0.4536 Kilograms

**1 Square Foot =** 144 Square Inches = .0929 Square Meters

**1 Square Meter =** 1.1960 Square Yards = 10.7639 Square Feet

**1 Square Yard =** 9 Square Feet = 0.8361 Square Meters

Sheet Metal Thickness (inches)				
Gage No.	Steel Sheet	Galvanized Steel Sheet	Stainless Steel Sheet	Aluminum Sheet
10	.135	.138	.141	
11	.120	.123	.125	
12	.105	.108	.109	
13	.090	.093	.094	.072
14	.075	.079	.078	.064
15	.067	.071	.070	.057
16	.060	.064	.063	.051
17	.054	.058	.056	.045
18	.048	.052	.050	.040
19	.042	.046	.044	.036
20	.036	.040	.038	.032
21	.033	.037	.034	.028
22	.030	.034	.031	.025
23	.027	.031	.028	.023
24	.024	.028	.025	.020
25	.021	.025	.022	.018
26	.018	.022	.019	.017

### STANDARD GEOMETRY:

#### Circle

- Circumference =  $2 \pi \text{ radius} = \pi \text{ diameter}$
- Area =  $\pi \text{ radius}^2 = \pi (\text{diameter}^2 / 4)$

#### Cylinder

- Volume =  $(\pi \text{ radius}^2) \text{height}$
- Surface Area =  $2 \pi \text{ radius}^2 + (2 \pi \text{ radius}) \text{height}$

#### Sphere

- Volume =  $(4 \pi \text{ radius}^3) / 3$
- Surface Area =  $4 \pi \text{ radius}^2$

**$\pi = 3.14159$**

#### United Inch

- The industry standard for measuring windows is the United Inch or UI. The UI is determined by adding the width and the height in inches.

## TRADEMARKS

- ☑ Gordian JOC Solution, JOC Complete Solution, JOC Complete Solution Plus, PROGEN, eGordian, ezIQC, Construction Task Catalog, Catalog of Construction Tasks, DMAP, The Standard for Job Order Contracting and 6 Phase Development and Implementation Process are either registered trademarks or trademarks of The Gordian Group, Inc. The names of actual companies and products mentioned herein may be the trademarks of their respective owners

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 01 General Requirements

### 01 20 Price And Payment Procedures <sup>(01)</sup>

#### 01 22 Unit Prices <sup>(01 20)</sup>

Note: Provide digital copies of photographs.

#### 01 22 16 Unit Price Payment <sup>(01 22)</sup>

##### 01 22 16 00-0001 Reimbursable Fees <sup>(01 22 16)</sup>

Note: Reimbursable fees include but are not limited to permits, special inspections, special insurance, additional warranties, tolls, expedited shipping costs, etc, which are not included in a task or an Adjustment Factor as explained in the Contract or The Construction Task Catalog®.

01 22 16 00-0002	EA	Reimbursable Fees.....	1.00
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Note: Reimbursable Fees will be paid to the contractor for eligible costs. The base cost of the Reimbursable Fee is \$1.00. Insert the appropriate quantity to adjust the base cost to the actual Reimbursable Fee (e.g. quantity of 125 = \$125.00 Reimbursable Fee). If there are multiple Reimbursable Fees, list each one separately and add a comment in the "note" block to identify the Reimbursable Fee (e.g. sidewalk closure, road cut, various permits, extended warranty, expedited shipping costs, etc.). A copy of each receipt shall be submitted with the Price Proposal.

#### 01 22 20 Wage Rates <sup>(01 22)</sup>

##### 01 22 20 00-0001 Minimum Charge <sup>(01 22 20)</sup>

Note: Use item exclusively for projects when the sum of line items is less than the minimum charge per occurrence. Item should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Item quantity is 1, unless approved by owner.

01 22 20 00-0002	EA	Carpenter Minimum Charge.....	931.62
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0003	EA	Carpet, Linoleum Minimum Charge .....	884.02
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0004	EA	Cement Mason Minimum Charge .....	624.16
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0005	EA	Drywall Finisher Minimum Charge .....	795.71
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0006	EA	Drywall Installer Minimum Charge .....	897.30
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0007	EA	Electrician Minimum Charge .....	1,009.73
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0008	EA	Glazier Minimum Charge .....	775.06
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0009	EA	Insulator Minimum Charge .....	942.04
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0010	EA	Laborer Minimum Charge .....	577.64
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0011	EA	Landscape Maintenance Worker Minimum Charge .....	702.64
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0012	EA	Ornamental Metal Worker Minimum Charge .....	830.77
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0013	EA	Painter, Ordinary Minimum Charge .....	695.44
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0014	EA	Plasterer Minimum Charge .....	830.00
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0015	EA	Plumber Minimum Charge .....	1,135.53
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0016	EA	Roofer, Tile/Slate Minimum Charge .....	879.99
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0017	EA	Roofer, Composite Built-Up Minimum Charge .....	837.89
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0018	EA	Sheet Metal Worker Minimum Charge .....	1,057.86
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			
01 22 20 00-0019	EA	Sprinkler Installer Minimum Charge .....	1,086.59
Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.			

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 20</b>	<b>Price And Payment Procedures</b>
	<b>01 22</b>	<b>Unit Prices</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0020	EA		Tile Layer (Floor) Minimum Charge .....749.73 Note: This task should not be used in conjunction with any other tasks utilizing this labor trade, unless approved by owner. Task quantity is 1, unless approved by owner.		
<b>01 22 20 00-0021</b>			<b>Local Labor/Wage Rates</b> <small>(01 22 20)</small> Note: Welders receive the rate prescribed for the craft performing the operation to which the welding is incidental.		
01 22 20 00-0022	HR		Asbestos Removal Worker .....60.37 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 3.02 <i>For Apprentice, Deduct</i> -12.07		
01 22 20 00-0023	HR		Insulator .....114.63 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 5.73 <i>For Apprentice, Deduct</i> -22.93		
01 22 20 00-0024	HR		Boilermaker .....93.03 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 4.65 <i>For Apprentice, Deduct</i> -18.61		
01 22 20 00-0025	HR		Brick Layer .....89.31 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 4.47 <i>For Apprentice, Deduct</i> -17.86		
01 22 20 00-0026	HR		Carpenter .....100.83 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 5.04 <i>For Apprentice, Deduct</i> -20.17		
01 22 20 00-0027	HR		Carpet, Linoleum .....98.00 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 4.90 <i>For Apprentice, Deduct</i> -19.60		
01 22 20 00-0028	HR		Cement Mason .....71.77 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 3.59 <i>For Apprentice, Deduct</i> -14.35		
01 22 20 00-0029	HR		Drywall Finisher .....90.09 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 4.50 <i>For Apprentice, Deduct</i> -18.02		
01 22 20 00-0030	HR		Electrician .....107.47 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 5.37 <i>For Apprentice, Deduct</i> -21.49		
01 22 20 00-0031	HR		Equipment Operator, Heavy (Crane) .....91.28 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 4.56 <i>For Apprentice, Deduct</i> -18.26		
01 22 20 00-0032	HR		Equipment Operator, Medium (Bulldozer) .....86.40 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 4.32 <i>For Apprentice, Deduct</i> -17.28		
01 22 20 00-0033	HR		Equipment Operator, Light (Backhoe, Skid-Steer Loader) .....81.37 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 4.07 <i>For Apprentice, Deduct</i> -16.27		
01 22 20 00-0034	HR		Glazier .....90.63 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 4.53 <i>For Apprentice, Deduct</i> -18.13		
01 22 20 00-0035	HR		Laborer .....69.08 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0036	HR		Lather .....93.41 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 4.67 <i>For Apprentice, Deduct</i> -18.68		
01 22 20 00-0037	HR		Marble Setter .....96.55 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 4.83 <i>For Apprentice, Deduct</i> -19.31		
01 22 20 00-0038	HR		Millwright .....92.35 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 4.62 <i>For Apprentice, Deduct</i> -18.47		
01 22 20 00-0039	HR		Mold Removal Worker .....72.97 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 3.65 <i>For Apprentice, Deduct</i> -14.59		
01 22 20 00-0040	HR		Painter, Ordinary .....80.68 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 4.03 <i>For Apprentice, Deduct</i> -16.14		
01 22 20 00-0041	HR		Painter, Structural Steel .....82.57 Note: For tasks not included in the Construction Task Catalog® and as directed by owner only. <i>For Foreman, Add</i> 4.13 <i>For Apprentice, Deduct</i> -16.51		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0042 HR Paperhanger.....	80.68	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.03	
For Apprentice, Deduct	-16.14	
01 22 20 00-0043 HR Pile Drivers.....	100.42	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.02	
For Apprentice, Deduct	-20.08	
01 22 20 00-0044 HR Plasterer.....	91.25	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.56	
For Apprentice, Deduct	-18.25	
01 22 20 00-0045 HR Plumber.....	116.94	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.85	
For Apprentice, Deduct	-23.39	
01 22 20 00-0046 HR Powderman.....	72.78	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	3.64	
For Apprentice, Deduct	-14.56	
01 22 20 00-0047 HR Rodman (Reinforcing)/Ornamental Steel Worker.....	82.10	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.11	
For Apprentice, Deduct	-16.42	
01 22 20 00-0048 HR Roofer, Composite.....	85.99	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.30	
For Apprentice, Deduct	-17.20	
01 22 20 00-0049 HR Roofer, Metal.....	144.43	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0050 HR Roofer, Tile/Slate.....	91.25	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.56	
For Apprentice, Deduct	-18.25	
01 22 20 00-0051 HR Sheet Metal Worker.....	119.73	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.99	
For Apprentice, Deduct	-23.95	
01 22 20 00-0052 HR Sprinkler Installer.....	110.82	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.54	
For Apprentice, Deduct	-22.16	
01 22 20 00-0053 HR Steam / Pipe Fitter.....	116.94	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	5.85	
For Apprentice, Deduct	-23.39	
01 22 20 00-0054 HR Stone Mason.....	89.31	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.47	
For Apprentice, Deduct	-17.86	
01 22 20 00-0055 HR Structural Steel Worker.....	85.10	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.26	
For Apprentice, Deduct	-17.02	
01 22 20 00-0056 HR Tile Layer.....	81.22	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.06	
For Apprentice, Deduct	-16.24	
01 22 20 00-0057 HR Terrazzo Worker.....	87.24	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	4.36	
For Apprentice, Deduct	-17.45	
01 22 20 00-0058 HR Truck Driver, Light.....	72.06	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	3.60	
For Apprentice, Deduct	-14.41	
01 22 20 00-0059 HR Truck Driver, Heavy.....	72.89	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
For Foreman, Add	3.64	
For Apprentice, Deduct	-14.58	
01 22 20 00-0060 HR Class I Diver.....	186.36	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0061 HR Class III Diver Tender.....	114.72	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
01 22 20 00-0062 HR D1 Certified Welder.....	92.01	
Note: For tasks not included in the Construction Task Catalog® and as directed by owner only.		
<b>01 22 20 00-0063 Rates For Services (01 22 20)</b>		
01 22 20 00-0064 HR Watchman/Guard, Unarmed.....	27.51	
01 22 20 00-0065 HR Watchman/Guard, Armed.....	44.36	
01 22 20 00-0066 HR OSHA Testing.....	71.25	
01 22 20 00-0067 HR Surveyor.....	75.00	
01 22 20 00-0068 HR On-Site Certified Materials Testing Technician.....	43.35	
01 22 20 00-0069 HR Certified Industrial Hygienist.....	125.88	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 20</b>	<b>Price And Payment Procedures</b>
	<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 20 00-0070 MI Mileage For Professional Services (Engineering, Surveying, Etcetera).....	0.54	
Note: For use only when the Owner directs the contractor to use personnel whose base of operations is more than 100 miles from the site. Quantity shall be miles that exceed 100.		
<b>01 22 20 00-0071 Rates For Architectural And Engineering Services (01 22 20)</b>		
Note: For preparation of contract documents, structural and/or design drawings, special investigating requirements or services outside required architectural and engineering services.		
01 22 20 00-0072 HR Principal Architect.....	200.00	
01 22 20 00-0073 HR Senior Architect.....	177.00	
01 22 20 00-0074 HR Architect.....	133.00	
01 22 20 00-0075 HR Principal Engineer.....	200.00	
01 22 20 00-0076 HR Senior Engineer.....	150.00	
01 22 20 00-0077 HR Engineer.....	120.00	
01 22 20 00-0078 HR Draftsman.....	70.00	
01 22 20 00-0079 HR Project Manager.....	112.50	
<b>01 22 20 00-0080 Rates For Traffic Control (01 22 20)</b>		
01 22 20 00-0081 DAY Pilot Vehicle With Driver.....	829.40	
Note: Includes CB and radio, "Follow Me" sign, "Wait For Pilot Car" signs on barricades where required.		
01 22 20 00-0082 HR Flagperson For Traffic Control.....	69.08	
<b>01 22 23 Equipment Usage (01 22)</b>		
Note: Includes fuel costs unless otherwise stated. These tasks shall be used for owned, leased or rented equipment. See CSI section 01 71 13 00-0000 for equipment delivery, pickup, mobilization and demobilization.		
<b>01 22 23 00-0001 Aerial Equipment (01 22 23)</b>		
<b>01 22 23 00-0002 Manlifts (01 22 23 00-0001)</b>		
Note: Excludes operator, delivery, set-up, and removal.		
<b>01 22 23 00-0003 Telescoping Boom Manlifts (01 22 23 00-0002)</b>		
<b>01 22 23 00-0004 Engine Powered, Telescoping Boom Manlifts (01 22 23 00-0003)</b>		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two- or four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0005 DAY 40' Engine Powered, Telescoping Boom Manlift.....	443.76	
01 22 23 00-0006 WK 40' Engine Powered, Telescoping Boom Manlift.....	1,116.57	
01 22 23 00-0007 MO 40' Engine Powered, Telescoping Boom Manlift.....	2,505.12	
01 22 23 00-0008 DAY 60' Engine Powered, Telescoping Boom Manlift.....	651.33	
01 22 23 00-0009 WK 60' Engine Powered, Telescoping Boom Manlift.....	1,553.18	
01 22 23 00-0010 MO 60' Engine Powered, Telescoping Boom Manlift.....	3,399.81	
01 22 23 00-0011 DAY 80' Engine Powered, Telescoping Boom Manlift.....	1,266.88	
01 22 23 00-0012 WK 80' Engine Powered, Telescoping Boom Manlift.....	3,070.57	
01 22 23 00-0013 MO 80' Engine Powered, Telescoping Boom Manlift.....	6,441.75	
01 22 23 00-0014 DAY 110' Engine Powered, Telescoping Boom Manlift.....	1,803.69	
01 22 23 00-0015 WK 110' Engine Powered, Telescoping Boom Manlift.....	4,343.17	
01 22 23 00-0016 MO 110' Engine Powered, Telescoping Boom Manlift.....	10,822.14	
01 22 23 00-0017 DAY 120' Engine Powered, Telescoping Boom Manlift.....	2,197.35	
01 22 23 00-0018 WK 120' Engine Powered, Telescoping Boom Manlift.....	5,604.32	
01 22 23 00-0019 MO 120' Engine Powered, Telescoping Boom Manlift.....	12,740.35	
<b>01 22 23 00-0020 Articulating (Up/Over) Boom Manlifts (01 22 23 00-0002)</b>		
<b>01 22 23 00-0021 Engine Powered, Articulating (Up/Over) Boom Manlifts (01 22 23 00-0020)</b>		
Note: Diesel or dual fuel (gasoline or liquid propane gas). Two- or four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0022 DAY 34' Engine Powered, Articulating (Up/Over) Boom Manlift.....	303.82	
01 22 23 00-0023 WK 34' Engine Powered, Articulating (Up/Over) Boom Manlift.....	762.31	
01 22 23 00-0024 MO 34' Engine Powered, Articulating (Up/Over) Boom Manlift.....	1,833.97	
01 22 23 00-0025 DAY 45' Engine Powered, Articulating (Up/Over) Boom Manlift.....	386.68	
01 22 23 00-0026 WK 45' Engine Powered, Articulating (Up/Over) Boom Manlift.....	845.17	
01 22 23 00-0027 MO 45' Engine Powered, Articulating (Up/Over) Boom Manlift.....	2,098.02	
01 22 23 00-0028 DAY 60' Engine Powered, Articulating (Up/Over) Boom Manlift.....	497.16	
01 22 23 00-0029 WK 60' Engine Powered, Articulating (Up/Over) Boom Manlift.....	1,148.99	
01 22 23 00-0030 MO 60' Engine Powered, Articulating (Up/Over) Boom Manlift.....	2,568.66	
01 22 23 00-0031 DAY 80' Engine Powered, Articulating (Up/Over) Boom Manlift.....	867.27	
01 22 23 00-0032 WK 80' Engine Powered, Articulating (Up/Over) Boom Manlift.....	2,043.88	
01 22 23 00-0033 MO 80' Engine Powered, Articulating (Up/Over) Boom Manlift.....	4,970.50	
01 22 23 00-0034 DAY 125' Engine Powered, Articulating (Up/Over) Boom Manlift.....	1,684.82	
01 22 23 00-0035 WK 125' Engine Powered, Articulating (Up/Over) Boom Manlift.....	3,977.28	
01 22 23 00-0036 MO 125' Engine Powered, Articulating (Up/Over) Boom Manlift.....	9,722.24	
<b>01 22 23 00-0037 Electric, Articulating (Up/Over) Boom Manlifts (01 22 23 00-0020)</b>		
Note: For use on paved surfaces.		
01 22 23 00-0038 DAY 30' Electric, Articulating (Up/Over) Boom Manlift.....	303.82	
01 22 23 00-0039 WK 30' Electric, Articulating (Up/Over) Boom Manlift.....	762.31	
01 22 23 00-0040 MO 30' Electric, Articulating (Up/Over) Boom Manlift.....	1,833.97	
01 22 23 00-0041 DAY 35' Electric, Articulating (Up/Over) Boom Manlift.....	303.82	
01 22 23 00-0042 WK 35' Electric, Articulating (Up/Over) Boom Manlift.....	762.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0043 MO 35' Electric, Articulating (Up/Over) Boom Manlift .....	1,833.97	
01 22 23 00-0044 DAY 40' Electric, Articulating (Up/Over) Boom Manlift .....	375.63	
01 22 23 00-0045 WK 40' Electric, Articulating (Up/Over) Boom Manlift .....	812.03	
01 22 23 00-0046 MO 40' Electric, Articulating (Up/Over) Boom Manlift .....	2,016.26	
01 22 23 00-0047 DAY 45' Electric, Articulating (Up/Over) Boom Manlift .....	375.63	
01 22 23 00-0048 WK 45' Electric, Articulating (Up/Over) Boom Manlift .....	812.03	
01 22 23 00-0049 MO 45' Electric, Articulating (Up/Over) Boom Manlift .....	2,016.26	
 <b>01 22 23 00-0050 Platform Lifts</b> <small>(01 22 23 00-0001)</small> Note: Excludes operator, delivery, set-up, and removal.		
 <b>01 22 23 00-0051 Electric, Scissor Platform Lifts</b> <small>(01 22 23 00-0050)</small> Note: For use on paved surfaces.		
01 22 23 00-0052 DAY 17' Electric, Scissor Platform Lift.....	189.06	
01 22 23 00-0053 WK 17' Electric, Scissor Platform Lift.....	378.11	
01 22 23 00-0054 MO 17' Electric, Scissor Platform Lift.....	773.42	
01 22 23 00-0055 DAY 20' Electric, Scissor Platform Lift.....	206.24	
01 22 23 00-0056 WK 20' Electric, Scissor Platform Lift.....	412.49	
01 22 23 00-0057 MO 20' Electric, Scissor Platform Lift.....	824.98	
01 22 23 00-0058 DAY 25' Electric, Scissor Platform Lift.....	266.40	
01 22 23 00-0059 WK 25' Electric, Scissor Platform Lift.....	532.80	
01 22 23 00-0060 MO 25' Electric, Scissor Platform Lift.....	1,142.94	
01 22 23 00-0061 DAY 30' Electric, Scissor Platform Lift.....	343.74	
01 22 23 00-0062 WK 30' Electric, Scissor Platform Lift.....	678.89	
01 22 23 00-0063 MO 30' Electric, Scissor Platform Lift.....	1,503.86	
01 22 23 00-0064 DAY 33' Electric, Scissor Platform Lift.....	369.52	
01 22 23 00-0065 WK 33' Electric, Scissor Platform Lift.....	721.85	
01 22 23 00-0066 MO 33' Electric, Scissor Platform Lift.....	1,632.76	
01 22 23 00-0067 DAY 40' Electric, Scissor Platform Lift.....	481.24	
01 22 23 00-0068 WK 40' Electric, Scissor Platform Lift.....	1,194.50	
01 22 23 00-0069 MO 40' Electric, Scissor Platform Lift.....	3,325.68	
 <b>01 22 23 00-0070 Engine Powered, Scissor Platform Lifts</b> <small>(01 22 23 00-0050)</small> Note: Diesel or dual fuel (gasoline or liquid propane gas). Two- or four-wheel drive. For use on unpaved or paved surfaces.		
01 22 23 00-0071 DAY 25' Engine Powered, Scissor Platform Lift.....	386.71	
01 22 23 00-0072 WK 25' Engine Powered, Scissor Platform Lift.....	756.23	
01 22 23 00-0073 MO 25' Engine Powered, Scissor Platform Lift.....	1,847.60	
01 22 23 00-0074 DAY 33' Engine Powered, Scissor Platform Lift.....	395.30	
01 22 23 00-0075 WK 33' Engine Powered, Scissor Platform Lift.....	902.32	
01 22 23 00-0076 MO 33' Engine Powered, Scissor Platform Lift.....	1,976.50	
01 22 23 00-0077 DAY 40' Engine Powered, Scissor Platform Lift.....	438.27	
01 22 23 00-0078 WK 40' Engine Powered, Scissor Platform Lift.....	1,005.44	
01 22 23 00-0079 MO 40' Engine Powered, Scissor Platform Lift.....	2,234.31	
01 22 23 00-0080 DAY 43' Engine Powered, Scissor Platform Lift.....	464.05	
01 22 23 00-0081 WK 43' Engine Powered, Scissor Platform Lift.....	1,082.78	
01 22 23 00-0082 MO 43' Engine Powered, Scissor Platform Lift.....	2,663.98	
01 22 23 00-0083 DAY 50' Engine Powered, Scissor Platform Lift.....	867.94	
01 22 23 00-0084 WK 50' Engine Powered, Scissor Platform Lift.....	1,907.76	
01 22 23 00-0085 MO 50' Engine Powered, Scissor Platform Lift.....	4,692.05	
 <b>01 22 23 00-0086 Personnel Lifts</b> <small>(01 22 23 00-0001)</small> Note: Includes delivery to job site and pick-up when complete. Excludes operator. For use on paved surfaces.		
01 22 23 00-0087 DAY 24', Push-Type, Electric Single Man Personnel Lift .....	181.73	
01 22 23 00-0088 WK 24', Push-Type, Electric Single Man Personnel Lift .....	514.90	
01 22 23 00-0089 MO 24', Push-Type, Electric Single Man Personnel Lift .....	1,039.89	
01 22 23 00-0090 DAY 30', Push-Type, Electric Single Man Personnel Lift .....	252.40	
01 22 23 00-0091 WK 30', Push-Type, Electric Single Man Personnel Lift .....	535.09	
01 22 23 00-0092 MO 30', Push-Type, Electric Single Man Personnel Lift .....	1,049.98	
01 22 23 00-0093 DAY 36', Push-Type, Electric Single Man Personnel Lift .....	424.03	
01 22 23 00-0094 WK 36', Push-Type, Electric Single Man Personnel Lift .....	1,029.79	
01 22 23 00-0095 MO 36', Push-Type, Electric Single Man Personnel Lift .....	3,008.61	
01 22 23 00-0096 DAY 40', Push-Type, Electric Single Man Personnel Lift .....	454.32	
01 22 23 00-0097 WK 40', Push-Type, Electric Single Man Personnel Lift .....	1,130.75	
01 22 23 00-0098 MO 40', Push-Type, Electric Single Man Personnel Lift .....	3,402.35	
01 22 23 00-0099 DAY 15', Self-Propelled, Electric Single Man Personnel Lift .....	242.30	
01 22 23 00-0100 WK 15', Self-Propelled, Electric Single Man Personnel Lift .....	484.61	
01 22 23 00-0101 MO 15', Self-Propelled, Electric Single Man Personnel Lift .....	969.22	
01 22 23 00-0102 DAY 20', Self-Propelled, Electric Single Man Personnel Lift .....	242.30	
01 22 23 00-0103 WK 20', Self-Propelled, Electric Single Man Personnel Lift .....	484.61	
01 22 23 00-0104 MO 20', Self-Propelled, Electric Single Man Personnel Lift .....	1,007.58	
 <b>01 22 23 00-0105 Bucket Trucks</b> <small>(01 22 23 00-0001)</small> Note: Includes full-time operator, delivery, and removal.		
01 22 23 00-0106 DAY 29' Bucket Truck With Full-Time Operator .....	1,133.10	
<i>For Equipment Without Operator, Deduct</i>	<i>-583.10</i>	
01 22 23 00-0107 WK 29' Bucket Truck With Full-Time Operator .....	4,565.51	
<i>For Equipment Without Operator, Deduct</i>	<i>-2,915.51</i>	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0108 MO 29' Bucket Truck With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	16,766.84 -12,566.84	
01 22 23 00-0109 DAY 48' Bucket Truck With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,383.10 -583.10	
01 22 23 00-0110 WK 48' Bucket Truck With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,315.51 -2,915.51	
01 22 23 00-0111 MO 48' Bucket Truck With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	18,066.84 -12,566.84	
01 22 23 00-0112 DAY 62' Bucket Truck With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,783.10 -583.10	
01 22 23 00-0113 WK 62' Bucket Truck With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	6,215.51 -2,915.51	
01 22 23 00-0114 MO 62' Bucket Truck With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	21,566.84 -12,566.84	
01 22 23 00-0115 DAY 85' Bucket Truck With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	2,083.10 -583.10	
01 22 23 00-0116 WK 85' Bucket Truck With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	7,115.51 -2,915.51	
01 22 23 00-0117 MO 85' Bucket Truck With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	24,066.84 -12,566.84	
<b>01 22 23 00-0118 Air Equipment</b> <small>(01 22 23)</small>		
<b>01 22 23 00-0119 Air Compressors</b> <small>(01 22 23 00-0118)</small>		
Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0120 DAY 100 CFM Diesel Powered Portable Air Compressor .....	150.63	
01 22 23 00-0121 WK 100 CFM Diesel Powered Portable Air Compressor .....	451.89	
01 22 23 00-0122 MO 100 CFM Diesel Powered Portable Air Compressor .....	1,255.25	
01 22 23 00-0123 DAY 130 CFM Diesel Powered Portable Air Compressor .....	180.76	
01 22 23 00-0124 WK 130 CFM Diesel Powered Portable Air Compressor .....	532.23	
01 22 23 00-0125 MO 130 CFM Diesel Powered Portable Air Compressor .....	1,506.30	
01 22 23 00-0126 DAY 185 CFM Diesel Powered Portable Air Compressor .....	241.01	
01 22 23 00-0127 WK 185 CFM Diesel Powered Portable Air Compressor .....	542.27	
01 22 23 00-0128 MO 185 CFM Diesel Powered Portable Air Compressor .....	1,195.00	
01 22 23 00-0129 DAY 375 CFM Diesel Powered Portable Air Compressor .....	341.43	
01 22 23 00-0130 WK 375 CFM Diesel Powered Portable Air Compressor .....	863.61	
01 22 23 00-0131 MO 375 CFM Diesel Powered Portable Air Compressor .....	2,058.61	
01 22 23 00-0132 DAY 600 CFM Diesel Powered Portable Air Compressor .....	759.18	
01 22 23 00-0133 WK 600 CFM Diesel Powered Portable Air Compressor .....	1,827.64	
01 22 23 00-0134 MO 600 CFM Diesel Powered Portable Air Compressor .....	4,555.05	
01 22 23 00-0135 DAY 750 CFM Diesel Powered Portable Air Compressor .....	913.82	
01 22 23 00-0136 WK 750 CFM Diesel Powered Portable Air Compressor .....	2,249.41	
01 22 23 00-0137 MO 750 CFM Diesel Powered Portable Air Compressor .....	5,523.10	
01 22 23 00-0138 DAY 825 CFM Diesel Powered Portable Air Compressor .....	913.82	
01 22 23 00-0139 WK 825 CFM Diesel Powered Portable Air Compressor .....	2,249.41	
01 22 23 00-0140 MO 825 CFM Diesel Powered Portable Air Compressor .....	5,523.10	
01 22 23 00-0141 DAY 1,300 CFM Diesel Powered Portable Air Compressor .....	1,064.45	
01 22 23 00-0142 WK 1,300 CFM Diesel Powered Portable Air Compressor .....	2,385.98	
01 22 23 00-0143 MO 1,300 CFM Diesel Powered Portable Air Compressor .....	6,362.61	
01 22 23 00-0144 DAY 1,600 CFM Diesel Powered Portable Air Compressor .....	1,325.54	
01 22 23 00-0145 WK 1,600 CFM Diesel Powered Portable Air Compressor .....	2,982.47	
01 22 23 00-0146 MO 1,600 CFM Diesel Powered Portable Air Compressor .....	7,953.26	
<b>01 22 23 00-0147 Negative Air Machines</b> <small>(01 22 23 00-0118)</small>		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0148 DAY Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And HEPA Filter .....	106.76	
01 22 23 00-0149 WK Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And HEPA Filter .....	438.47	
01 22 23 00-0150 MO Up To 2,000 CFM Portable Negative Air Machine With Pre-Filter And HEPA Filter .....	1,324.95	
01 22 23 00-0151 EA Replacement HEPA Filter, 99.99% Efficient @ 0.3 Micron For Negative Air Machine .....	212.62	
Note: Required if over 800 hours operation.		
01 22 23 00-0152 LF Discharge Flexible Duct For Negative Air Machine.....	1.23	
<b>01 22 23 00-0153 Portable Air Scrubbers</b> <small>(01 22 23 00-0118)</small>		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0154 DAY 200 to 1,000 CFM Portable Air Scrubber .....	86.25	
01 22 23 00-0155 WK 200 to 1,000 CFM Portable Air Scrubber .....	358.52	
01 22 23 00-0156 MO 200 to 1,000 CFM Portable Air Scrubber .....	992.44	
01 22 23 00-0157 DAY >1,000 to 2,000 CFM Portable Air Scrubber .....	109.12	
01 22 23 00-0158 WK >1,000 to 2,000 CFM Portable Air Scrubber .....	452.05	
01 22 23 00-0159 MO >1,000 to 2,000 CFM Portable Air Scrubber .....	1,324.98	
<b>01 22 23 00-0160 Compaction And Paving Equipment</b> <small>(01 22 23)</small>		
<b>01 22 23 00-0161 Pavers And Rollers</b> <small>(01 22 23 00-0160)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
<b>01 22 23 00-0162 Pavers</b> <small>(01 22 23 00-0161)</small>		
01 22 23 00-0163 DAY 10' Wide Paving Machine With Full-Time Operator .....	3,147.19	
<i>For Equipment Without Operator, Deduct</i>		
	-691.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0164 WK 10' Wide Paving Machine With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	13,279.94 -3,455.90	
01 22 23 00-0165 MO 10' Wide Paving Machine With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	49,982.56 -14,896.10	
<b>01 22 23 00-0166 Ride-On Self-Propelled, Rubber Tire Rollers (01 22 23 00-0161)</b>		
01 22 23 00-0167 DAY 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,104.43 -691.18	
01 22 23 00-0168 WK 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,705.80 -3,455.90	
01 22 23 00-0169 MO 10 To 12 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	18,289.10 -14,896.10	
01 22 23 00-0170 DAY 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,263.93 -691.18	
01 22 23 00-0171 WK 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,891.90 -3,455.90	
01 22 23 00-0172 MO 15 Ton, Ride-On Self Propelled, 9 Wheel Rubber-Tire Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	20,079.85 -14,896.10	
01 22 23 00-0173 DAY 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,271.18 -691.18	
01 22 23 00-0174 WK 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,420.65 -3,455.90	
01 22 23 00-0175 MO 30 Ton, Ride-On Self Propelled, 11 Wheel Rubber-Tire Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	20,427.85 -14,896.10	
<b>01 22 23 00-0176 Ride-On Self-Propelled, Padfoot Rollers (01 22 23 00-0161)</b>		
01 22 23 00-0177 DAY 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,169.68 -691.18	
01 22 23 00-0178 WK 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,782.65 -3,455.90	
01 22 23 00-0179 MO 5 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	18,731.35 -14,896.10	
01 22 23 00-0180 DAY 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,474.18 -691.18	
01 22 23 00-0181 WK 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,398.90 -3,455.90	
01 22 23 00-0182 MO 8 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	20,674.35 -14,896.10	
01 22 23 00-0183 DAY 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,546.68 -691.18	
01 22 23 00-0184 WK 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,855.65 -3,455.90	
01 22 23 00-0185 MO 10 To 12 Ton, Single Padfoot Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	21,950.35 -14,896.10	
<b>01 22 23 00-0186 Towed, Padfoot Rollers (01 22 23 00-0161)</b>		
01 22 23 00-0187 DAY 48" Wide, 40" Diameter, Towed Padfoot Roller .....	137.75	
01 22 23 00-0188 WK 48" Wide, 40" Diameter, Towed Padfoot Roller .....	398.75	
01 22 23 00-0189 MO 48" Wide, 40" Diameter, Towed Padfoot Roller .....	1,174.50	
01 22 23 00-0190 DAY 60" Wide, 60" Diameter, Towed Padfoot Roller .....	174.00	
01 22 23 00-0191 WK 60" Wide, 60" Diameter, Towed Padfoot Roller .....	485.75	
01 22 23 00-0192 MO 60" Wide, 60" Diameter, Towed Padfoot Roller .....	2,066.25	
<b>01 22 23 00-0193 Static Rollers (01 22 23 00-0161)</b>		
01 22 23 00-0194 DAY 5 Ton, 2 Drum Articulated Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,205.93 -691.18	
01 22 23 00-0195 WK 5 Ton, 2 Drum Articulated Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,094.40 -3,455.90	
01 22 23 00-0196 MO 5 Ton, 2 Drum Articulated Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	19,753.60 -14,896.10	
01 22 23 00-0197 DAY 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,365.43 -691.18	
01 22 23 00-0198 WK 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,529.40 -3,455.90	
01 22 23 00-0199 MO 8 To 10 Ton, 2 Drum Articulated Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	20,957.10 -14,896.10	
<b>01 22 23 00-0200 Ride-On Self-Propelled, Smooth Drum Vibratory Rollers (01 22 23 00-0161)</b>		
01 22 23 00-0201 DAY 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,155.18 -691.18	
01 22 23 00-0202 WK 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,826.15 -3,455.90	
01 22 23 00-0203 MO 5 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	18,521.10 -14,896.10	
01 22 23 00-0204 DAY 8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,249.43 -691.18	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 20</b>	<b>Price And Payment Procedures</b>
	<b>01 22</b>	<b>Unit Prices</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0205	WK		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,101.65 -3,455.90	
01 22 23 00-0206	MO		8 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	19,238.85 -14,896.10	
01 22 23 00-0207	DAY		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,437.93 -691.18	
01 22 23 00-0208	WK		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	5,652.65 -3,455.90	
01 22 23 00-0209	MO		11 To 12 Ton, Single Smooth Drum, Ride-On Self-Propelled Vibratory Roller With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	20,696.10 -14,896.10	
<b>01 22 23 00-0210 Steel Roadway Plates</b> <small>(01 22 23 00-0160)</small>					
Note: 3 day minimum. Excludes delivery. See CSI section 01 71 13 00-0001 for material delivery on truck.					
01 22 23 00-0211	EA		Mobilization of Steel Roadway Plates..... Note: Mobilization for each site location.	365.74	
01 22 23 00-0212	EA		Place And Remove Steel Roadway Plates .....	42.44	
01 22 23 00-0213	DAY		1" x 4' x 8' Steel Plate .....	18.75	
01 22 23 00-0214	WK		1" x 4' x 8' Steel Plate .....	44.27	
01 22 23 00-0215	MO		1" x 4' x 8' Steel Plate .....	58.26	
01 22 23 00-0216	DAY		1" x 4' x 10' Steel Plate .....	25.00	
01 22 23 00-0217	WK		1" x 4' x 10' Steel Plate .....	56.25	
01 22 23 00-0218	MO		1" x 4' x 10' Steel Plate .....	68.75	
01 22 23 00-0219	DAY		1" x 5' x 10' Steel Plate .....	26.04	
01 22 23 00-0220	WK		1" x 5' x 10' Steel Plate .....	58.85	
01 22 23 00-0221	MO		1" x 5' x 10' Steel Plate .....	156.24	
01 22 23 00-0222	DAY		1" x 6' x 8' Steel Plate .....	16.67	
01 22 23 00-0223	WK		1" x 6' x 8' Steel Plate .....	37.50	
01 22 23 00-0224	MO		1" x 6' x 8' Steel Plate .....	99.99	
01 22 23 00-0225	DAY		1" x 6' x 10' Steel Plate .....	31.25	
01 22 23 00-0226	WK		1" x 6' x 10' Steel Plate .....	41.14	
01 22 23 00-0227	MO		1" x 6' x 10' Steel Plate .....	109.89	
01 22 23 00-0228	DAY		1" x 6' x 12' Steel Plate .....	43.75	
01 22 23 00-0229	WK		1" x 6' x 12' Steel Plate .....	55.99	
01 22 23 00-0230	MO		1" x 6' x 12' Steel Plate .....	151.55	
01 22 23 00-0231	DAY		1" x 8' x 10' Steel Plate .....	27.60	
01 22 23 00-0232	WK		1" x 8' x 10' Steel Plate .....	61.98	
01 22 23 00-0233	MO		1" x 8' x 10' Steel Plate .....	165.09	
01 22 23 00-0234	DAY		1" x 8' x 12' Steel Plate .....	50.00	
01 22 23 00-0235	WK		1" x 8' x 12' Steel Plate .....	61.98	
01 22 23 00-0236	MO		1" x 8' x 12' Steel Plate .....	299.98	
01 22 23 00-0237	DAY		1" x 8' x 16' Steel Plate .....	66.66	
01 22 23 00-0238	WK		1" x 8' x 16' Steel Plate .....	149.99	
01 22 23 00-0239	MO		1" x 8' x 16' Steel Plate .....	399.97	
01 22 23 00-0240	LF		Cold Mix For Temporary Ramp Base, 6" At Edge Of Trench Plate.....	1.70	0.85
01 22 23 00-0241	EA		Remove And Reset Steel Roadway Plate.....	23.57	
<b>01 22 23 00-0242 Street Sweepers</b> <small>(01 22 23 00-0160)</small>					
Note: Includes full-time operator. Excludes delivery, set-up, and removal.					
01 22 23 00-0243	DAY		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	919.05 -650.99	
01 22 23 00-0244	WK		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,317.19 -3,254.96	
01 22 23 00-0245	MO		8' Road Broom, Self Propelled Street Sweeper With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	17,814.47 -14,029.98	
01 22 23 00-0246	DAY		Self-Propelled Street Sweeper With Hopper And Full-Time Operator..... Note: Truck with main and gutter brooms, elevator, debris hopper and water tank. <i>For Equipment Without Operator, Deduct</i>	1,558.16 -650.99	
01 22 23 00-0247	WK		Self-Propelled Street Sweeper With Hopper And Full-Time Operator..... Note: Truck with main and gutter brooms, elevator, debris hopper and water tank. <i>For Equipment Without Operator, Deduct</i>	6,888.65 -3,254.96	
01 22 23 00-0248	MO		Self-Propelled Street Sweeper With Hopper And Full-Time Operator..... Note: Truck with main and gutter brooms, elevator, debris hopper and water tank. <i>For Equipment Without Operator, Deduct</i>	26,997.74 -14,029.98	
<b>01 22 23 00-0249 Earthmoving Equipment</b> <small>(01 22 23)</small>					
<b>01 22 23 00-0250 Skid-Steer Loaders</b> <small>(01 22 23 00-0249)</small>					
Note: Includes full-time operator and combination bucket and dozer blade attachments. Add extra attachments where necessary. Excludes delivery, set-up, and removal.					
01 22 23 00-0251	DAY		700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	869.41 -650.99	
01 22 23 00-0252	WK		700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	3,827.98 -3,254.96	
01 22 23 00-0253	MO		700 LB Capacity, 36" Wide, Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	15,409.97 -14,029.98	
01 22 23 00-0254	DAY		1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	926.99 -650.99	
01 22 23 00-0255	WK		1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	3,932.16 -3,254.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0256 MO 1,500 LB Capacity, 60" Wide, Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	15,638.44 -14,029.98	
01 22 23 00-0257 DAY 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	943.44 -650.99	
01 22 23 00-0258 WK 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,082.04 -3,254.96	
01 22 23 00-0259 MO 2,400 LB Capacity, 72" Wide, Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	16,035.99 -14,029.98	
01 22 23 00-0260 DAY 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,007.41 -650.99	
01 22 23 00-0261 WK 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,292.24 -3,254.96	
01 22 23 00-0262 MO 2,500 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	16,730.55 -14,029.98	
01 22 23 00-0263 DAY 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,117.08 -650.99	
01 22 23 00-0264 WK 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,708.06 -3,254.96	
01 22 23 00-0265 MO 3,000 LB Capacity, 78" Wide, Tracked Skid-Steer Loader With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	17,754.12 -14,029.98	
01 22 23 00-0266 DAY Hydraulic Hammer Attachment For Skid-Steer Loaders.....	182.78	
01 22 23 00-0267 WK Hydraulic Hammer Attachment For Skid-Steer Loaders.....	607.74	
01 22 23 00-0268 MO Hydraulic Hammer Attachment For Skid-Steer Loaders.....	1,617.60	
01 22 23 00-0269 DAY Forklift Attachment For Skid-Steer Loaders.....	39.30	
01 22 23 00-0270 WK Forklift Attachment For Skid-Steer Loaders.....	105.10	
01 22 23 00-0271 MO Forklift Attachment For Skid-Steer Loaders.....	297.02	
01 22 23 00-0272 DAY Backhoe Attachment For Skid-Steer Loaders.....	86.82	
01 22 23 00-0273 WK Backhoe Attachment For Skid-Steer Loaders.....	208.37	
01 22 23 00-0274 MO Backhoe Attachment For Skid-Steer Loaders.....	518.18	
01 22 23 00-0275 DAY Broom Attachment For Skid-Steer Loaders.....	85.91	
01 22 23 00-0276 WK Broom Attachment For Skid-Steer Loaders.....	233.04	
01 22 23 00-0277 MO Broom Attachment For Skid-Steer Loaders.....	616.88	
01 22 23 00-0278 DAY Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders.....	74.94	
01 22 23 00-0279 WK Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders.....	206.54	
01 22 23 00-0280 MO Auger Attachment (Excludes Bits And Extensions) For Skid-Steer Loaders.....	563.88	
01 22 23 00-0281 DAY Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	20.65	
01 22 23 00-0282 WK Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	54.04	
01 22 23 00-0283 MO Up To 18" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	158.94	
01 22 23 00-0284 DAY >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	27.81	
01 22 23 00-0285 WK >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	69.14	
01 22 23 00-0286 MO >18" To 48" Diameter, 4' Length, Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	206.62	
01 22 23 00-0287 DAY Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	40.52	
01 22 23 00-0288 WK Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	123.18	
01 22 23 00-0289 MO Up To 24" Diameter, 4' Length, Rock Tip Auger Bit For Skid-Steer Mounted Augers (Excludes Auger).....	365.56	
01 22 23 00-0290 DAY 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger).....	8.23	
01 22 23 00-0291 WK 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger).....	19.19	
01 22 23 00-0292 MO 2' Length, Auger Bit Extension For Skid-Steer Mounted Augers (Excludes Auger).....	51.18	
<b>01 22 23 00-0293</b> <b>Bulldozers</b> <small>(01 22 23 00-0249)</small> Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0294 DAY 70 HP, D3 Bulldozer With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,020.28 -691.18	
01 22 23 00-0295 WK 70 HP, D3 Bulldozer With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	4,753.69 -3,455.90	
01 22 23 00-0296 MO 70 HP, D3 Bulldozer With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	18,745.99 -14,896.10	
01 22 23 00-0297 DAY 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,175.52 -691.18	
01 22 23 00-0298 WK 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	5,380.84 -3,455.90	
01 22 23 00-0299 MO 90 To 105 HP, D4 Or D5 Bulldozer With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	20,670.94 -14,896.10	
01 22 23 00-0300 DAY 140 HP, D6 Bulldozer With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,616.40 -691.18	
01 22 23 00-0301 WK 140 HP, D6 Bulldozer With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	7,144.34 -3,455.90	
01 22 23 00-0302 MO 140 HP, D6 Bulldozer With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	25,949.01 -14,896.10	
01 22 23 00-0303 DAY 200 HP, D7 Bulldozer With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	2,007.59 -691.18	
01 22 23 00-0304 WK 200 HP, D7 Bulldozer With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	8,715.35 -3,455.90	
01 22 23 00-0305 MO 200 HP, D7 Bulldozer With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	30,668.23 -14,896.10	
01 22 23 00-0306 DAY 335 HP, D8 Bulldozer With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	2,473.31 -691.18	
01 22 23 00-0307 WK 335 HP, D8 Bulldozer With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	10,578.20 -3,455.90	
01 22 23 00-0308 MO 335 HP, D8 Bulldozer With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	36,256.78 -14,896.10	
01 22 23 00-0309 DAY 460 HP, D9 Bulldozer With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	2,734.11 -691.18	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0310 WK 460 HP, D9 Bulldozer With Full-Time Operator .....	11,615.18	
<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
01 22 23 00-0311 MO 460 HP, D9 Bulldozer With Full-Time Operator .....	39,361.53	
<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
<b>01 22 23 00-0312 Motor Scraper</b> <small>(01 22 23 00-0249)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0313 DAY 11 CY Motor Scraper-Hauler With Full-Time Operator .....	2,017.74	
<i>For Equipment Without Operator, Deduct</i>	-691.18	
01 22 23 00-0314 WK 11 CY Motor Scraper-Hauler With Full-Time Operator .....	8,762.12	
<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
01 22 23 00-0315 MO 11 CY Motor Scraper-Hauler With Full-Time Operator .....	30,796.60	
<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
01 22 23 00-0316 DAY 18 CY Motor Scraper-Hauler With Full-Time Operator .....	2,553.81	
<i>For Equipment Without Operator, Deduct</i>	-691.18	
01 22 23 00-0317 WK 18 CY Motor Scraper-Hauler With Full-Time Operator .....	10,906.42	
<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
01 22 23 00-0318 MO 18 CY Motor Scraper-Hauler With Full-Time Operator .....	37,247.66	
<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
01 22 23 00-0319 DAY 24 CY Motor Scraper-Hauler With Full-Time Operator .....	3,071.71	
<i>For Equipment Without Operator, Deduct</i>	-691.18	
01 22 23 00-0320 WK 24 CY Motor Scraper-Hauler With Full-Time Operator .....	12,968.94	
<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
01 22 23 00-0321 MO 24 CY Motor Scraper-Hauler With Full-Time Operator .....	43,426.14	
<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
<b>01 22 23 00-0322 Hydraulic Excavators</b> <small>(01 22 23 00-0249)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0323 DAY 3/8 CY Hydraulic Excavator With Full-Time Operator .....	1,041.64	
<i>For Equipment Without Operator, Deduct</i>	-691.18	
01 22 23 00-0324 WK 3/8 CY Hydraulic Excavator With Full-Time Operator .....	4,695.49	
<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
01 22 23 00-0325 MO 3/8 CY Hydraulic Excavator With Full-Time Operator .....	19,049.70	
<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
01 22 23 00-0326 DAY 1/2 CY Hydraulic Excavator With Full-Time Operator .....	1,140.29	
<i>For Equipment Without Operator, Deduct</i>	-691.18	
01 22 23 00-0327 WK 1/2 CY Hydraulic Excavator With Full-Time Operator .....	5,130.32	
<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
01 22 23 00-0328 MO 1/2 CY Hydraulic Excavator With Full-Time Operator .....	20,789.02	
<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
01 22 23 00-0329 DAY 5/8 CY Hydraulic Excavator With Full-Time Operator .....	1,171.44	
<i>For Equipment Without Operator, Deduct</i>	-691.18	
01 22 23 00-0330 WK 5/8 CY Hydraulic Excavator With Full-Time Operator .....	5,292.57	
<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
01 22 23 00-0331 MO 5/8 CY Hydraulic Excavator With Full-Time Operator .....	21,074.58	
<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
01 22 23 00-0332 DAY 3/4 CY Hydraulic Excavator With Full-Time Operator .....	1,203.89	
<i>For Equipment Without Operator, Deduct</i>	-691.18	
01 22 23 00-0333 WK 3/4 CY Hydraulic Excavator With Full-Time Operator .....	5,441.84	
<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
01 22 23 00-0334 MO 3/4 CY Hydraulic Excavator With Full-Time Operator .....	21,360.14	
<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
01 22 23 00-0335 DAY 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator .....	1,229.85	
<i>For Equipment Without Operator, Deduct</i>	-691.18	
01 22 23 00-0336 WK 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator .....	5,597.60	
<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
01 22 23 00-0337 MO 7/8 To 1 CY Hydraulic Excavator With Full-Time Operator .....	21,645.70	
<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
01 22 23 00-0338 DAY 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator .....	1,580.31	
<i>For Equipment Without Operator, Deduct</i>	-691.18	
01 22 23 00-0339 WK 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator .....	6,992.95	
<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
01 22 23 00-0340 MO 1-1/8 To 1-1/4 CY Hydraulic Excavator With Full-Time Operator .....	25,507.25	
<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
01 22 23 00-0341 DAY 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator .....	1,632.23	
<i>For Equipment Without Operator, Deduct</i>	-691.18	
01 22 23 00-0342 WK 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator .....	7,220.10	
<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
01 22 23 00-0343 MO 1-3/8 To 1-1/2 CY Hydraulic Excavator With Full-Time Operator .....	26,188.70	
<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
01 22 23 00-0344 DAY 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator .....	1,729.58	
<i>For Equipment Without Operator, Deduct</i>	-691.18	
01 22 23 00-0345 WK 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator .....	7,609.50	
<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
01 22 23 00-0346 MO 1-5/8 To 1-7/8 CY Hydraulic Excavator With Full-Time Operator .....	27,356.90	
<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
01 22 23 00-0347 DAY 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator .....	1,839.91	
<i>For Equipment Without Operator, Deduct</i>	-691.18	
01 22 23 00-0348 WK 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator .....	8,044.33	
<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
01 22 23 00-0349 MO 2 To 2-3/8 CY Hydraulic Excavator With Full-Time Operator .....	28,654.90	
<i>For Equipment Without Operator, Deduct</i>	-14,896.10	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0350 DAY 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	1,872.36 -691.18	
01 22 23 00-0351 WK 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	8,174.13 -3,455.90	
01 22 23 00-0352 MO 2-1/2 To 2-7/8 CY Hydraulic Excavator With Full-Time Operator ..... <i>For Equipment Without Operator, Deduct</i>	29,044.30 -14,896.10	
01 22 23 00-0353 DAY 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	2,183.88 -691.18	
01 22 23 00-0354 WK 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	9,426.70 -3,455.90	
01 22 23 00-0355 MO 3 To 3-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	32,808.50 -14,896.10	
01 22 23 00-0356 DAY 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	2,631.69 -691.18	
01 22 23 00-0357 WK 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	11,204.96 -3,455.90	
01 22 23 00-0358 MO 4 To 5-3/4 CY Hydraulic Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	38,130.30 -14,896.10	
01 22 23 00-0359 DAY Thumbs Or Grapple Attachment For Hydraulic Excavators .....	90.86	
01 22 23 00-0360 WK Thumbs Or Grapple Attachment For Hydraulic Excavators .....	350.46	
01 22 23 00-0361 MO Thumbs Or Grapple Attachment For Hydraulic Excavators .....	1,038.40	
01 22 23 00-0362 DAY 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	402.38	
01 22 23 00-0363 WK 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,064.36	
01 22 23 00-0364 MO 1,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,978.91	
01 22 23 00-0365 DAY 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	623.04	
01 22 23 00-0366 WK 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	1,590.05	
01 22 23 00-0367 MO 1,500 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	4,134.13	
01 22 23 00-0368 DAY 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	869.66	
01 22 23 00-0369 WK 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	2,342.89	
01 22 23 00-0370 MO 3,000 Ft-Lb Hydraulic Hammer Attachment For Hydraulic Excavators.....	6,567.88	
01 22 23 00-0371 DAY 24" Compaction Wheel Attachment For Hydraulic Excavators .....	181.72	
01 22 23 00-0372 WK 24" Compaction Wheel Attachment For Hydraulic Excavators .....	726.88	
01 22 23 00-0373 MO 24" Compaction Wheel Attachment For Hydraulic Excavators .....	2,180.64	
01 22 23 00-0374 DAY 36" Compaction Wheel Attachment For Hydraulic Excavators .....	259.60	
01 22 23 00-0375 WK 36" Compaction Wheel Attachment For Hydraulic Excavators .....	1,038.40	
01 22 23 00-0376 MO 36" Compaction Wheel Attachment For Hydraulic Excavators .....	3,115.20	
01 22 23 00-0377 DAY 48" Compaction Wheel Attachment For Hydraulic Excavators .....	285.56	
01 22 23 00-0378 WK 48" Compaction Wheel Attachment For Hydraulic Excavators .....	1,129.26	
01 22 23 00-0379 MO 48" Compaction Wheel Attachment For Hydraulic Excavators .....	3,374.80	
 <b>01 22 23 00-0380 Mini-Excavators</b> <small>(01 22 23 00-02-49)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0381 DAY 2,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	963.76 -691.18	
01 22 23 00-0382 WK 2,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,228.21 -3,455.90	
01 22 23 00-0383 MO 2,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	16,596.48 -14,896.10	
01 22 23 00-0384 DAY 3,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	970.25 -691.18	
01 22 23 00-0385 WK 3,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,247.68 -3,455.90	
01 22 23 00-0386 MO 3,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	17,005.35 -14,896.10	
01 22 23 00-0387 DAY 6,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,002.70 -691.18	
01 22 23 00-0388 WK 6,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,338.54 -3,455.90	
01 22 23 00-0389 MO 6,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	17,063.76 -14,896.10	
01 22 23 00-0390 DAY 7,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,015.68 -691.18	
01 22 23 00-0391 WK 7,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,383.97 -3,455.90	
01 22 23 00-0392 MO 7,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	17,089.72 -14,896.10	
01 22 23 00-0393 DAY 9,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,093.56 -691.18	
01 22 23 00-0394 WK 9,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,448.87 -3,455.90	
01 22 23 00-0395 MO 9,500 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	17,842.56 -14,896.10	
01 22 23 00-0396 DAY 11,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	1,100.05 -691.18	
01 22 23 00-0397 WK 11,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	4,773.37 -3,455.90	
01 22 23 00-0398 MO 11,000 LB Mini-Excavator With Full-Time Operator..... <i>For Equipment Without Operator, Deduct</i>	17,875.01 -14,896.10	
 <b>01 22 23 00-0399 Road Graders</b> <small>(01 22 23 00-02-49)</small>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0400 DAY 60 HP Road Grader With Full-Time Operator .....	1,442.41	
For Equipment Without Operator, Deduct .....	-691.18	
01 22 23 00-0401 WK 60 HP Road Grader With Full-Time Operator .....	5,488.07	
For Equipment Without Operator, Deduct .....	-3,455.90	
01 22 23 00-0402 MO 60 HP Road Grader With Full-Time Operator .....	20,973.36	
For Equipment Without Operator, Deduct .....	-14,896.10	
01 22 23 00-0403 DAY 80 HP Road Grader With Full-Time Operator .....	1,663.93	
For Equipment Without Operator, Deduct .....	-691.18	
01 22 23 00-0404 WK 80 HP Road Grader With Full-Time Operator .....	6,104.47	
For Equipment Without Operator, Deduct .....	-3,455.90	
01 22 23 00-0405 MO 80 HP Road Grader With Full-Time Operator .....	22,841.81	
For Equipment Without Operator, Deduct .....	-14,896.10	
01 22 23 00-0406 DAY 130 HP Road Grader With Full-Time Operator .....	1,143.93	
For Equipment Without Operator, Deduct .....	-691.18	
01 22 23 00-0407 WK 130 HP Road Grader With Full-Time Operator .....	5,266.91	
For Equipment Without Operator, Deduct .....	-3,455.90	
01 22 23 00-0408 MO 130 HP Road Grader With Full-Time Operator .....	21,368.08	
For Equipment Without Operator, Deduct .....	-14,896.10	
<b>01 22 23 00-0409 Loader-Backhoes With Standard Bucket</b> <small>(01 22 23 00-0249)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0410 DAY 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator .....	1,084.80	
For Equipment Without Operator, Deduct .....	-691.18	
01 22 23 00-0411 WK 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator .....	4,390.76	
For Equipment Without Operator, Deduct .....	-3,455.90	
01 22 23 00-0412 MO 1/2 To 5/8 CY, 65 HP, Loader-Backhoe With Standard Bucket And Full-Time Operator .....	17,096.18	
For Equipment Without Operator, Deduct .....	-14,896.10	
01 22 23 00-0413 DAY 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator .....	1,126.98	
For Equipment Without Operator, Deduct .....	-691.18	
01 22 23 00-0414 WK 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator .....	4,538.37	
For Equipment Without Operator, Deduct .....	-3,455.90	
01 22 23 00-0415 MO 1 CY, 24" Bucket, 14'-4" Deep, 75 HP, Loader-Backhoe With Full-Time Operator .....	17,995.89	
For Equipment Without Operator, Deduct .....	-14,896.10	
01 22 23 00-0416 DAY 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator .....	1,192.00	
For Equipment Without Operator, Deduct .....	-691.18	
01 22 23 00-0417 WK 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator .....	4,700.03	
For Equipment Without Operator, Deduct .....	-3,455.90	
01 22 23 00-0418 MO 1-1/2 CY, 24" Bucket, 16'-6" Deep, 90 HP, Loader-Backhoe With Full-Time Operator .....	18,459.80	
For Equipment Without Operator, Deduct .....	-14,896.10	
01 22 23 00-0419 DAY 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator .....	1,481.94	
For Equipment Without Operator, Deduct .....	-691.18	
01 22 23 00-0420 WK 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator .....	5,564.60	
For Equipment Without Operator, Deduct .....	-3,455.90	
01 22 23 00-0421 MO 1-3/4 CY, 30" Bucket, 18'-0" Deep, 112 HP, Loader-Backhoe With Full-Time Operator .....	20,934.01	
For Equipment Without Operator, Deduct .....	-14,896.10	
<b>01 22 23 00-0422 Heavy Duty Construction Loaders</b> <small>(01 22 23 00-0249)</small>		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0423 DAY 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator .....	1,155.93	
For Equipment Without Operator, Deduct .....	-691.18	
01 22 23 00-0424 WK 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator .....	5,293.45	
For Equipment Without Operator, Deduct .....	-3,455.90	
01 22 23 00-0425 MO 2-1/2 CY, 119 HP, Heavy Duty Construction Loader With Full-Time Operator .....	20,401.60	
For Equipment Without Operator, Deduct .....	-14,896.10	
01 22 23 00-0426 DAY 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator .....	1,542.03	
For Equipment Without Operator, Deduct .....	-691.18	
01 22 23 00-0427 WK 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator .....	5,715.30	
For Equipment Without Operator, Deduct .....	-3,455.90	
01 22 23 00-0428 MO 3 CY, 135 HP, Heavy Duty Construction Loader With Full-Time Operator .....	20,616.10	
For Equipment Without Operator, Deduct .....	-14,896.10	
01 22 23 00-0429 DAY 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator .....	1,627.83	
For Equipment Without Operator, Deduct .....	-691.18	
01 22 23 00-0430 WK 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator .....	5,944.10	
For Equipment Without Operator, Deduct .....	-3,455.90	
01 22 23 00-0431 MO 3-1/2 CY, 198 HP, Heavy Duty Construction Loader With Full-Time Operator .....	21,188.10	
For Equipment Without Operator, Deduct .....	-14,896.10	
01 22 23 00-0432 DAY 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator .....	1,863.78	
For Equipment Without Operator, Deduct .....	-691.18	
01 22 23 00-0433 WK 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator .....	6,566.15	
For Equipment Without Operator, Deduct .....	-3,455.90	
01 22 23 00-0434 MO 4-1/2 CY, 215 HP, Heavy Duty Construction Loader With Full-Time Operator .....	22,761.10	
For Equipment Without Operator, Deduct .....	-14,896.10	
01 22 23 00-0435 DAY 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator .....	2,471.53	
For Equipment Without Operator, Deduct .....	-691.18	
01 22 23 00-0436 WK 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator .....	10,563.00	
For Equipment Without Operator, Deduct .....	-3,455.90	
01 22 23 00-0437 MO 7-1/3 CY, 330 HP, Heavy Duty Construction Loader With Full-Time Operator .....	36,203.10	
For Equipment Without Operator, Deduct .....	-14,896.10	
01 22 23 00-0438 DAY 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator .....	6,475.46	
For Equipment Without Operator, Deduct .....	-691.18	
01 22 23 00-0439 WK 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator .....	22,238.75	
For Equipment Without Operator, Deduct .....	-3,455.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0440 MO 13-1/2 CY, 690 HP, Heavy Duty Construction Loader With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	66,084.45	-14,896.10
<b>01 22 23 00-0441 Shoring</b> <small>(01 22 23 00-0249)</small> Note: Includes delivery to job site and pick-up when complete.		
<b>01 22 23 00-0442 Aluminum Hydraulic Shoring</b> <small>(01 22 23 00-0441)</small> Note: Includes delivery to job site and pick-up when complete. Excludes sheeting.		
01 22 23 00-0443 WK 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	58.15	
01 22 23 00-0444 MO 2' Rails, 1 Cylinder, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	171.52	
01 22 23 00-0445 WK Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	78.01	
01 22 23 00-0446 MO Up To 12' Rails, 2 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	230.08	
01 22 23 00-0447 WK Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	144.65	
01 22 23 00-0448 MO Up To 16' Rails, 3 Cylinders, Aluminum Hydraulic Shoring Note: Up to 88" spread width.	426.70	
01 22 23 00-0449 EA Set-up And Removal Of 1 Cylinder Aluminum Hydraulic Shores	21.69	
01 22 23 00-0450 EA Set-up And Removal Of 2 Cylinders Aluminum Hydraulic Shores	34.70	
01 22 23 00-0451 EA Set-up And Removal Of 3 Cylinders Aluminum Hydraulic Shores	57.83	
<b>01 22 23 00-0452 Trench Boxes/Trench Shields</b> <small>(01 22 23 00-0249)</small> Note: Trenching tasks include moving the trench box in excavation as trenching proceeds. Includes delivery to job site and pick-up when complete. For stackable units, combine multiple units for depth required.		
01 22 23 00-0453 WK 4' x 6' Trench Box With Up To 48" Spreaders	155.00	
01 22 23 00-0454 MO 4' x 6' Trench Box With Up To 48" Spreaders	465.00	
01 22 23 00-0455 WK 6' x 6' Trench Box With Up To 48" Spreaders	175.00	
01 22 23 00-0456 MO 6' x 6' Trench Box With Up To 48" Spreaders	525.00	
01 22 23 00-0457 WK 8' x 6' Trench Box With Up To 48" Spreaders	185.00	
01 22 23 00-0458 MO 8' x 6' Trench Box With Up To 48" Spreaders	555.00	
01 22 23 00-0459 WK 4' x 8' Trench Box With Up To 48" Spreaders	170.00	
01 22 23 00-0460 MO 4' x 8' Trench Box With Up To 48" Spreaders	510.00	
01 22 23 00-0461 WK 6' x 8' Trench Box With Up To 48" Spreaders	200.00	
01 22 23 00-0462 MO 6' x 8' Trench Box With Up To 48" Spreaders	600.00	
01 22 23 00-0463 WK 8' x 8' Trench Box With Up To 48" Spreaders	225.00	
01 22 23 00-0464 MO 8' x 8' Trench Box With Up To 48" Spreaders	675.00	
01 22 23 00-0465 WK 4' x 10' Trench Box With Up To 48" Spreaders	190.00	
01 22 23 00-0466 MO 4' x 10' Trench Box With Up To 48" Spreaders	570.00	
01 22 23 00-0467 WK 6' x 10' Trench Box With Up To 48" Spreaders	225.00	
01 22 23 00-0468 MO 6' x 10' Trench Box With Up To 48" Spreaders	675.00	
01 22 23 00-0469 WK 8' x 10' Trench Box With Up To 48" Spreaders	275.00	
01 22 23 00-0470 MO 8' x 10' Trench Box With Up To 48" Spreaders	820.00	
01 22 23 00-0471 WK 4' x 12' Trench Box With Up To 48" Spreaders	225.00	
01 22 23 00-0472 MO 4' x 12' Trench Box With Up To 48" Spreaders	675.00	
01 22 23 00-0473 WK 6' x 12' Trench Box With Up To 48" Spreaders	275.00	
01 22 23 00-0474 MO 6' x 12' Trench Box With Up To 48" Spreaders	825.00	
01 22 23 00-0475 WK 8' x 12' Trench Box With Up To 48" Spreaders	350.00	
01 22 23 00-0476 MO 8' x 12' Trench Box With Up To 48" Spreaders	1,050.00	
01 22 23 00-0477 WK 4' x 14' Trench Box With Up To 48" Spreaders	250.00	
01 22 23 00-0478 MO 4' x 14' Trench Box With Up To 48" Spreaders	750.00	
01 22 23 00-0479 WK 6' x 14' Trench Box With Up To 48" Spreaders	325.00	
01 22 23 00-0480 MO 6' x 14' Trench Box With Up To 48" Spreaders	975.00	
01 22 23 00-0481 WK 8' x 14' Trench Box With Up To 48" Spreaders	400.00	
01 22 23 00-0482 MO 8' x 14' Trench Box With Up To 48" Spreaders	1,200.00	
01 22 23 00-0483 WK 4' x 16' Trench Box With Up To 48" Spreaders	275.00	
01 22 23 00-0484 MO 4' x 16' Trench Box With Up To 48" Spreaders	825.00	
01 22 23 00-0485 WK 6' x 16' Trench Box With Up To 48" Spreaders	375.00	
01 22 23 00-0486 MO 6' x 16' Trench Box With Up To 48" Spreaders	1,125.00	
01 22 23 00-0487 WK 8' x 16' Trench Box With Up To 48" Spreaders	450.00	
01 22 23 00-0488 MO 8' x 16' Trench Box With Up To 48" Spreaders	1,350.00	
01 22 23 00-0489 WK 4' x 20' Trench Box With Up To 48" Spreaders	325.00	
01 22 23 00-0490 MO 4' x 20' Trench Box With Up To 48" Spreaders	975.00	
01 22 23 00-0491 WK 6' x 20' Trench Box With Up To 48" Spreaders	450.00	
01 22 23 00-0492 MO 6' x 20' Trench Box With Up To 48" Spreaders	1,350.00	
01 22 23 00-0493 WK 8' x 20' Trench Box With Up To 48" Spreaders	525.00	
01 22 23 00-0494 MO 8' x 20' Trench Box With Up To 48" Spreaders	1,575.00	
01 22 23 00-0495 WK 4' x 24' Trench Box With Up To 48" Spreaders	450.00	
01 22 23 00-0496 MO 4' x 24' Trench Box With Up To 48" Spreaders	1,350.00	
01 22 23 00-0497 WK 6' x 24' Trench Box With Up To 48" Spreaders	550.00	
01 22 23 00-0498 MO 6' x 24' Trench Box With Up To 48" Spreaders	1,650.00	
01 22 23 00-0499 WK 8' x 24' Trench Box With Up To 48" Spreaders	600.00	
01 22 23 00-0500 MO 8' x 24' Trench Box With Up To 48" Spreaders	1,800.00	
01 22 23 00-0501 WK For Spreaders >48" To 84", Add	15.00	
01 22 23 00-0502 MO For Spreaders >48" To 84", Add	45.00	
01 22 23 00-0503 WK For Spreaders >84" To 120", Add	90.00	
01 22 23 00-0504 MO For Spreaders >84" To 120", Add	270.00	
01 22 23 00-0505 WK For Spreaders >120", Add	190.00	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	01 22 23 00-0506	MO	For Spreaders >120", Add .....	570.00	
	01 22 23 00-0507	WK	8' x 4' Manhole Box.....	236.25	
	01 22 23 00-0508	MO	8' x 4' Manhole Box.....	708.75	
	01 22 23 00-0509	WK	8' x 8' Manhole Box.....	337.50	
	01 22 23 00-0510	MO	8' x 8' Manhole Box.....	1,012.50	
<b>01 22 23 00-0511</b>			<b>Trenchers</b> (01 22 23 00-0249)		
	Note: Includes full-time operator. Excludes delivery, set-up, and removal.				
	01 22 23 00-0512	DAY	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator .....	1,021.84	
			<i>For Equipment Without Operator, Deduct</i>	-691.18	
	01 22 23 00-0513	WK	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator .....	4,582.20	
			<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
	01 22 23 00-0514	MO	4' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator .....	17,996.00	
			<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
	01 22 23 00-0515	DAY	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator .....	1,579.82	
			<i>For Equipment Without Operator, Deduct</i>	-691.18	
	01 22 23 00-0516	WK	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator .....	6,462.80	
			<i>For Equipment Without Operator, Deduct</i>	-3,455.90	
	01 22 23 00-0517	MO	5' Maximum Trench Depth, Ride-On Trencher With Full-Time Operator .....	23,162.50	
			<i>For Equipment Without Operator, Deduct</i>	-14,896.10	
<b>01 22 23 00-0518</b>			<b>Portable Sediment Tank</b> (01 22 23 00-0249)		
	Note: Includes delivery to job site and pick-up when complete.				
	01 22 23 00-0519	WK	Portable Sediment Tank .....	106.64	
	01 22 23 00-0520	MO	Portable Sediment Tank .....	312.82	
<b>01 22 23 00-0521</b>			<b>Heavy Equipment Mats</b> (01 22 23 00-0249)		
	Note: Rental price per mat. Excludes mobilization and demobilization. See CSI section 01 71 13 00-0001 for equipment delivery, pickup, mobilization and demobilization.				
	01 22 23 00-0522	Day	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat .....	20.00	
	01 22 23 00-0523	WK	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat .....	47.62	
	01 22 23 00-0524	MO	14' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat .....	100.00	
	01 22 23 00-0525	Day	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat .....	21.00	
	01 22 23 00-0526	WK	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat .....	50.00	
	01 22 23 00-0527	MO	16' Width x 8' Length, 6" Thick, 3-Ply Laminated Heavy Equipment Mat .....	105.00	
	01 22 23 00-0528	Day	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	17.00	
	01 22 23 00-0529	WK	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	40.00	
	01 22 23 00-0530	MO	16' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	85.00	
	01 22 23 00-0531	Day	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	19.00	
	01 22 23 00-0532	WK	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	45.00	
	01 22 23 00-0533	MO	18' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	95.00	
	01 22 23 00-0534	Day	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	21.00	
	01 22 23 00-0535	WK	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	50.00	
	01 22 23 00-0536	MO	20' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	105.00	
	01 22 23 00-0537	Day	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	23.00	
	01 22 23 00-0538	WK	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	54.76	
	01 22 23 00-0539	MO	24' Width x 4' Length, 8" Thick Hardwood Timbers, Dragline/Excavator Mat .....	115.00	
	01 22 23 00-0540	Day	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	18.00	
	01 22 23 00-0541	WK	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	50.00	
	01 22 23 00-0542	MO	12' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	90.00	
	01 22 23 00-0543	Day	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	21.00	
	01 22 23 00-0544	WK	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	50.00	
	01 22 23 00-0545	MO	16' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	105.00	
	01 22 23 00-0546	Day	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	25.00	
	01 22 23 00-0547	WK	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	55.00	
	01 22 23 00-0548	MO	20' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	125.00	
	01 22 23 00-0549	Day	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	27.00	
	01 22 23 00-0550	WK	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	64.29	
	01 22 23 00-0551	MO	24' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	135.00	
	01 22 23 00-0552	Day	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	29.00	
	01 22 23 00-0553	WK	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	69.05	
	01 22 23 00-0554	MO	28' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	145.00	
	01 22 23 00-0555	Day	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	30.00	
	01 22 23 00-0556	WK	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	71.43	
	01 22 23 00-0557	MO	30' Width x 4' Length, 12" Thick Hardwood Timbers, Crane Mat .....	150.00	
	01 22 23 00-0558	Day	14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	9.62	
	01 22 23 00-0559	WK	14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	24.05	
	01 22 23 00-0560	MO	14' Width x 8' Length, 2-3/4" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	72.15	
	01 22 23 00-0561	Day	14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	11.50	
	01 22 23 00-0562	WK	14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	28.75	
	01 22 23 00-0563	MO	14' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	86.25	
	01 22 23 00-0564	Day	16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	13.13	
	01 22 23 00-0565	WK	16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	32.83	
	01 22 23 00-0566	MO	16' Width x 8' Length, 3-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	98.50	
	01 22 23 00-0567	Day	14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	14.00	
	01 22 23 00-0568	WK	14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	35.00	
	01 22 23 00-0569	MO	14' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	105.00	
	01 22 23 00-0570	Day	16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	16.00	
	01 22 23 00-0571	WK	16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™) .....	40.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-0572	MO	16' Width x 8' Length, 4-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)		120.00	
01 22 23 00-0573	Day	16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)		18.39	
01 22 23 00-0574	WK	16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)		45.97	
01 22 23 00-0575	MO	16' Width x 8' Length, 5-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)		137.90	
01 22 23 00-0576	Day	24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)		14.15	
01 22 23 00-0577	WK	24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)		35.37	
01 22 23 00-0578	MO	24' Width x 4' Length, 6" Thick, Laminated Heavy Equipment Mat (Emtek™)		106.10	
01 22 23 00-0579	Day	30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)		19.15	
01 22 23 00-0580	WK	30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)		47.88	
01 22 23 00-0581	MO	30' Width x 4' Length, 6-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)		143.65	
01 22 23 00-0582	Day	24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)		16.56	
01 22 23 00-0583	WK	24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)		41.40	
01 22 23 00-0584	MO	24' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)		124.20	
01 22 23 00-0585	Day	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)		27.62	
01 22 23 00-0586	WK	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)		69.05	
01 22 23 00-0587	MO	40' Width x 4' Length, 7-1/2" Thick, Laminated Heavy Equipment Mat (Emtek™)		207.14	
01 22 23 00-0588	Day	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)		29.44	
01 22 23 00-0589	WK	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)		73.60	
01 22 23 00-0590	MO	40' Width x 4' Length, 8" Thick, Laminated Heavy Equipment Mat (Emtek™)		220.80	

**01 22 23 00-0591 Electrical Equipment** (01 22 23)

**01 22 23 00-0592 Tripod Mounted Floodlights** (01 22 23 00-0591)

Note: Includes delivery to job site and pick-up when complete.

01 22 23 00-0593	DAY	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod		63.36	
01 22 23 00-0594	WK	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod		149.90	
01 22 23 00-0595	MO	500 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod		316.81	
01 22 23 00-0596	DAY	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod		63.36	
01 22 23 00-0597	WK	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod		185.45	
01 22 23 00-0598	MO	1,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod		548.62	
01 22 23 00-0599	DAY	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod		71.09	
01 22 23 00-0600	WK	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod		193.18	
01 22 23 00-0601	MO	2,000 Watt, 115 Volt, 2 Lamp, Portable Light Stand With Tripod		471.35	

**01 22 23 00-0602 Trailer Mounted Floodlights** (01 22 23 00-0591)

Note: Includes delivery to job site and pick-up when complete. Excludes operator.

01 22 23 00-0603	DAY	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower		177.72	
01 22 23 00-0604	WK	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower		394.08	
01 22 23 00-0605	MO	4 x 1,000 Watt Floodlights, 30' Telescoping Tower, Diesel Power Trailer Mounted Light Tower		849.97	

**01 22 23 00-0606 Generator Sets** (01 22 23 00-0591)

**01 22 23 00-0607 Portable, Gas Or Diesel Powered Generator Sets** (01 22 23 00-0606)

Note: With 24 hour day-tank. Includes delivery to job site and pick-up when complete. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0714 for reimbursable fuel fees.

01 22 23 00-0608	DAY	3.6 KW, 8 HP Gas Powered Generator Set		46.37	
		For LP Or NG Gas, Add		5.80	
		For >160 To 320 Hours Usage Per Month, Add		23.19	
01 22 23 00-0609	WK	3.6 KW, 8 HP Gas Powered Generator Set		167.15	
		For LP Or NG Gas, Add		20.89	
01 22 23 00-0610	MO	3.6 KW, 8 HP Gas Powered Generator Set		463.71	
		For LP Or NG Gas, Add		57.96	
01 22 23 00-0611	DAY	5 KW, 11 HP Gas Powered Generator Set		65.78	
		For LP Or NG Gas, Add		8.22	
01 22 23 00-0612	WK	5 KW, 11 HP Gas Powered Generator Set		210.29	
		For LP Or NG Gas, Add		26.29	
01 22 23 00-0613	MO	5 KW, 11 HP Gas Powered Generator Set		479.89	
		For LP Or NG Gas, Add		59.99	
01 22 23 00-0614	DAY	6.5 KW, 13 HP Gas Powered Generator Set		84.12	
		For LP Or NG Gas, Add		10.52	
01 22 23 00-0615	WK	6.5 KW, 13 HP Gas Powered Generator Set		226.46	
		For LP Or NG Gas, Add		28.31	
01 22 23 00-0616	MO	6.5 KW, 13 HP Gas Powered Generator Set		625.47	
		For LP Or NG Gas, Add		78.18	
01 22 23 00-0617	DAY	10 KW, 18 HP Gas Powered Generator Set		93.82	
		For LP Or NG Gas, Add		11.73	
01 22 23 00-0618	WK	10 KW, 18 HP Gas Powered Generator Set		253.42	
		For LP Or NG Gas, Add		31.68	
01 22 23 00-0619	MO	10 KW, 18 HP Gas Powered Generator Set		727.92	
		For LP Or NG Gas, Add		90.99	

**01 22 23 00-0620 Towable, Diesel Powered Generator Sets** (01 22 23 00-0606)

Note: Includes 24 hour day-tank on sizes up to 180KW, 40 hour day-tank for sizes greater than 180KW To 300 KW and 1000 gallon for sizes greater than 300KW. Multi-voltage transformer unless stated otherwise, trailer mounted including sound attenuation and control panel. Excludes cables, operator and fuel costs. See CSI section 01 22 23 00-0714 for reimbursable fuel fees.

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0621	DAY		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	193.03	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	96.52	
			<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	193.03	
01 22 23 00-0622	WK		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	504.69	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	252.35	
			<i>For &gt;80 Hours Usage Per Week, Add</i>	504.69	
01 22 23 00-0623	MO		20 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,374.96	
			Note: Fuel consumption: 100% load – 1.6 gallons per hour, 75% load - 1.3 gallons per hour, 50% load - 0.9 gallons per hour.		
			<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	687.48	
			<i>For &gt;320 Hours Usage Per Month, Add</i>	1,374.96	
01 22 23 00-0624	DAY		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	303.09	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	151.55	
			<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	303.09	
01 22 23 00-0625	WK		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	899.48	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	449.74	
			<i>For &gt;80 Hours Usage Per Week, Add</i>	899.48	
01 22 23 00-0626	MO		30 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,857.63	
			Note: Fuel consumption: 100% load – 2.9 gallons per hour, 75% load - 2.4 gallons per hour, 50% load - 1.8 gallons per hour.		
			<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	928.82	
			<i>For &gt;320 Hours Usage Per Month, Add</i>	1,857.63	
01 22 23 00-0627	DAY		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	332.42	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	166.21	
			<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	332.42	
01 22 23 00-0628	WK		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	928.82	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	464.41	
			<i>For &gt;80 Hours Usage Per Week, Add</i>	928.82	
01 22 23 00-0629	MO		40.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,053.17	
			Note: Fuel consumption: 100% load - 4.0 gallons per hour, 75% load - 3.2 gallons per hour, 50% load - 2.3 gallons per hour.		
			<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	1,026.59	
			<i>For &gt;320 Hours Usage Per Month, Add</i>	2,053.17	
01 22 23 00-0630	DAY		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	356.86	
			Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	178.43	
			<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	356.86	
01 22 23 00-0631	WK		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	977.70	
			Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	488.85	
			<i>For &gt;80 Hours Usage Per Week, Add</i>	977.70	
01 22 23 00-0632	MO		55.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,346.48	
			Note: Fuel consumption: 100% load – 4.8 gallons per hour, 75% load - 3.8 gallons per hour, 50% load - 2.9 gallons per hour.		
			<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	1,173.24	
			<i>For &gt;320 Hours Usage Per Month, Add</i>	2,346.48	
01 22 23 00-0633	DAY		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	391.08	
			Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	195.54	
			<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	391.08	
01 22 23 00-0634	WK		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,109.69	
			Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	554.85	
			<i>For &gt;80 Hours Usage Per Week, Add</i>	1,109.69	
01 22 23 00-0635	MO		70.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,639.79	
			Note: Fuel consumption: 100% load – 5.7 gallons per hour, 75% load - 4.3 gallons per hour, 50% load - 3.2 gallons per hour.		
			<i>For &gt;160 To 320 Hours Usage Per Month, Add</i>	1,319.90	
			<i>For &gt;320 Hours Usage Per Month, Add</i>	2,639.79	
01 22 23 00-0636	DAY		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	439.96	
			Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			<i>For &gt;8 To 16 Hours Usage Per Day, Add</i>	219.98	
			<i>For &gt;16 To 24 Hours Usage Per Day, Add</i>	439.96	
01 22 23 00-0637	WK		80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,173.24	
			Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
			<i>For &gt;40 To 80 Hours Usage Per Week, Add</i>	586.62	
			<i>For &gt;80 Hours Usage Per Week, Add</i>	1,173.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0638 MO 80.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,933.10	
Note: Fuel consumption: 100% load – 6.5 gallons per hour, 75% load - 4.9 gallons per hour, 50% load - 3.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,466.55	
For >320 Hours Usage Per Month, Add	2,933.10	
01 22 23 00-0639 DAY 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	454.63	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	227.32	
For >16 To 24 Hours Usage Per Day, Add	454.63	
01 22 23 00-0640 WK 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,222.12	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	611.06	
For >80 Hours Usage Per Week, Add	1,222.12	
01 22 23 00-0641 MO 100.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,324.18	
Note: Fuel consumption: 100% load - 7.4 gallons per hour, 75% load - 5.8 gallons per hour, 50% load - 4.1 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,662.09	
For >320 Hours Usage Per Month, Add	3,324.18	
01 22 23 00-0642 DAY 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	513.29	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	256.65	
For >16 To 24 Hours Usage Per Day, Add	513.29	
01 22 23 00-0643 WK 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,417.66	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	708.83	
For >80 Hours Usage Per Week, Add	1,417.66	
01 22 23 00-0644 MO 120.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	3,813.03	
Note: Fuel consumption: 100% load - 8.7 gallons per hour, 75% load - 6.8 gallons per hour, 50% load - 4.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	1,906.52	
For >320 Hours Usage Per Month, Add	3,813.03	
01 22 23 00-0645 DAY 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	537.74	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	268.87	
For >16 To 24 Hours Usage Per Day, Add	537.74	
01 22 23 00-0646 WK 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,490.99	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	745.50	
For >80 Hours Usage Per Week, Add	1,490.99	
01 22 23 00-0647 MO 140.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,204.11	
Note: Fuel consumption: 100% load - 10.2 gallons per hour, 75% load - 7.9 gallons per hour, 50% load - 5.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,102.06	
For >320 Hours Usage Per Month, Add	4,204.11	
01 22 23 00-0648 DAY 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	562.18	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	281.09	
For >16 To 24 Hours Usage Per Day, Add	562.18	
01 22 23 00-0649 WK 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,613.20	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	806.60	
For >80 Hours Usage Per Week, Add	1,613.20	
01 22 23 00-0650 MO 150.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,399.65	
Note: Fuel consumption: 100% load - 10.9 gallons per hour, 75% load - 8.4 gallons per hour, 50% load - 5.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,199.83	
For >320 Hours Usage Per Month, Add	4,399.65	
01 22 23 00-0651 DAY 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	586.62	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	293.31	
For >16 To 24 Hours Usage Per Day, Add	586.62	
01 22 23 00-0652 WK 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,710.98	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	855.49	
For >80 Hours Usage Per Week, Add	1,710.98	
01 22 23 00-0653 MO 160.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,595.19	
Note: Fuel consumption: 100% load - 11.6 gallons per hour, 75% load - 8.9 gallons per hour, 50% load - 6.2 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,297.60	
For >320 Hours Usage Per Month, Add	4,595.19	
01 22 23 00-0654 DAY 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	586.62	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	293.31	
For >16 To 24 Hours Usage Per Day, Add	586.62	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0655 WK 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,710.98	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	855.49	
For >80 Hours Usage Per Week, Add	1,710.98	
01 22 23 00-0656 MO 175.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	4,595.19	
Note: Fuel consumption: 100% load - 12.7 gallons per hour, 75% load - 9.7 gallons per hour, 50% load - 6.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,297.60	
For >320 Hours Usage Per Month, Add	4,595.19	
01 22 23 00-0657 DAY 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	806.60	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	403.30	
For >16 To 24 Hours Usage Per Day, Add	806.60	
01 22 23 00-0658 WK 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,004.28	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,002.14	
For >80 Hours Usage Per Week, Add	2,004.28	
01 22 23 00-0659 MO 200.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	5,866.20	
Note: Fuel consumption: 100% load - 14.4 gallons per hour, 75% load - 11.0 gallons per hour, 50% load - 7.7 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	2,933.10	
For >320 Hours Usage Per Month, Add	5,866.20	
01 22 23 00-0660 DAY 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	855.49	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	427.75	
For >16 To 24 Hours Usage Per Day, Add	855.49	
01 22 23 00-0661 WK 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,053.17	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,026.59	
For >80 Hours Usage Per Week, Add	2,053.17	
01 22 23 00-0662 MO 250.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,061.74	
Note: Fuel consumption: 100% load - 19.8 gallons per hour, 75% load - 12.3 gallons per hour, 50% load - 8.6 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,030.87	
For >320 Hours Usage Per Month, Add	6,061.74	
01 22 23 00-0663 DAY 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	904.37	
Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	452.19	
For >16 To 24 Hours Usage Per Day, Add	904.37	
01 22 23 00-0664 WK 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,102.06	
Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,051.03	
For >80 Hours Usage Per Week, Add	2,102.06	
01 22 23 00-0665 MO 275.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,257.28	
Note: Fuel consumption: 100% load - 18.0 gallons per hour, 75% load - 13.6 gallons per hour, 50% load - 9.5 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,128.64	
For >320 Hours Usage Per Month, Add	6,257.28	
01 22 23 00-0666 DAY 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	933.70	
Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	466.85	
For >16 To 24 Hours Usage Per Day, Add	933.70	
01 22 23 00-0667 WK 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,248.71	
Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,124.36	
For >80 Hours Usage Per Week, Add	2,248.71	
01 22 23 00-0668 MO 300.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	6,648.36	
Note: Fuel consumption: 100% load - 21.5 gallons per hour, 75% load - 16.1 gallons per hour, 50% load - 11.3 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,324.18	
For >320 Hours Usage Per Month, Add	6,648.36	
01 22 23 00-0669 DAY 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	977.70	
Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	488.85	
For >16 To 24 Hours Usage Per Day, Add	977.70	
01 22 23 00-0670 WK 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,542.02	
Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,271.01	
For >80 Hours Usage Per Week, Add	2,542.02	
01 22 23 00-0671 MO 350.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	7,332.75	
Note: Fuel consumption: 100% load - 25.1 gallons per hour, 75% load - 18.7 gallons per hour, 50% load - 13.1 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,666.38	
For >320 Hours Usage Per Month, Add	7,332.75	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0672 DAY 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	1,143.91	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	571.96	
For >16 To 24 Hours Usage Per Day, Add	1,143.91	
01 22 23 00-0673 WK 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	2,957.54	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,478.77	
For >80 Hours Usage Per Week, Add	2,957.54	
01 22 23 00-0674 MO 400.0 KW, 60 Hertz Towable Diesel Powered Generator Set.....	7,821.60	
Note: Fuel consumption: 100% load - 28.6 gallons per hour, 75% load - 21.3 gallons per hour, 50% load - 14.9 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	3,910.80	
For >320 Hours Usage Per Month, Add	7,821.60	
01 22 23 00-0675 DAY 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	1,466.55	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	733.28	
For >16 To 24 Hours Usage Per Day, Add	1,466.55	
01 22 23 00-0676 WK 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	3,813.03	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	1,906.52	
For >80 Hours Usage Per Week, Add	3,813.03	
01 22 23 00-0677 MO 500.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	8,799.30	
Note: Fuel consumption: 100% load - 35.7 gallons per hour, 75% load - 26.4 gallons per hour, 50% load - 18.5 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	4,399.65	
For >320 Hours Usage Per Month, Add	8,799.30	
01 22 23 00-0678 DAY 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	1,813.63	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	906.82	
For >16 To 24 Hours Usage Per Day, Add	1,813.63	
01 22 23 00-0679 WK 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	4,790.73	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	2,395.37	
For >80 Hours Usage Per Week, Add	4,790.73	
01 22 23 00-0680 MO 640.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	11,732.40	
Note: Fuel consumption: 100% load - 45.6 gallons per hour, 75% load - 33.5 gallons per hour, 50% load - 20.8 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	5,866.20	
For >320 Hours Usage Per Month, Add	11,732.40	
01 22 23 00-0681 DAY 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	1,960.29	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >8 To 16 Hours Usage Per Day, Add	980.15	
For >16 To 24 Hours Usage Per Day, Add	1,960.29	
01 22 23 00-0682 WK 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	4,516.97	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >40 To 80 Hours Usage Per Week, Add	2,258.49	
For >80 Hours Usage Per Week, Add	4,516.97	
01 22 23 00-0683 MO 750.0 KW, 60 Hertz Container Diesel Powered Generator Set.....	13,550.92	
Note: Fuel consumption: 100% load - 53.4 gallons per hour, 75% load - 39.3 gallons per hour, 50% load - 24.4 gallons per hour.		
For >160 To 320 Hours Usage Per Month, Add	6,775.46	
For >320 Hours Usage Per Month, Add	13,550.92	
01 22 23 00-0684 EA Up To 300 KW Generator Set Delivery, Set-Up, Testing And Pick-up.....	756.18	
01 22 23 00-0685 EA 350 To 750 KW Generator Set Delivery, Set-Up, Testing And Pick-up .....	1,219.06	
01 22 23 00-0686 <b>Cabling For Generator Sets</b> <small>(01 22 23 00-0606)</small>		
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0687 DAY #1 Banded Cable, 50' With Camlock Ends For Generator Set .....	21.51	
01 22 23 00-0688 WK #1 Banded Cable, 50' With Camlock Ends For Generator Set .....	37.64	
01 22 23 00-0689 MO #1 Banded Cable, 50' With Camlock Ends For Generator Set .....	112.92	
01 22 23 00-0690 DAY 50', 4/0 Cable With Camlock Ends For Generator Set.....	10.75	
01 22 23 00-0691 WK 50', 4/0 Cable With Camlock Ends For Generator Set.....	31.29	
01 22 23 00-0692 MO 50', 4/0 Cable With Camlock Ends For Generator Set.....	87.02	
01 22 23 00-0693 <b>Resistive Loadbanks For Generator Sets</b> <small>(01 22 23 00-0606)</small>		
Note: Includes delivery to job site and pick-up when complete. See CSI section 01 22 23 00-0714 for reimbursable fuel fees.		
01 22 23 00-0694 DAY 100 KW A/C Resistive Loadbank.....	399.49	
01 22 23 00-0695 WK 100 KW A/C Resistive Loadbank.....	985.97	
01 22 23 00-0696 MO 100 KW A/C Resistive Loadbank.....	2,949.40	
01 22 23 00-0697 DAY 650 KW A/C Resistive Loadbank.....	673.18	
01 22 23 00-0698 WK 650 KW A/C Resistive Loadbank.....	1,800.24	
01 22 23 00-0699 MO 650 KW A/C Resistive Loadbank.....	4,589.84	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 20</b>	<b>Price And Payment Procedures</b>
	<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 22 23 00-0700</b>	<b>Sub-Distribution Panels (Spider Box) For Generator Sets <small>(01 22 23 00-0606)</small></b>	
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0701 DAY	Sub-Distribution Panel (Spider Box) .....	52.80
01 22 23 00-0702 WK	Sub-Distribution Panel (Spider Box) .....	136.88
01 22 23 00-0703 MO	Sub-Distribution Panel (Spider Box) .....	386.19
<b>01 22 23 00-0704</b>	<b>Portable Distribution Panels For Generator Sets <small>(01 22 23 00-0606)</small></b>	
Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0705 DAY	200 Amp Portable Spider Box Feeder Panel .....	117.32
01 22 23 00-0706 WK	200 Amp Portable Spider Box Feeder Panel .....	317.75
01 22 23 00-0707 MO	200 Amp Portable Spider Box Feeder Panel .....	889.71
01 22 23 00-0708 DAY	100 Amp Portable Quad Box Panel .....	95.81
01 22 23 00-0709 WK	100 Amp Portable Quad Box Panel .....	249.31
01 22 23 00-0710 MO	100 Amp Portable Quad Box Panel .....	708.83
01 22 23 00-0711 DAY	200 Amp Portable Quad Box Panel .....	122.21
01 22 23 00-0712 WK	200 Amp Portable Quad Box Panel .....	307.98
01 22 23 00-0713 MO	200 Amp Portable Quad Box Panel .....	835.93
<b>01 22 23 00-0714</b>	<b>Fuel Reimbursement For Generators <small>(01 22 23 00-0606)</small></b>	
01 22 23 00-0715 EA	Fuel Reimbursement For Generators .....	1.00
Note: Purchases made by the contractor for fuel will be reimbursed to the Contractor at the actual cost of the purchase, without mark-up, for which a receipt or bill is received. The Adjustment Factor applied to Reimbursable Fees will be 1.0000. The base cost of the purchase is \$1.00, quantity will adjust cost to actual purchase cost; i.e., quantity of 125 = \$125.00 purchase. If there are multiple purchases, each one shall be listed separately with a comment in the "note" block to identify the purchase.		
<b>01 22 23 00-0716</b>	<b>General Equipment <small>(01 22 23)</small></b>	
<b>01 22 23 00-0717</b>	<b>Jacks And Bracing <small>(01 22 23 00-0716)</small></b>	
Note: Includes delivery to job site and pick-up when complete.		
<b>01 22 23 00-0718</b>	<b>Manual Hydraulic Jacks <small>(01 22 23 00-0717)</small></b>	
01 22 23 00-0719 DAY	12 Ton Manual Hydraulic Bottle Jack .....	1.33
01 22 23 00-0720 WK	12 Ton Manual Hydraulic Bottle Jack .....	6.33
01 22 23 00-0721 MO	12 Ton Manual Hydraulic Bottle Jack .....	22.76
01 22 23 00-0722 DAY	20 Ton Manual Hydraulic Bottle Jack .....	2.33
01 22 23 00-0723 WK	20 Ton Manual Hydraulic Bottle Jack .....	7.33
01 22 23 00-0724 MO	20 Ton Manual Hydraulic Bottle Jack .....	27.76
01 22 23 00-0725 DAY	50 Ton Manual Hydraulic Bottle Jack .....	8.33
01 22 23 00-0726 WK	50 Ton Manual Hydraulic Bottle Jack .....	32.34
01 22 23 00-0727 MO	50 Ton Manual Hydraulic Bottle Jack .....	116.34
01 22 23 00-0728 DAY	100 Ton Manual Hydraulic Bottle Jack .....	11.67
01 22 23 00-0729 WK	100 Ton Manual Hydraulic Bottle Jack .....	46.67
01 22 23 00-0730 MO	100 Ton Manual Hydraulic Bottle Jack .....	168.10
<b>01 22 23 00-0731</b>	<b>Manual Screw Jacks <small>(01 22 23 00-0717)</small></b>	
01 22 23 00-0732 DAY	10 To 20 Ton Manual Screw Jack .....	14.57
01 22 23 00-0733 WK	10 To 20 Ton Manual Screw Jack .....	39.22
01 22 23 00-0734 MO	10 To 20 Ton Manual Screw Jack .....	108.69
<b>01 22 23 00-0735</b>	<b>Pressure Washers <small>(01 22 23 00-0716)</small></b>	
Note: Includes full-time operator, delivery, set-up, and removal.		
01 22 23 00-0736 DAY	2,000 PSI Pressure Washer With Full-Time Operator .....	638.04
For Equipment Without Operator, Deduct		-552.64
01 22 23 00-0737 WK	2,000 PSI Pressure Washer With Full-Time Operator .....	2,979.97
For Equipment Without Operator, Deduct		-2,763.19
01 22 23 00-0738 MO	2,000 PSI Pressure Washer With Full-Time Operator .....	12,462.11
For Equipment Without Operator, Deduct		-11,910.31
01 22 23 00-0739 DAY	2,500 PSI Pressure Washer With Full-Time Operator .....	638.04
For Equipment Without Operator, Deduct		-552.64
01 22 23 00-0740 WK	2,500 PSI Pressure Washer With Full-Time Operator .....	2,979.97
For Equipment Without Operator, Deduct		-2,763.19
01 22 23 00-0741 MO	2,500 PSI Pressure Washer With Full-Time Operator .....	12,462.11
For Equipment Without Operator, Deduct		-11,910.31
01 22 23 00-0742 DAY	3,000 PSI Pressure Washer With Full-Time Operator .....	638.04
For Equipment Without Operator, Deduct		-552.64
01 22 23 00-0743 WK	3,000 PSI Pressure Washer With Full-Time Operator .....	2,979.97
For Equipment Without Operator, Deduct		-2,763.19
01 22 23 00-0744 MO	3,000 PSI Pressure Washer With Full-Time Operator .....	12,462.11
For Equipment Without Operator, Deduct		-11,910.31
01 22 23 00-0745 DAY	3,500 PSI Pressure Washer With Full-Time Operator .....	644.61
For Equipment Without Operator, Deduct		-552.64
01 22 23 00-0746 WK	3,500 PSI Pressure Washer With Full-Time Operator .....	2,999.67
For Equipment Without Operator, Deduct		-2,763.19
01 22 23 00-0747 MO	3,500 PSI Pressure Washer With Full-Time Operator .....	12,514.66
For Equipment Without Operator, Deduct		-11,910.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0748 DAY 4,000 PSI Pressure Washer With Full-Time Operator .....	670.88	
<i>For Equipment Without Operator, Deduct</i>	-552.64	
01 22 23 00-0749 WK 4,000 PSI Pressure Washer With Full-Time Operator .....	3,085.07	
<i>For Equipment Without Operator, Deduct</i>	-2,763.19	
01 22 23 00-0750 MO 4,000 PSI Pressure Washer With Full-Time Operator .....	12,810.26	
<i>For Equipment Without Operator, Deduct</i>	-11,910.31	
01 22 23 00-0751 DAY 5,000 PSI Pressure Washer With Full-Time Operator .....	684.02	
<i>For Equipment Without Operator, Deduct</i>	-552.64	
01 22 23 00-0752 WK 5,000 PSI Pressure Washer With Full-Time Operator .....	3,117.92	
<i>For Equipment Without Operator, Deduct</i>	-2,763.19	
01 22 23 00-0753 MO 5,000 PSI Pressure Washer With Full-Time Operator .....	12,908.80	
<i>For Equipment Without Operator, Deduct</i>	-11,910.31	
<b>01 22 23 00-0754 Confined Space Entry Equipment (01 22 23 00-0716)</b>		
Note: Includes delivery, set-up, and removal.		
01 22 23 00-0755 DAY Ventilation Equipment For Confined Space .....	45.24	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0756 WK Ventilation Equipment For Confined Space .....	135.71	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0757 MO Ventilation Equipment For Confined Space .....	404.99	
Note: Includes electric or gas blower and ventilation duct up to 25'.		
01 22 23 00-0758 DAY Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly .....	34.08	
01 22 23 00-0759 WK Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly .....	102.23	
01 22 23 00-0760 MO Confined Space Air Monitor, Tripod, Harness, Cables, SCBAs And Complete Assembly .....	306.70	
01 22 23 00-0761 DAY Confined Space Air Monitor Personnel .....	650.99	
Note: Per person day.		
<b>01 22 23 00-0762 Space Heaters (01 22 23 00-0716)</b>		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0763 DAY 150,000 BTU/Hour Space Heater .....	49.23	
01 22 23 00-0764 WK 150,000 BTU/Hour Space Heater .....	141.53	
01 22 23 00-0765 MO 150,000 BTU/Hour Space Heater .....	399.98	
01 22 23 00-0766 DAY 500,000 BTU/Hour Space Heater .....	104.61	
01 22 23 00-0767 WK 500,000 BTU/Hour Space Heater .....	258.45	
01 22 23 00-0768 MO 500,000 BTU/Hour Space Heater .....	653.50	
<b>01 22 23 00-0769 Mowers (01 22 23 00-0716)</b>		
Note: Includes delivery to job site and pick-up when complete. Excludes operator.		
01 22 23 00-0770 DAY 21" Walk Behind Lawn Mower .....	49.84	
01 22 23 00-0771 WK 21" Walk Behind Lawn Mower .....	143.28	
01 22 23 00-0772 MO 21" Walk Behind Lawn Mower .....	292.79	
01 22 23 00-0773 DAY 32" Walk Behind Lawn Mower .....	62.30	
01 22 23 00-0774 WK 32" Walk Behind Lawn Mower .....	149.51	
01 22 23 00-0775 MO 32" Walk Behind Lawn Mower .....	311.48	
01 22 23 00-0776 DAY 36" To 48" Walk Behind Deck Mower .....	112.13	
01 22 23 00-0777 WK 36" To 48" Walk Behind Deck Mower .....	311.48	
01 22 23 00-0778 MO 36" To 48" Walk Behind Deck Mower .....	903.28	
01 22 23 00-0779 DAY 61" To 72" Walk Behind Deck Mower .....	112.13	
01 22 23 00-0780 WK 61" To 72" Walk Behind Deck Mower .....	311.48	
01 22 23 00-0781 MO 61" To 72" Walk Behind Deck Mower .....	903.28	
<b>01 22 23 00-0782 Material Handling Equipment (01 22 23)</b>		
<b>01 22 23 00-0783 Truck Mounted Hydraulic Cranes (01 22 23 00-0782)</b>		
Note: Includes full-time operator. Include delivery, set-up, and removal time in rental period.		
01 22 23 00-0784 DAY 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	1,099.14	
<i>For Equipment Without Operator, Deduct</i>	-730.21	
01 22 23 00-0785 WK 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	4,768.69	
<i>For Equipment Without Operator, Deduct</i>	-3,651.04	
01 22 23 00-0786 MO 6 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	19,101.03	
<i>For Equipment Without Operator, Deduct</i>	-15,737.22	
01 22 23 00-0787 DAY 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	1,196.80	
<i>For Equipment Without Operator, Deduct</i>	-730.21	
01 22 23 00-0788 WK 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	5,058.96	
<i>For Equipment Without Operator, Deduct</i>	-3,651.04	
01 22 23 00-0789 MO 8 To 9 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	19,969.11	
<i>For Equipment Without Operator, Deduct</i>	-15,737.22	
01 22 23 00-0790 DAY 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	1,294.46	
<i>For Equipment Without Operator, Deduct</i>	-730.21	
01 22 23 00-0791 WK 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	5,349.22	
<i>For Equipment Without Operator, Deduct</i>	-3,651.04	
01 22 23 00-0792 MO 14 To 15 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	20,837.19	
<i>For Equipment Without Operator, Deduct</i>	-15,737.22	
01 22 23 00-0793 DAY 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	1,424.67	
<i>For Equipment Without Operator, Deduct</i>	-730.21	
01 22 23 00-0794 WK 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	5,739.86	
<i>For Equipment Without Operator, Deduct</i>	-3,651.04	
01 22 23 00-0795 MO 20 To 25 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator .....	22,003.67	
<i>For Equipment Without Operator, Deduct</i>	-15,737.22	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0796 DAY 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,544.03 -730.21	
01 22 23 00-0797 WK 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	6,548.26 -3,651.04	
01 22 23 00-0798 MO 30 To 35 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	24,426.70 -15,737.22	
01 22 23 00-0799 DAY 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	1,826.16 -730.21	
01 22 23 00-0800 WK 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,557.40 -3,651.04	
01 22 23 00-0801 MO 40 To 45 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	27,456.30 -15,737.22	
01 22 23 00-0802 DAY 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,005.20 -730.21	
01 22 23 00-0803 WK 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,186.76 -3,651.04	
01 22 23 00-0804 MO 50 To 55 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	29,348.71 -15,737.22	
01 22 23 00-0805 DAY 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,146.27 -730.21	
01 22 23 00-0806 WK 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,696.76 -3,651.04	
01 22 23 00-0807 MO 60 To 65 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	30,876.54 -15,737.22	
01 22 23 00-0808 DAY 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,287.33 -730.21	
01 22 23 00-0809 WK 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,206.75 -3,651.04	
01 22 23 00-0810 MO 70 To 75 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	32,404.36 -15,737.22	
01 22 23 00-0811 DAY 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,379.56 -730.21	
01 22 23 00-0812 WK 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,521.43 -3,651.04	
01 22 23 00-0813 MO 90 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,359.24 -15,737.22	
01 22 23 00-0814 DAY 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,465.32 -691.18	
01 22 23 00-0815 WK 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,792.88 -3,455.90	
01 22 23 00-0816 MO 100 Ton Lift, Truck Mounted Hydraulic Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	33,907.05 -14,896.10	
<b>01 22 23 00-0817 Cable Controlled Lattice Boom, Truck Mounted Mechanical Cranes</b> (01 22 23 00-0782)		
Note: Includes full-time operator. Excludes delivery, set-up, and removal.		
01 22 23 00-0818 DAY 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	2,032.33 -730.21	
01 22 23 00-0819 WK 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	8,295.27 -3,651.04	
01 22 23 00-0820 MO 75 To 80 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	29,669.90 -15,737.22	
01 22 23 00-0821 DAY 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,036.05 -730.21	
01 22 23 00-0822 WK 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	9,966.32 -3,651.04	
01 22 23 00-0823 MO 100 To 110 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	34,683.07 -15,737.22	
01 22 23 00-0824 DAY 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,198.81 -730.21	
01 22 23 00-0825 WK 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	11,154.51 -3,651.04	
01 22 23 00-0826 MO 125 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	38,246.53 -15,737.22	
01 22 23 00-0827 DAY 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,524.34 -730.21	
01 22 23 00-0828 WK 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	12,342.69 -3,651.04	
01 22 23 00-0829 MO 150 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	41,805.66 -15,737.22	
01 22 23 00-0830 DAY 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	3,833.60 -730.21	
01 22 23 00-0831 WK 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	14,719.06 -3,651.04	
01 22 23 00-0832 MO 250 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	48,941.28 -15,737.22	
01 22 23 00-0833 DAY 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	4,343.59 -730.21	
01 22 23 00-0834 WK 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	16,547.45 -3,651.04	
01 22 23 00-0835 MO 300 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	54,418.86 -15,737.22	
01 22 23 00-0836 DAY 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator <i>For Equipment Without Operator, Deduct</i>	7,479.53 -730.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0837 WK 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	27,723.98	
<i>For Equipment Without Operator, Deduct</i>	-3,651.04	
01 22 23 00-0838 MO 500 Ton Lift, Cable Controlled Lattice Boom, Truck Mounted Mechanical Crane With Full-Time Operator.....	87,961.48	
<i>For Equipment Without Operator, Deduct</i>	-15,737.22	
<b>01 22 23 00-0839 Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklifts (01 22 23 00-0782)</b>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0840 DAY 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	967.83	
<i>For Equipment Without Operator, Deduct</i>	-650.99	
01 22 23 00-0841 WK 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	4,030.39	
<i>For Equipment Without Operator, Deduct</i>	-3,254.96	
01 22 23 00-0842 MO 5,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	15,697.58	
<i>For Equipment Without Operator, Deduct</i>	-14,029.98	
01 22 23 00-0843 DAY 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	1,001.19	
<i>For Equipment Without Operator, Deduct</i>	-650.99	
01 22 23 00-0844 WK 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	4,105.44	
<i>For Equipment Without Operator, Deduct</i>	-3,254.96	
01 22 23 00-0845 MO 6,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	15,864.34	
<i>For Equipment Without Operator, Deduct</i>	-14,029.98	
01 22 23 00-0846 DAY 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	992.85	
<i>For Equipment Without Operator, Deduct</i>	-650.99	
01 22 23 00-0847 WK 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	4,142.96	
<i>For Equipment Without Operator, Deduct</i>	-3,254.96	
01 22 23 00-0848 MO 8,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	16,114.48	
<i>For Equipment Without Operator, Deduct</i>	-14,029.98	
01 22 23 00-0849 DAY 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	1,088.73	
<i>For Equipment Without Operator, Deduct</i>	-650.99	
01 22 23 00-0850 WK 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	4,393.10	
<i>For Equipment Without Operator, Deduct</i>	-3,254.96	
01 22 23 00-0851 MO 10,000 LB Telescopic Boom, Hi-Reach, Rough Terrain Construction Forklift With Full-Time Operator .....	16,698.14	
<i>For Equipment Without Operator, Deduct</i>	-14,029.98	
<b>01 22 23 00-0852 Straight Mast, Rough Terrain Construction Forklifts (01 22 23 00-0782)</b>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0853 DAY 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	856.94	
<i>For Equipment Without Operator, Deduct</i>	-650.99	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	41.19	
01 22 23 00-0854 WK 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	3,817.36	
<i>For Equipment Without Operator, Deduct</i>	-3,254.96	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	112.48	
01 22 23 00-0855 MO 5,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	15,317.16	
<i>For Equipment Without Operator, Deduct</i>	-14,029.98	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	257.44	
01 22 23 00-0856 DAY 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	867.78	
<i>For Equipment Without Operator, Deduct</i>	-650.99	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	43.36	
01 22 23 00-0857 WK 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	3,846.96	
<i>For Equipment Without Operator, Deduct</i>	-3,254.96	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	118.40	
01 22 23 00-0858 MO 6,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	15,384.90	
<i>For Equipment Without Operator, Deduct</i>	-14,029.98	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	270.98	
01 22 23 00-0859 DAY 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	926.14	
<i>For Equipment Without Operator, Deduct</i>	-650.99	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	55.03	
01 22 23 00-0860 WK 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	4,009.55	
<i>For Equipment Without Operator, Deduct</i>	-3,254.96	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	150.92	
01 22 23 00-0861 MO 8,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	15,760.12	
<i>For Equipment Without Operator, Deduct</i>	-14,029.98	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	346.03	
01 22 23 00-0862 DAY 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	958.29	
<i>For Equipment Without Operator, Deduct</i>	-650.99	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	61.46	
01 22 23 00-0863 WK 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	3,995.62	
<i>For Equipment Without Operator, Deduct</i>	-3,254.96	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	148.13	
01 22 23 00-0864 MO 10,000 LB Straight Mast, Rough Terrain Construction Forklift With Full-Time Operator.....	15,873.76	
<i>For Equipment Without Operator, Deduct</i>	-14,029.98	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	368.76	
<b>01 22 23 00-0865 Straight Mast, Industrial Warehouse Forklifts (01 22 23 00-0782)</b>		
<i>Note: Includes full-time operator. Excludes delivery, set-up, and removal.</i>		
01 22 23 00-0866 DAY 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	826.09	
<i>For Equipment Without Operator, Deduct</i>	-650.99	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	35.02	
01 22 23 00-0867 WK 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	3,655.18	
<i>For Equipment Without Operator, Deduct</i>	-3,254.96	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	80.04	
01 22 23 00-0868 MO 5,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator.....	14,988.85	
<i>For Equipment Without Operator, Deduct</i>	-14,029.98	
<i>For Propane Instead Of Gas Or Diesel, Add</i>	191.77	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-0869	DAY		6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator .....	830.26	
			<i>For Equipment Without Operator, Deduct</i>	-650.99	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	35.85	
01 22 23 00-0870	WK		6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator .....	3,667.69	
			<i>For Equipment Without Operator, Deduct</i>	-3,254.96	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	82.55	
01 22 23 00-0871	MO		6,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator .....	15,018.03	
			<i>For Equipment Without Operator, Deduct</i>	-14,029.98	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	197.61	
01 22 23 00-0872	DAY		8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator .....	917.81	
			<i>For Equipment Without Operator, Deduct</i>	-650.99	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	53.36	
01 22 23 00-0873	WK		8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator .....	3,859.46	
			<i>For Equipment Without Operator, Deduct</i>	-3,254.96	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	120.90	
01 22 23 00-0874	MO		8,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator .....	15,489.13	
			<i>For Equipment Without Operator, Deduct</i>	-14,029.98	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	291.83	
01 22 23 00-0875	DAY		12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator .....	926.14	
			<i>For Equipment Without Operator, Deduct</i>	-650.99	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	55.03	
01 22 23 00-0876	WK		12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator .....	3,930.34	
			<i>For Equipment Without Operator, Deduct</i>	-3,254.96	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	135.08	
01 22 23 00-0877	MO		12,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator .....	15,739.27	
			<i>For Equipment Without Operator, Deduct</i>	-14,029.98	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	341.86	
01 22 23 00-0878	DAY		15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator .....	1,001.19	
			<i>For Equipment Without Operator, Deduct</i>	-650.99	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	70.04	
01 22 23 00-0879	WK		15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator .....	4,051.24	
			<i>For Equipment Without Operator, Deduct</i>	-3,254.96	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	159.26	
01 22 23 00-0880	MO		15,000 LB Straight Mast, Industrial Warehouse Forklift With Full-Time Operator .....	15,947.72	
			<i>For Equipment Without Operator, Deduct</i>	-14,029.98	
			<i>For Propane Instead Of Gas Or Diesel, Add</i>	383.55	
<b>01 22 23 00-0881</b>			<b>Chain Hoists</b> <small>(01 22 23 00-0782)</small>		
			Note: Includes delivery to job site and pick-up when complete.		
01 22 23 00-0882	DAY		1 Ton, 20' Lift, Manual Chain Hoist .....	1.75	
01 22 23 00-0883	WK		1 Ton, 20' Lift, Manual Chain Hoist .....	7.00	
01 22 23 00-0884	MO		1 Ton, 20' Lift, Manual Chain Hoist .....	23.39	
01 22 23 00-0885	DAY		3 Ton, 20' Lift, Manual Chain Hoist .....	3.33	
01 22 23 00-0886	WK		3 Ton, 20' Lift, Manual Chain Hoist .....	11.34	
01 22 23 00-0887	MO		3 Ton, 20' Lift, Manual Chain Hoist .....	42.05	
01 22 23 00-0888	DAY		5 Ton, 20' Lift, Manual Chain Hoist .....	4.33	
01 22 23 00-0889	WK		5 Ton, 20' Lift, Manual Chain Hoist .....	15.34	
01 22 23 00-0890	MO		5 Ton, 20' Lift, Manual Chain Hoist .....	57.05	
01 22 23 00-0891	DAY		2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist .....	46.34	
01 22 23 00-0892	WK		2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist .....	185.38	
01 22 23 00-0893	MO		2 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist .....	669.80	
01 22 23 00-0894	DAY		3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist .....	52.01	
01 22 23 00-0895	WK		3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist .....	207.05	
01 22 23 00-0896	MO		3 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist .....	743.61	
01 22 23 00-0897	DAY		5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist .....	55.01	
01 22 23 00-0898	WK		5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist .....	221.05	
01 22 23 00-0899	MO		5 Ton, 20' Lift, 2-Speed, 230/460 Volt, 60 Cycle, Electric Chain Hoist .....	787.90	
<b>01 22 23 00-0900</b>			<b>Pumping Equipment</b> <small>(01 22 23)</small>		
<b>01 22 23 00-0901</b>			<b>Gas Powered Portable Centrifugal Pumps</b> <small>(01 22 23 00-0900)</small>		
			Note: Includes delivery, set-up, and removal. Excludes operator. See CSI section 01 22 23 00-0925 for larger diameter pumps.		
01 22 23 00-0902	DAY		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump .....	59.29	
01 22 23 00-0903	WK		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump .....	133.41	
01 22 23 00-0904	MO		8,500 GPH, 2" Discharge, 108' Maximum Head, Gas Powered Portable Centrifugal Pump .....	355.75	
01 22 23 00-0905	DAY		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump .....	71.15	
01 22 23 00-0906	WK		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump .....	160.09	
01 22 23 00-0907	MO		16,500 GPH, 3" Discharge, 85' Maximum Head, Gas Powered Portable Centrifugal Pump .....	426.90	
<b>01 22 23 00-0908</b>			<b>Gas Powered Portable Diaphragm Pumps</b> <small>(01 22 23 00-0900)</small>		
			Note: Includes delivery, set-up, and removal. Excludes operator.		
01 22 23 00-0909	DAY		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump .....	68.19	
01 22 23 00-0910	WK		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump .....	192.70	
01 22 23 00-0911	MO		3,000 GPH, 2" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump .....	489.16	
01 22 23 00-0912	DAY		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump .....	83.01	
01 22 23 00-0913	WK		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump .....	222.34	
01 22 23 00-0914	MO		5,200 GPH, 3" Discharge, 25' Maximum Head, Gas Powered Portable Diaphragm Pump .....	629.98	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 22 23 00-0915 Gas Powered Portable Trash Pumps (01 22 23 00-0900)</b>						
Note: Includes delivery, set-up, and removal. Excludes operator.						
	DAY			12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	85.97	
	WK			12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	177.88	
	MO			12,000 GPH, 2" Discharge, 100' Maximum Head, Gas Powered Portable Trash Pump.....	533.63	
	DAY			25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	85.97	
	WK			25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	229.76	
	MO			25,000 GPH, 3" Discharge, 90' Maximum Head, Gas Powered Portable Trash Pump.....	629.98	
	DAY			35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	136.37	
	WK			35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	385.40	
	MO			35,000 GPH, 4" Discharge, 106' Maximum Head, Gas Powered Portable Trash Pump.....	1,119.14	
<b>01 22 23 00-0925 Diesel Powered Portable Trash Pumps (01 22 23 00-0900)</b>						
Note: Includes delivery, set-up, and removal. Excludes operator.						
	DAY			63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump.....	266.81	
	WK			63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump.....	726.33	
	MO			63,000 GPH, 4" Discharge, 153' Maximum Head, Diesel Powered Portable Trash Pump.....	3,164.71	
	DAY			156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	407.63	
	WK			156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	1,067.26	
	MO			156,000 GPH, 6" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	2,838.60	
	DAY			246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	554.38	
	WK			246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	1,483.78	
	MO			246,000 GPH, 10" Discharge, 160' Maximum Head, Diesel Powered Portable Trash Pump.....	3,969.60	
	DAY			379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump.....	717.43	
	WK			379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump.....	1,832.12	
	MO			379,000 GPH, 12" Discharge, 104' Maximum Head, Diesel Powered Portable Trash Pump.....	5,380.75	
<b>01 22 23 00-0938 Diesel Powered Portable Silenced Environmental Trash Pumps (01 22 23 00-0900)</b>						
Note: Includes delivery, set-up, and removal. Excludes operator.						
	DAY			90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	380.95	
	WK			90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	867.15	
	MO			90,000 GPH, 4" Discharge, 330' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	2,703.72	
	DAY			136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	466.92	
	WK			136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,163.61	
	MO			136,800 GPH, 6" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	3,164.71	
	DAY			246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	563.27	
	WK			246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	1,666.11	
	MO			246,000 GPH, 10" Discharge, 158' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	4,647.01	
	DAY			510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	847.88	
	WK			510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	2,165.64	
	MO			510,000 GPH, 12" Discharge, 200' Maximum Head, Diesel Powered Portable Silenced Environmental Trash Pump.....	6,359.07	
<b>01 22 23 00-0951 3 Phase Electric Submersible Pumps (01 22 23 00-0900)</b>						
Note: Includes delivery, set-up, and removal. Excludes operator.						
	DAY			24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump.....	148.23	
	WK			24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump.....	370.58	
	MO			24,000 GPH, 3" Discharge, 78' Maximum Head, 3 Phase Electric Submersible Pump.....	1,111.72	
	DAY			49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump.....	195.66	
	WK			49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump.....	489.16	
	MO			49,800 GPH, 4" Discharge, 98' Maximum Head, 3 Phase Electric Submersible Pump.....	1,467.48	
<b>01 22 23 00-0958 Suction Hose With Couplings (01 22 23 00-0900)</b>						
Note: Includes delivery, set-up, and removal.						
	DAY			Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	4.46	
	WK			Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	11.16	
	MO			Up To 2" Inside Diameter, 20' Length, Suction Hose With Couplings.....	34.22	
	DAY			3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	11.90	
	WK			3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	30.50	
	MO			3" Inside Diameter, 20' Length, Suction Hose With Couplings.....	93.00	
	DAY			4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	17.86	
	WK			4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	45.38	
	MO			4" Inside Diameter, 20' Length, Suction Hose With Couplings.....	137.64	
	DAY			6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	22.32	
	WK			6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	55.80	
	MO			6" Inside Diameter, 20' Length, Suction Hose With Couplings.....	163.68	
	DAY			10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	52.08	
	WK			10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	133.92	
	MO			10" Inside Diameter, 20' Length, Suction Hose With Couplings.....	394.32	
	DAY			12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	69.94	
	WK			12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	152.52	
	MO			12" Inside Diameter, 20' Length, Suction Hose With Couplings.....	457.56	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 20</b>	<b>Price And Payment Procedures</b>
	<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>01 22 23 00-0977</b>	<b>Discharge Hose With Couplings</b> (01 22 23 00-0900)	
	Note: Includes delivery, set-up, and removal.	
01 22 23 00-0978	DAY 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	4.46
01 22 23 00-0979	WK 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	11.16
01 22 23 00-0980	MO 1-1/2" Inside Diameter, 50' Length, Discharge Hose With Couplings .....	34.22
01 22 23 00-0981	DAY 2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	5.21
01 22 23 00-0982	WK 2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	12.65
01 22 23 00-0983	MO 2" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	39.43
01 22 23 00-0984	DAY 3" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	5.95
01 22 23 00-0985	WK 3" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	14.88
01 22 23 00-0986	MO 3" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	45.38
01 22 23 00-0987	DAY 4" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	15.62
01 22 23 00-0988	WK 4" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	40.18
01 22 23 00-0989	MO 4" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	115.32
01 22 23 00-0990	DAY 6" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	19.34
01 22 23 00-0991	WK 6" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	52.82
01 22 23 00-0992	MO 6" Inside Diameter, 50' Length, Discharge Hose With Couplings.....	145.08
01 22 23 00-0993	DAY 10" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	14.88
01 22 23 00-0994	WK 10" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	37.20
01 22 23 00-0995	MO 10" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	111.60
01 22 23 00-0996	DAY 12" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	37.94
01 22 23 00-0997	WK 12" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	96.72
01 22 23 00-0998	MO 12" Inside Diameter, 10' Length, Discharge Hose With Couplings.....	286.44

<b>01 22 23 00-0999</b>	<b>Hydraulic Submersible Pumps</b> (01 22 23 00-0900)	
<b>01 22 23 00-1000</b>	<b>Hydraulic Submersible Pumps</b> (01 22 23 00-0999)	
	Note: Includes delivery, set-up, and removal. Excludes operator.	
01 22 23 00-1001	DAY 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump .....	97.83
01 22 23 00-1002	WK 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump .....	262.37
01 22 23 00-1003	MO 60,000 GPH, 4" Discharge, 115' Maximum Head, Hydraulic Submersible Pump .....	733.74
01 22 23 00-1004	DAY 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump .....	124.51
01 22 23 00-1005	WK 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump .....	320.18
01 22 23 00-1006	MO 132,000 GPH, 6" Discharge, 90' Maximum Head, Hydraulic Submersible Pump .....	978.32

<b>01 22 23 00-1007</b>	<b>Hydraulic Submersible Pump Diesel Power Packs</b> (01 22 23 00-0999)	
	Note: Includes delivery, set-up, and removal. Excludes operator.	
01 22 23 00-1008	DAY 100 HP, Hydraulic Submersible Pump Diesel Power Pack .....	226.05
01 22 23 00-1009	WK 100 HP, Hydraulic Submersible Pump Diesel Power Pack .....	674.45
01 22 23 00-1010	MO 100 HP, Hydraulic Submersible Pump Diesel Power Pack .....	1,778.76

<b>01 22 23 00-1011</b>	<b>HDPE Pipe With Couplings</b> (01 22 23 00-0900)	
	Note: Includes delivery, set-up, and removal.	
01 22 23 00-1012	DAY 4" x 20' HDPE Pipe With Couplings .....	5.00
01 22 23 00-1013	WK 4" x 20' HDPE Pipe With Couplings .....	12.00
01 22 23 00-1014	MON 4" x 20' HDPE Pipe With Couplings .....	37.00
01 22 23 00-1015	DAY 6" x 20' HDPE Pipe With Couplings .....	8.00
01 22 23 00-1016	WK 6" x 20' HDPE Pipe With Couplings .....	20.00
01 22 23 00-1017	MON 6" x 20' HDPE Pipe With Couplings .....	61.00
01 22 23 00-1018	DAY 8" x 20' HDPE Pipe With Couplings .....	13.00
01 22 23 00-1019	WK 8" x 20' HDPE Pipe With Couplings .....	34.00
01 22 23 00-1020	MON 8" x 20' HDPE Pipe With Couplings .....	101.00
01 22 23 00-1021	DAY 10" x 20' HDPE Pipe With Couplings .....	16.00
01 22 23 00-1022	WK 10" x 20' HDPE Pipe With Couplings .....	41.00
01 22 23 00-1023	MON 10" x 20' HDPE Pipe With Couplings .....	125.00
01 22 23 00-1024	DAY 12" x 10' HDPE Pipe With Couplings .....	12.00
01 22 23 00-1025	WK 12" x 10' HDPE Pipe With Couplings .....	33.00
01 22 23 00-1026	MON 12" x 10' HDPE Pipe With Couplings .....	100.00
01 22 23 00-1027	DAY 4" Elbow For HDPE Pipe, Quick Connect .....	12.00
01 22 23 00-1028	WK 4" Elbow For HDPE Pipe, Quick Connect .....	31.00
01 22 23 00-1029	MON 4" Elbow For HDPE Pipe, Quick Connect .....	92.00
01 22 23 00-1030	DAY 6" Elbow For HDPE Pipe, Quick Connect .....	14.00
01 22 23 00-1031	WK 6" Elbow For HDPE Pipe, Quick Connect .....	36.00
01 22 23 00-1032	MON 6" Elbow For HDPE Pipe, Quick Connect .....	110.00
01 22 23 00-1033	DAY 8" Elbow For HDPE Pipe, Quick Connect .....	16.00
01 22 23 00-1034	WK 8" Elbow For HDPE Pipe, Quick Connect .....	41.00
01 22 23 00-1035	MON 8" Elbow For HDPE Pipe, Quick Connect .....	125.00
01 22 23 00-1036	DAY 10" Elbow For HDPE Pipe, Quick Connect .....	20.00
01 22 23 00-1037	WK 10" Elbow For HDPE Pipe, Quick Connect .....	51.00
01 22 23 00-1038	MON 10" Elbow For HDPE Pipe, Quick Connect .....	155.00
01 22 23 00-1039	DAY 12" Elbow For HDPE Pipe, Quick Connect .....	20.00
01 22 23 00-1040	WK 12" Elbow For HDPE Pipe, Quick Connect .....	51.00
01 22 23 00-1041	MON 12" Elbow For HDPE Pipe, Quick Connect .....	155.00
01 22 23 00-1042	DAY 4" Tee For HDPE Pipe, Quick Connect .....	12.00
01 22 23 00-1043	WK 4" Tee For HDPE Pipe, Quick Connect .....	31.00
01 22 23 00-1044	MON 4" Tee For HDPE Pipe, Quick Connect .....	92.00
01 22 23 00-1045	DAY 6" Tee For HDPE Pipe, Quick Connect .....	16.00





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1046 WK 6" Tee For HDPE Pipe, Quick Connect .....	41.00	
01 22 23 00-1047 MON 6" Tee For HDPE Pipe, Quick Connect .....	125.00	
01 22 23 00-1048 DAY 8" Tee For HDPE Pipe, Quick Connect .....	20.00	
01 22 23 00-1049 WK 8" Tee For HDPE Pipe, Quick Connect .....	51.00	
01 22 23 00-1050 MON 8" Tee For HDPE Pipe, Quick Connect .....	155.00	
01 22 23 00-1051 DAY 10" Tee For HDPE Pipe, Quick Connect .....	24.00	
01 22 23 00-1052 WK 10" Tee For HDPE Pipe, Quick Connect .....	61.00	
01 22 23 00-1053 MON 10" Tee For HDPE Pipe, Quick Connect .....	185.00	
01 22 23 00-1054 DAY 12" Tee For HDPE Pipe, Quick Connect .....	24.00	
01 22 23 00-1055 WK 12" Tee For HDPE Pipe, Quick Connect .....	61.00	
01 22 23 00-1056 MON 12" Tee For HDPE Pipe, Quick Connect .....	185.00	
01 22 23 00-1057 DAY 4" Cap For HDPE Pipe, Quick Connect .....	2.00	
01 22 23 00-1058 WK 4" Cap For HDPE Pipe, Quick Connect .....	6.00	
01 22 23 00-1059 MON 4" Cap For HDPE Pipe, Quick Connect .....	18.00	
01 22 23 00-1060 DAY 6" Cap For HDPE Pipe, Quick Connect .....	2.00	
01 22 23 00-1061 WK 6" Cap For HDPE Pipe, Quick Connect .....	6.00	
01 22 23 00-1062 MON 6" Cap For HDPE Pipe, Quick Connect .....	18.00	
01 22 23 00-1063 DAY 8" Cap For HDPE Pipe, Quick Connect .....	2.00	
01 22 23 00-1064 WK 8" Cap For HDPE Pipe, Quick Connect .....	6.00	
01 22 23 00-1065 MON 8" Cap For HDPE Pipe, Quick Connect .....	18.00	
01 22 23 00-1066 DAY 10" Cap For HDPE Pipe, Quick Connect .....	2.00	
01 22 23 00-1067 WK 10" Cap For HDPE Pipe, Quick Connect .....	6.00	
01 22 23 00-1068 MON 10" Cap For HDPE Pipe, Quick Connect .....	18.00	
01 22 23 00-1069 DAY 12" Cap For HDPE Pipe, Quick Connect .....	2.00	
01 22 23 00-1070 WK 12" Cap For HDPE Pipe, Quick Connect .....	6.00	
01 22 23 00-1071 MON 12" Cap For HDPE Pipe, Quick Connect .....	18.00	
01 22 23 00-1072 DAY 4" Wye For HDPE Pipe, Quick Connect .....	6.00	
01 22 23 00-1073 WK 4" Wye For HDPE Pipe, Quick Connect .....	15.00	
01 22 23 00-1074 MON 4" Wye For HDPE Pipe, Quick Connect .....	46.00	
01 22 23 00-1075 DAY 6" Wye For HDPE Pipe, Quick Connect .....	7.00	
01 22 23 00-1076 WK 6" Wye For HDPE Pipe, Quick Connect .....	18.00	
01 22 23 00-1077 MON 6" Wye For HDPE Pipe, Quick Connect .....	55.00	
01 22 23 00-1078 DAY 8" Wye For HDPE Pipe, Quick Connect .....	12.00	
01 22 23 00-1079 WK 8" Wye For HDPE Pipe, Quick Connect .....	31.00	
01 22 23 00-1080 MON 8" Wye For HDPE Pipe, Quick Connect .....	92.00	
01 22 23 00-1081 DAY 10" Wye For HDPE Pipe, Quick Connect .....	18.00	
01 22 23 00-1082 WK 10" Wye For HDPE Pipe, Quick Connect .....	46.00	
01 22 23 00-1083 MON 10" Wye For HDPE Pipe, Quick Connect .....	140.00	
01 22 23 00-1084 DAY 12" Wye For HDPE Pipe, Quick Connect .....	18.00	
01 22 23 00-1085 WK 12" Wye For HDPE Pipe, Quick Connect .....	46.00	
01 22 23 00-1086 MON 12" Wye For HDPE Pipe, Quick Connect .....	140.00	
01 22 23 00-1087 Temporary Building Services (01 22 23)		
01 22 23 00-1088 Boilers (01 22 23 00-1087)		
Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1089 Electric Boilers (01 22 23 00-1088)		
01 22 23 00-1090 MO 40 MBH, 12 KW Electric Boiler Rental .....	1,649.89	
01 22 23 00-1091 MO 60 MBH, 20 KW Electric Boiler Rental .....	1,799.91	
01 22 23 00-1092 MO 95 MBH, 30 KW Electric Boiler Rental .....	1,874.91	
01 22 23 00-1093 MO 135 MBH, 40 KW Electric Boiler Rental .....	2,099.86	
01 22 23 00-1094 MO 165 MBH, 50 KW Electric Boiler Rental .....	2,924.81	
01 22 23 00-1095 MO 215 MBH, 60 KW Electric Boiler Rental .....	3,374.79	
01 22 23 00-1096 MO 365 MBH, 100 KW Electric Boiler Rental .....	4,424.76	
01 22 23 00-1097 MO 510 MBH, 150 KW Electric Boiler Rental .....	5,399.71	
01 22 23 00-1098 Oil/Gas Fired Boilers (01 22 23 00-1088)		
01 22 23 00-1099 MO Up To 100 HP Gas/Oil Dual Fuel Boiler Rental .....	10,331.50	
For >3 Months Rental, Deduct		-1,549.73
01 22 23 00-1100 MO >100 HP To 250 HP Gas/Oil Dual Fuel Boiler Rental .....	13,430.95	
For >3 Months Rental, Deduct		-2,014.64
01 22 23 00-1101 MO >250 HP To 500 HP Gas/Oil Dual Fuel Boiler Rental .....	21,696.15	
For >3 Months Rental, Deduct		-3,254.42
01 22 23 00-1102 MO >500 HP To 800 HP Gas/Oil Dual Fuel Boiler Rental .....	29,961.35	
For >3 Months Rental, Deduct		-4,494.20
01 22 23 00-1103 Oil Fired Boilers (01 22 23 00-1088)		
01 22 23 00-1104 MO 250 HP Oil Fired Boiler Rental .....	4,633.74	
01 22 23 00-1105 MO 350 HP Oil Fired Boiler Rental .....	6,178.32	
01 22 23 00-1106 MO 500 HP Oil Fired Boiler Rental .....	7,722.90	
01 22 23 00-1107 MO 600 HP Oil Fired Boiler Rental .....	8,495.18	
01 22 23 00-1108 Boilers Setup (01 22 23 00-1088)		
01 22 23 00-1109 EA Setup Rental Boiler .....	4,126.57	
Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 20</b>	<b>Price And Payment Procedures</b>
	<b>01 22</b>	<b>Unit Prices</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 22 23 00-110	<b>Chillers</b> <small>(01 22 23 00-1087)</small>		
	Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-111	<b>Air Cooled Chillers</b> <small>(01 22 23 00-1110)</small>		
01 22 23 00-1112	MO 25 Ton Air Cooled Chiller Rental.....	2,244.82	
	For >3 To 6 Month Rental, Deduct	-336.72	
	For >6 Month Rental, Deduct	-561.21	
01 22 23 00-1113	MO 40 Ton Air Cooled Chiller Rental.....	3,591.72	
	For >3 To 6 Month Rental, Deduct	-538.76	
	For >6 Month Rental, Deduct	-897.93	
01 22 23 00-1114	MO 60 Ton Air Cooled Chiller Rental.....	4,393.08	
	For >3 To 6 Month Rental, Deduct	-658.96	
	For >6 Month Rental, Deduct	-1,098.27	
01 22 23 00-1115	MO 80 Ton Air Cooled Chiller Rental.....	5,194.44	
	For >3 To 6 Month Rental, Deduct	-779.17	
	For >6 Month Rental, Deduct	-1,298.61	
01 22 23 00-1116	MO 100 Ton Air Cooled Chiller Rental.....	5,995.80	
	For >3 To 6 Month Rental, Deduct	-899.37	
	For >6 Month Rental, Deduct	-1,498.95	
01 22 23 00-1117	MO 125 Ton Air Cooled Chiller Rental.....	6,946.25	
	For >3 To 6 Month Rental, Deduct	-1,041.94	
	For >6 Month Rental, Deduct	-1,736.56	
01 22 23 00-1118	MO 155 Ton Air Cooled Chiller Rental.....	8,403.26	
	For >3 To 6 Month Rental, Deduct	-1,260.49	
	For >6 Month Rental, Deduct	-2,100.82	
01 22 23 00-1119	MO 170 Ton Air Cooled Chiller Rental.....	8,986.07	
	For >3 To 6 Month Rental, Deduct	-1,347.91	
	For >6 Month Rental, Deduct	-2,246.52	
01 22 23 00-1120	MO 200 Ton Air Cooled Chiller Rental.....	10,322.80	
	For >3 To 6 Month Rental, Deduct	-1,548.42	
	For >6 Month Rental, Deduct	-2,580.70	
01 22 23 00-1121	MO 250 Ton Air Cooled Chiller Rental.....	12,283.00	
	For >3 To 6 Month Rental, Deduct	-1,842.45	
	For >6 Month Rental, Deduct	-3,070.75	
01 22 23 00-1122	MO 300 Ton Air Cooled Chiller Rental.....	14,332.99	
	Note: Includes trailer.		
	For >3 To 6 Month Rental, Deduct	-2,149.95	
	For >6 Month Rental, Deduct	-3,583.25	
01 22 23 00-1123	MO 400 Ton Air Cooled Chiller Rental.....	18,907.35	
	Note: Includes trailer, pump and 200' of 6" hose.		
	For >3 To 6 Month Rental, Deduct	-2,836.10	
	For >6 Month Rental, Deduct	-4,726.84	
01 22 23 00-1124	MO 500 Ton Air Cooled Chiller Rental.....	23,403.77	
	Note: Includes trailer, pump and 200' of 6" hose.		
	For >3 To 6 Month Rental, Deduct	-3,510.57	
	For >6 Month Rental, Deduct	-5,850.94	
01 22 23 00-1125	EA Setup Air Cooled Chiller Rental Unit.....	2,868.47	
	Note: Includes delivery, setup, installation, refrigerant charge, startup, commissioning, decommissioning, recovery of refrigerant and pickup. Excludes piping and electrical hookup. Excludes crane if off-loaded.		
01 22 23 00-1126	<b>Chiller Rental Accessories</b> <small>(01 22 23 00-1110)</small>		
01 22 23 00-1127	MO 4" x 25' Flexible Water Hose For Chiller Rental.....	40.00	
01 22 23 00-1128	MO 6" x 25' Flexible Water Hose For Chiller Rental.....	50.00	
01 22 23 00-1129	<b>Cooling Tower</b> <small>(01 22 23 00-1087)</small>		
	Note: Excludes operator, delivery, set-up, and removal.		
01 22 23 00-1130	MO 100 Ton Cooling Tower Rental.....	2,060.00	
	For >3 To 6 Months Rental, Deduct	-309.00	
	For >6 Months Rental, Deduct	-515.00	
01 22 23 00-1131	MO 200 Ton Cooling Tower Rental.....	3,750.00	
	For >3 To 6 Months Rental, Deduct	-562.50	
	For >6 Months Rental, Deduct	-937.50	
01 22 23 00-1132	MO 250 Ton Cooling Tower Rental.....	4,246.70	
	For >3 To 6 Months Rental, Deduct	-637.01	
	For >6 Months Rental, Deduct	-1,061.68	
01 22 23 00-1133	MO 300 Ton Cooling Tower Rental.....	4,800.00	
	For >3 To 6 Months Rental, Deduct	-720.00	
	For >6 Months Rental, Deduct	-1,200.00	
01 22 23 00-1134	MO 400 Ton Cooling Tower Rental.....	6,000.00	
	For >3 To 6 Months Rental, Deduct	-900.00	
	For >6 Months Rental, Deduct	-1,500.00	
01 22 23 00-1135	MO 500 Ton Cooling Tower Rental.....	7,015.03	
	For >3 To 6 Months Rental, Deduct	-1,052.25	
	For >6 Months Rental, Deduct	-1,753.76	
01 22 23 00-1136	MO Setup Rental Cooling Tower.....	2,868.47	
	Note: Includes delivery, setup, installation, startup, commissioning, decommissioning, and pickup. Excludes piping and electrical hookup. Excludes crane.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 22 23 00-1137</b> <b>Emergency Cooler/Freezer</b> <small>(01 22 23 00-1087)</small>		
Note: Excludes utility connection, delivery, set-up, and removal. Cooler 115V or 230V, freezer 208/230V, combo 115V or 230V.		
01 22 23 00-1138 DAY 8 x 6 x 7 Emergency Cooler Rental .....	90.74	
01 22 23 00-1139 WK 8 x 6 x 7 Emergency Cooler Rental .....	483.96	
01 22 23 00-1140 DAY 10 x 7 x 7 Emergency Cooler Rental .....	181.48	
01 22 23 00-1141 WK 10 x 7 x 7 Emergency Cooler Rental .....	725.94	
01 22 23 00-1142 MO 10 x 7 x 7 Emergency Cooler Rental .....	1,814.85	
01 22 23 00-1143 DAY 10 x 7 x 7 Emergency Freezer Rental .....	211.73	
01 22 23 00-1144 WK 10 x 7 x 7 Emergency Freezer Rental .....	846.93	
01 22 23 00-1145 MO 10 x 7 x 7 Emergency Freezer Rental .....	2,177.82	
01 22 23 00-1146 DAY 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental .....	241.98	
01 22 23 00-1147 WK 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental .....	967.92	
01 22 23 00-1148 MO 6 x 8 x 7 Or 6 x 6 x 7, Emergency Combo Cooler/Freezer Rental .....	2,419.80	
<b>01 22 23 00-1149</b> <b>Portable Spot Cooling Units</b> <small>(01 22 23 00-1087)</small>		
Note: Includes delivery to job site, connection to existing system and pick-up when complete. Excludes operator.		
01 22 23 00-1150 DAY 1 Ton Portable Spot Cooling Unit .....	176.12	
01 22 23 00-1151 WK 1 Ton Portable Spot Cooling Unit .....	387.48	
01 22 23 00-1152 MO 1 Ton Portable Spot Cooling Unit .....	774.95	
01 22 23 00-1153 DAY 2 Ton Portable Spot Cooling Unit .....	281.80	
01 22 23 00-1154 WK 2 Ton Portable Spot Cooling Unit .....	563.60	
01 22 23 00-1155 MO 2 Ton Portable Spot Cooling Unit .....	1,268.10	
01 22 23 00-1156 DAY 3 Ton Portable Spot Cooling Unit .....	422.70	
01 22 23 00-1157 WK 3 Ton Portable Spot Cooling Unit .....	845.40	
01 22 23 00-1158 MO 3 Ton Portable Spot Cooling Unit .....	1,690.80	
01 22 23 00-1159 DAY 5 Ton Portable Spot Cooling Unit .....	493.15	
01 22 23 00-1160 WK 5 Ton Portable Spot Cooling Unit .....	986.30	
01 22 23 00-1161 MO 5 Ton Portable Spot Cooling Unit .....	2,254.40	
01 22 23 00-1162 DAY 10 Ton Portable Spot Cooling Unit .....	1,056.75	
01 22 23 00-1163 WK 10 Ton Portable Spot Cooling Unit .....	1,690.80	
01 22 23 00-1164 MO 10 Ton Portable Spot Cooling Unit .....	3,381.60	
01 22 23 00-1165 DAY 20 Ton Portable Spot Cooling Unit .....	1,409.00	
01 22 23 00-1166 WK 20 Ton Portable Spot Cooling Unit .....	2,465.75	
01 22 23 00-1167 MO 20 Ton Portable Spot Cooling Unit .....	5,283.75	
01 22 23 00-1168 DAY 25 Ton Portable Spot Cooling Unit .....	1,127.20	
01 22 23 00-1169 WK 25 Ton Portable Spot Cooling Unit .....	2,395.30	
01 22 23 00-1170 MO 25 Ton Portable Spot Cooling Unit .....	5,636.00	
<b>01 22 23 00-1171</b> <b>Fuel Oil Tank</b> <small>(01 22 23 00-1087)</small>		
Note: Includes delivery to job site, connection to existing system and pick-up when complete. Excludes Off-road fuel costs. See CSI section 01 22 23 00-0714 for reimbursable fuel fees.		
01 22 23 00-1172 MO 100 Gallon Portable Double Wall Fuel Oil Tank Rental .....	578.54	
01 22 23 00-1173 MO 275 Gallon Portable Double Wall Fuel Oil Tank Rental .....	899.96	
01 22 23 00-1174 MO 500 Gallon Portable Double Wall Fuel Oil Tank Rental .....	2,249.89	
01 22 23 00-1175 MO 1,000 Gallon Portable Double Wall Fuel Oil Tank Rental .....	3,749.81	
01 22 23 00-1176 MO 2,300 Gallon Portable Double Wall Fuel Oil Tank Rental .....	4,949.75	
01 22 23 00-1177 MO 5,000 Gallon Portable Double Wall Fuel Oil Tank Rental .....	8,842.42	
<b>01 22 23 00-1178</b> <b>Truck And Trailer Equipment</b> <small>(01 22 23)</small>		
<b>01 22 23 00-1179</b> <b>Trucks</b> <small>(01 22 23 00-1178)</small>		
Note: Includes full-time driver, delivery, and removal.		
<b>01 22 23 00-1180</b> <b>Flat Bed Trucks</b> <small>(01 22 23 00-1179)</small>		
Note: Includes hydraulic tilt bed.		
01 22 23 00-1181 DAY 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....	797.79	
<i>For Equipment Without Operator, Deduct</i>		
	-583.10	
01 22 23 00-1182 WK 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....	3,478.35	
<i>For Equipment Without Operator, Deduct</i>		
	-2,915.51	
01 22 23 00-1183 MO 1-1/2 Ton Capacity, 8' To 10' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....	13,988.45	
<i>For Equipment Without Operator, Deduct</i>		
	-12,566.84	
01 22 23 00-1184 DAY 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....	890.63	
<i>For Equipment Without Operator, Deduct</i>		
	-583.10	
01 22 23 00-1185 WK 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....	3,716.25	
<i>For Equipment Without Operator, Deduct</i>		
	-2,915.51	
01 22 23 00-1186 MO 3 Ton Capacity, 12' To 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....	14,597.72	
<i>For Equipment Without Operator, Deduct</i>		
	-12,566.84	
01 22 23 00-1187 DAY 6-1/2 Ton Capacity, 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....	957.25	
<i>For Equipment Without Operator, Deduct</i>		
	-583.10	
01 22 23 00-1188 WK 6-1/2 Ton Capacity, 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....	3,970.87	
<i>For Equipment Without Operator, Deduct</i>		
	-2,915.51	
01 22 23 00-1189 MO 6-1/2 Ton Capacity, 16' Bed, 4 x 2 Flat Bed Truck With Full-Time Truck Driver .....	15,566.76	
<i>For Equipment Without Operator, Deduct</i>		
	-12,566.87	
<b>01 22 23 00-1190</b> <b>Light Off-Road Utility Passanger Vehicles</b> <small>(01 22 23 00-1179)</small>		
Note: Excludes operator		
01 22 23 00-1191 DAY 4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	160.00	

<b>01</b>	<b>General Requirements</b>
<b>01 20</b>	<b>Price And Payment Procedures</b>
<b>01 22</b>	<b>Unit Prices</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1192	WK		4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	370.00	
01 22 23 00-1193	MO		4 Wheel, 2 Person, Light Off Road Utility Passanger Vehicle.....	800.00	
01 22 23 00-1194	DAY		4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	165.00	
01 22 23 00-1195	WK		4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	385.00	
01 22 23 00-1196	MO		4 Wheel, 4 Person, Light Off Road Utility Passanger Vehicle.....	850.00	
<b>01 22 23 00-1197</b>			<b>Light Duty Trucks</b> (01 22 23 00-1179)		
01 22 23 00-1198	DAY		1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	801.55	
			<i>For Equipment Without Operator, Deduct</i>	-583.10	
01 22 23 00-1199	WK		1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	3,632.29	
			<i>For Equipment Without Operator, Deduct</i>	-2,915.51	
01 22 23 00-1200	MO		1/2 To 3/4 Ton, 4 x 2 Light Duty Conventional Pickup Truck With Full-Time Truck Driver.....	14,068.67	
			<i>For Equipment Without Operator, Deduct</i>	-12,566.84	
01 22 23 00-1201	DAY		3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	842.51	
			<i>For Equipment Without Operator, Deduct</i>	-583.10	
01 22 23 00-1202	WK		3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	3,755.17	
			<i>For Equipment Without Operator, Deduct</i>	-2,915.51	
01 22 23 00-1203	MO		3/4 Ton, 4 x 4 Crew Cab Pickup Truck With Full-Time Truck Driver.....	14,341.73	
			<i>For Equipment Without Operator, Deduct</i>	-12,566.84	
<b>01 22 23 00-1204</b>			<b>Rear Dump Trucks</b> (01 22 23 00-1179)		
01 22 23 00-1205	DAY		2.5 CY Rear Dump Truck With Full-Time Truck Driver.....	873.38	
			<i>For Equipment Without Operator, Deduct</i>	-576.44	
01 22 23 00-1206	WK		2.5 CY Rear Dump Truck With Full-Time Truck Driver.....	3,666.53	
			<i>For Equipment Without Operator, Deduct</i>	-2,882.22	
01 22 23 00-1207	MO		2.5 CY Rear Dump Truck With Full-Time Truck Driver.....	14,824.71	
			<i>For Equipment Without Operator, Deduct</i>	-12,423.38	
01 22 23 00-1208	DAY		4 CY Rear Dump Truck With Full-Time Truck Driver.....	978.48	
			<i>For Equipment Without Operator, Deduct</i>	-583.10	
01 22 23 00-1209	WK		4 CY Rear Dump Truck With Full-Time Truck Driver.....	4,004.83	
			<i>For Equipment Without Operator, Deduct</i>	-2,915.51	
01 22 23 00-1210	MO		4 CY Rear Dump Truck With Full-Time Truck Driver.....	15,390.99	
			<i>For Equipment Without Operator, Deduct</i>	-12,566.84	
01 22 23 00-1211	DAY		6 CY Rear Dump Truck With Full-Time Truck Driver.....	1,034.96	
			<i>For Equipment Without Operator, Deduct</i>	-583.10	
01 22 23 00-1212	WK		6 CY Rear Dump Truck With Full-Time Truck Driver.....	4,125.86	
			<i>For Equipment Without Operator, Deduct</i>	-2,915.51	
01 22 23 00-1213	MO		6 CY Rear Dump Truck With Full-Time Truck Driver.....	15,471.68	
			<i>For Equipment Without Operator, Deduct</i>	-12,566.84	
01 22 23 00-1214	DAY		13 CY Rear Dump Truck With Full-Time Truck Driver.....	1,704.69	
			<i>For Equipment Without Operator, Deduct</i>	-583.10	
01 22 23 00-1215	WK		13 CY Rear Dump Truck With Full-Time Truck Driver.....	5,505.66	
			<i>For Equipment Without Operator, Deduct</i>	-2,915.51	
01 22 23 00-1216	MO		13 CY Rear Dump Truck With Full-Time Truck Driver.....	19,344.80	
			<i>For Equipment Without Operator, Deduct</i>	-12,566.84	
01 22 23 00-1217	DAY		18 CY Rear Dump Truck With Full-Time Truck Driver.....	1,816.85	
			<i>For Equipment Without Operator, Deduct</i>	-583.10	
01 22 23 00-1218	WK		18 CY Rear Dump Truck With Full-Time Truck Driver.....	5,764.67	
			<i>For Equipment Without Operator, Deduct</i>	-2,915.51	
01 22 23 00-1219	MO		18 CY Rear Dump Truck With Full-Time Truck Driver.....	20,022.60	
			<i>For Equipment Without Operator, Deduct</i>	-12,566.84	
<b>01 22 23 00-1220</b>			<b>Vacuum Trucks</b> (01 22 23 00-1179)		
01 22 23 00-1221	DAY		5,000 Gallon Vacuum Truck With Full-Time Truck Driver.....	1,696.62	
			<i>For Equipment Without Operator, Deduct</i>	-583.10	
01 22 23 00-1222	WK		5,000 Gallon Vacuum Truck With Full-Time Truck Driver.....	6,268.99	
			<i>For Equipment Without Operator, Deduct</i>	-2,915.51	
01 22 23 00-1223	MO		5,000 Gallon Vacuum Truck With Full-Time Truck Driver.....	22,462.66	
			<i>For Equipment Without Operator, Deduct</i>	-12,566.84	
<b>01 22 23 00-1224</b>			<b>Water Trucks</b> (01 22 23 00-1179)		
			See CSI section 01 22 23 00-1240 for water trailer.		
01 22 23 00-1225	DAY		2,000 Gallon Water Truck With Full-Time Driver.....	1,068.42	
			<i>For Equipment Without Operator, Deduct</i>	-583.10	
			<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	2.55	
01 22 23 00-1226	WK		2,000 Gallon Water Truck With Full-Time Driver.....	4,193.53	
			<i>For Equipment Without Operator, Deduct</i>	-2,915.51	
			<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	2.55	
01 22 23 00-1227	MO		2,000 Gallon Water Truck With Full-Time Driver.....	15,586.64	
			<i>For Equipment Without Operator, Deduct</i>	-12,566.84	
			<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	2.55	
01 22 23 00-1228	DAY		3,700 To 4,000 Gallon Water Truck With Full-Time Driver.....	1,305.70	
			<i>For Equipment Without Operator, Deduct</i>	-583.10	
			<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	2.55	
01 22 23 00-1229	WK		3,700 To 4,000 Gallon Water Truck With Full-Time Driver.....	4,905.34	
			<i>For Equipment Without Operator, Deduct</i>	-2,915.51	
			<i>For Each 1,000 Gallon Of Purchased Water, Add</i>	2.55	



		<b>General Requirements</b>	<b>01</b>
		Price And Payment Procedures	01 20
		Unit Prices	01 22

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 22 23 00-1230	MO		3,700 To 4,000 Gallon Water Truck With Full-Time Driver ..... <i>For Equipment Without Operator, Deduct</i> <i>For Each 1,000 Gallon Of Purchased Water, Add</i>	17,420.09 -12,566.84 2.55	
<b>01 22 23 00-1231 Asphalt Distribution Trucks</b> (01 22 23 00-1179)					
01 22 23 00-1232	DAY		3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	1,577.65 -583.10	
01 22 23 00-1233	WK		3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	5,886.39 -2,915.51	
01 22 23 00-1234	MO		3,000 Gallon Asphalt Prime Coat Distribution Truck With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	21,349.50 -12,566.84	
<b>01 22 23 00-1235 Traffic Control Truck With Mounted Impact Attenuators/Crash Cushions And Arrow Board</b> (01 22 23 00-1179)					
01 22 23 00-1236	DAY		Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion, Arrow Board With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	1,211.44 -576.44	
01 22 23 00-1237	WK		Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	4,154.22 -2,882.22	
01 22 23 00-1238	MO		Traffic Control Truck With Mounted Impact Attenuator/Crash Cushion And Arrow Board With Full-Time Truck Driver ..... <i>For Equipment Without Operator, Deduct</i>	15,512.40 -12,423.40	
<b>01 22 23 00-1239 Trailers</b> (01 22 23 00-1178) Note: Includes delivery to job site and pick-up when complete.					
<b>01 22 23 00-1240 Water Trailers With Pump</b> (01 22 23 00-1239)					
01 22 23 00-1241	DAY		500 To 600 Gallon Water Trailer With Pump .....	124.03	
01 22 23 00-1242	WK		500 To 600 Gallon Water Trailer With Pump .....	318.16	
01 22 23 00-1243	MO		500 To 600 Gallon Water Trailer With Pump .....	852.02	

**01 30 Administrative Requirements** (01)

**01 32 Construction Progress Documentation** (01 30)

**01 32 33 Photographic Documentation** (01 32)

**01 32 33 00-0001 Aerial Survey And Photography** (01 32 33)  
Note: Cost per single location, 15 to 20 photos, up to 6 proofs developed, pictures 8" x 10" or 8-1/2" x 11".

01 32 33 00-0002	EA		Aerial Photography, 1 Site Within City, 15-20 Photos, 6 Proofs..... <i>For Each Additional City Location, 15-20 Photos, 6 Proofs, Add</i> <i>For Each Mile Outside The City Area, Add</i> <i>For Color Prints Instead Of Black And White, Add</i>	1,325.84 175.00 3.00 397.75	
01 32 33 00-0003	EA		5 Minute Aerial Video With 3 Tapes And 11 x 14 Still Photograph ..... <i>For Each Additional City Location, 15-20 Photos, 6 Proofs, Add</i> <i>For Each Mile Outside The City Area, Add</i>	1,477.60 175.00 3.00	
01 32 33 00-0004	HR		Aerial Tour Of Project Site Up To 3 Passengers (Helicopter) .....	998.38	

**01 40 Quality Requirements** (01)

**01 45 Quality Control** (01 40)

**01 45 23 Testing And Inspecting Services** (01 45)

Note: For application to existing materials/site conditions only. Includes acquisition and maintenance of sample (for laboratory tests) to include shipping as required, applicable equipment for field tests, and appropriate test reports.

**01 45 23 00-0001 Soils/Aggregate Testing** (01 45 23)

**01 45 23 00-0002 Field Soils Tests** (01 45 23 00-0001)

01 45 23 00-0003	EA		Plasticity Index Soils Test, ASTM D-4318, Field Soils Test .....	182.36	
01 45 23 00-0004	EA		4" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test .....	258.83	
01 45 23 00-0005	EA		6" Compaction Curves Soils Test, ASTM D-1557, Field Soils Test .....	294.12	
01 45 23 00-0006	EA		Resistance (R) Value Soils Test, CA 301, Field Soils Test .....	235.30	
01 45 23 00-0007	EA		Soils Classification Test, ASTM D-2487, Field Soils Test.....	352.95	
01 45 23 00-0008	SET		Cement Treated Base Laboratory Design, Soil Cement, Field Soils Test.....	705.68	
01 45 23 00-0009	EA		Moisture Content, Field Soils Test.....	26.46	
01 45 23 00-0010	EA		UBC Or Swell Test, Field Soils Test.....	92.71	
01 45 23 00-0011	EA		Proctor Compaction 4" Standard Mold ASTM D698, Field Soils Test.....	176.42	
01 45 23 00-0012	EA		Proctor Compaction 6" Standard Mold, Field Soils Test .....	220.52	
01 45 23 00-0013	EA		Density And Classification Test, Field Soils Test.....	70.57	
01 45 23 00-0014	EA		Percolation Test, Field Soils Test .....	176.42	
01 45 23 00-0015	EA		Infiltration Test, Field Soils Test.....	352.84	
<b>01 45 23 00-0016 Soil Borings Laboratory Tests</b> (01 45 23 00-0001)					
01 45 23 00-0017	EA		Atterberg Limits - Liquid Limits (LL) And Plastic Limits (PL), T89, T90, ASTM D4318, Soil Borings Laboratory Test.....	80.98	
01 45 23 00-0018	EA		Shrinkage Limit, Soil Borings Laboratory Test.....	25.84	

**01 General Requirements****01 40 Quality Requirements****01 45 Quality Control**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0019	EA		Unconfined Compressive Strength of Cohesive Soils, Soil Borings Laboratory Test.....	62.30	
01 45 23 00-0020	EA		Consolidation, Soil Borings Laboratory Test.....	436.06	
01 45 23 00-0021	EA		Swell Test, Soil Borings Laboratory Test.....	86.14	
01 45 23 00-0022	EA		In Place Density, Soil Borings Laboratory Test.....	18.69	
01 45 23 00-0023	EA		Moisture Content, ASTM D2216, Soil Borings Laboratory Test.....	11.61	
01 45 23 00-0024	EA		Hydrometer Analysis, Soil Borings Laboratory Test.....	149.89	
01 45 23 00-0025	EA		Specific Gravity, ASTM D854, Soil Borings Laboratory Test.....	52.27	
01 45 23 00-0026	EA		Partial Sieve Analysis, Soil Borings Laboratory Test.....	10.34	
01 45 23 00-0027	EA		Laboratory Permeability, Soil Borings Laboratory Test.....	516.87	
01 45 23 00-0028	EA		Sieve Analysis, ASTM D422, Soil Borings Laboratory Test.....	104.54	
01 45 23 00-0029	EA		Sulfate Soundness, Soil Borings Laboratory Test.....	129.22	
01 45 23 00-0030	EA		Los Angeles Abrasion, Soil Borings Laboratory Test.....	301.29	
01 45 23 00-0031	EA		California Bearing Ratio, ASTM D1883.....	264.71	
01 45 23 00-0032	EA		Compaction Test Subgrade, Soil Borings Laboratory Test.....	77.53	
01 45 23 00-0033	EA		Compaction Test Base Course, Soil Borings Laboratory Test.....	65.59	
01 45 23 00-0034	EA		In Place Density And Water Content Test By Nuclear Methods, ASTM D6938, Soil Borings Laboratory Test.....	254.94	
01 45 23 00-0035	EA		Field Density Sand Cone, AASHTO T-191, ASTM D1556, Soil Borings Laboratory Test.....	39.63	
<b>01 45 23 00-0036</b>			<b>Aggregate Testing (01 45 23 00-0001)</b>		
01 45 23 00-0037	EA		Coarse Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	58.82	
01 45 23 00-0038	EA		Fine Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	105.88	
01 45 23 00-0039	EA		Combined Aggregate Sieve Analysis Test, ASTM C-136, CA 202.....	147.06	
01 45 23 00-0040	EA		Sieve Analysis, Pit Run, ASTM C136.....	114.67	
			Note: Includes wash.		
01 45 23 00-0041	EA		Specific Special Gravity, Course, ASTM C127.....	93.44	
			Note: Includes absorption test.		
01 45 23 00-0042	EA		Special Gravity, Fine, ASTM C127.....	83.80	
			Note: Includes absorption test.		
01 45 23 00-0043	EA		Coarse Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	124.59	
01 45 23 00-0044	EA		Fine Aggregate Bulk SSD Specific Gravity Test, ASTM C-128.....	117.65	
01 45 23 00-0045	EA		Aggregate Cleanness Value, ASTM C-128, CA 227.....	117.65	
01 45 23 00-0046	EA		Sand Equivalent, Average of 3 Tests, ASTM D2419, CA 217.....	88.24	
01 45 23 00-0047	EA		Fine Aggregate Durability Index, CA 229.....	94.12	
01 45 23 00-0048	EA		Sodium And Magnesium Soundness, ASTM C88.....	246.99	
01 45 23 00-0049	EA		Los Angeles Rattler, ASTM C-131, CA 211.....	188.24	
01 45 23 00-0050	EA		Los Angeles Rattler, ASTM C-535.....	188.24	
01 45 23 00-0051	EA		Unit Weight Of Aggregates, ASTM C29.....	52.94	
01 45 23 00-0052	EA		Organic Impurities In Sand, ASTM C40.....	52.93	
01 45 23 00-0053	EA		Crushed Particle, ASTM California Test Method.....	52.93	
01 45 23 00-0054	EA		Clay Lump And Friable Particles, ASTM C142.....	105.85	
<b>01 45 23 00-0055</b>			<b>Permeability Tests (01 45 23 00-0001)</b>		
<b>01 45 23 00-0056</b>			<b>In-Place Tests (01 45 23 00-0055)</b>		
01 45 23 00-0057	EA		Double Ring Infiltrometer Test, ASTM D3385.....	934.42	
01 45 23 00-0058	EA		Unconfined Compressive Strength (Pocket Penetrometer) Test.....	44.10	
<b>01 45 23 00-0059</b>			<b>Lab Tests (01 45 23 00-0055)</b>		
01 45 23 00-0060	EA		Falling Head Rigid Wall Consolidometer Technique CAE.....	436.06	
01 45 23 00-0061	EA		Falling Head Permeability Test EPA-9100.....	436.06	
01 45 23 00-0062	EA		Constant Head Permeability Test For Granular Soils, ASTM D2432.....	249.18	
<b>01 45 23 00-0063</b>			<b>Concrete/Cement/Asphalt Testing (01 45 23)</b>		
<b>01 45 23 00-0064</b>			<b>Concrete Testing (01 45 23 00-0063)</b>		
01 45 23 00-0065	EA		Prepare 6 x 12 Concrete Cylinder And Deliver To Lab.....	18.44	
01 45 23 00-0066	EA		6 x 12 Cylinder Concrete Compression Test, ASTM C-39 Or ASTM D1633.....	37.38	
01 45 23 00-0067	EA		Concrete Cores Compression Test, ASTM C-42.....	76.47	
01 45 23 00-0068	EA		6 x 6 x 18 Concrete Flexural Test, ASTM C-78.....	111.77	
01 45 23 00-0069	EA		Unit Weight Of Concrete Cylinder, ASTM C-567.....	41.18	
01 45 23 00-0070	EA		Concrete Mix Design Review.....	223.54	
01 45 23 00-0071	EA		Trial Concrete Batch Prepared In Laboratory.....	529.42	
01 45 23 00-0072	EA		Concrete Shrinkage, ASTM C-157 Modified.....	411.78	
01 45 23 00-0073	EA		6 x 12 Concrete Cylinder Splitting Tensile Test, ASTM C-496.....	63.53	
01 45 23 00-0074	EA		Concrete Slump Test, ASTM C143.....	29.41	
01 45 23 00-0075	EA		Concrete Air Content Test, ASTM C138, ASTM C173, Or ASTM C231.....	29.41	
<b>01 45 23 00-0076</b>			<b>Cement Testing (01 45 23 00-0063)</b>		
01 45 23 00-0077	EA		Cement Grab Sample (CCR Title 24).....	29.41	
			Note: Includes sealing and storing 1 year.		
01 45 23 00-0078	EA		2" x 2" x 2" Cube Compression Test, All Type Materials.....	47.06	
<b>01 45 23 00-0079</b>			<b>Asphaltic Concrete Testing (01 45 23 00-0063)</b>		
01 45 23 00-0080	EA		Hveem Asphaltic Concrete Stability Test, CA 366.....	58.82	
01 45 23 00-0081	EA		Marshall Asphaltic Concrete Stability Test (3 Specimens), ASTM D-6926/6927.....	152.94	



		<b>General Requirements</b>	<b>01</b>
		Quality Requirements	01 40
		Quality Control	01 45

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 45 23 00-0082 EA Stability Tests, Premixed, ASTM D1559.....	58.82	
01 45 23 00-0083 EA Stability Tests, Lab. Mixed, ASTM D1559.....	152.94	
01 45 23 00-0084 EA Swell Test, CA 305.....	70.59	
Note: Includes compaction.		
01 45 23 00-0085 EA % Asphalt Extraction Test, ASTM D-2172 B.....	176.48	
01 45 23 00-0086 EA Maximum Theoretical Unit Weight, ASTM C2041.....	112.13	
01 45 23 00-0087 EA Unit Weight Sample Requiring Compaction, California Test Method 308.....	23.53	
01 45 23 00-0088 EA Asphalt Unit Weight On Core Test, CA 308C.....	23.53	
01 45 23 00-0089 HR Nuclear Field Density Testing, 4 Hour Minimum.....	121.18	
01 45 23 00-0090 EA Asphalt Film Stripping Test, CTM 302/AASHTO T182/ASTM D1664.....	79.39	
01 45 23 00-0091 EA Penetration, ASTM D5.....	84.98	
<b>01 45 23 00-0092 Masonry/Concrete Block/Tile Testing (01 45 23)</b>		
<b>01 45 23 00-0093 Masonry Testing (01 45 23 00-0092)</b>		
01 45 23 00-0094 EA 2" x 4" Cylinder Mortar Compression Test.....	38.82	
01 45 23 00-0095 EA 4" x 4" x 8" Grout Prisms Compression Test.....	38.82	
01 45 23 00-0096 EA Masonry Cores Compression Test.....	76.47	
01 45 23 00-0097 EA Composite Grouted Prism Compression Test.....	147.06	
<b>01 45 23 00-0098 Concrete Block Testing (ASTM C140 Or CMA Per Specimen) (01 45 23 00-0092)</b>		
01 45 23 00-0099 EA Up To 8" x 8" x 16" Concrete Block Compression Test, ASTM C-140.....	94.12	
01 45 23 00-0100 EA Absorption Test, Moisture Content And Unit Weight.....	64.71	
01 45 23 00-0101 EA Moisture Condition By Relative Humidity, ASTM C427, First Unit.....	246.99	
01 45 23 00-0102 EA Moisture Condition By Relative Humidity, ASTM C427, Additional Unit.....	123.49	
<b>01 45 23 00-0103 Metals Testing (01 45 23)</b>		
<b>01 45 23 00-0104 Tank Line Tightness Testing (01 45 23 00-0103)</b>		
01 45 23 00-0105 EA Up To 12,000 Gallons, Tank Line Volumetric Tightness Testing.....	446.90	
01 45 23 00-0106 EA >12,000 To 29,999 Gallons, Tank Line Volumetric Tightness Testing.....	496.24	
01 45 23 00-0107 EA >29,999 Gallons, Tank Line Volumetric Tightness Testing.....	545.40	
<b>01 45 23 00-0108 Other Testing (01 45 23)</b>		
<b>01 45 23 00-0109 Special Testing (01 45 23 00-0108)</b>		
01 45 23 00-0110 EA Asphalt Roofing Cut-out Samples, To Determine Unit Weight.....	91.20	
01 45 23 00-0111 EA Complete Built-Up Roof Analysis, ASTM D2829 Or ASTM D3617.....	547.17	
01 45 23 00-0112 EA Bacteria Test (Total Coliform Bacteria And E. Coli Bacteria).....	27.51	
01 45 23 00-0113 EA Testing For The Presence Of PCBs In Caulk, Analysis Per Sample.....	114.04	
01 45 23 00-0114 EA Testing For The Presence Of PCBs In Soil, Analysis Per Sample.....	114.04	
01 45 23 00-0115 EA Testing For The Presence Of PCBs Using Wipe Sampling, Analysis Per Sample.....	114.04	
01 45 23 00-0116 EA Testing For The Presence Of PCBs In Air, Analysis Per Sample.....	627.22	
<b>01 45 23 00-0117 Nondestructive Field Testing Services (01 45 23 00-0108)</b>		
<b>01 45 23 00-0118 Infrared Thermography (01 45 23 00-0117)</b>		
Note: The following tasks use certified infrared (IR) thermographers, such as Stockton Infrared Thermographic Services, Inc. and United Infrared, Inc., to scan for specific problems and produce a report on the findings. The contractor is entitled to the mobilization charge and the appropriate square foot or hourly task.		
<b>01 45 23 00-0119 Roof Investigation And Moisture Survey Using Infrared Thermography (01 45 23 00-0118)</b>		
Note: For on the roof surveys.		
01 45 23 00-0120 EA Roof Investigation And Moisture Survey Using Infrared Thermography, Mobilization Charge.....	2,052.72	
01 45 23 00-0121 CSF Up To 10,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	3.42	
For CADD Drawings, Add		
	0.68	
01 45 23 00-0122 CSF >10,000 To 50,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	2.28	
For CADD Drawings, Add		
	0.46	
01 45 23 00-0123 CSF >50,000 To 250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	1.71	
For CADD Drawings, Add		
	0.34	
For Elevated Infrared Thermography Roof Investigation, Add		
	0.43	
For Aerial Infrared Thermography Roof Investigation, Add		
	0.43	
01 45 23 00-0124 CSF >250,000 SF, Roof Investigation And Moisture Survey Using Infrared Thermography.....	1.14	
For CADD Drawings, Add		
	0.23	
For Elevated Infrared Thermography Roof Investigation, Add		
	0.29	
For Aerial Infrared Thermography Roof Investigation, Add		
	0.29	
<b>01 45 23 00-0125 Building Moisture Investigation Using Infrared Thermography (01 45 23 00-0118)</b>		
Note: For finding moisture in walls and windows.		
01 45 23 00-0126 EA Building Moisture Investigation Using Infrared Thermography, Mobilization Charge.....	1,083.38	
01 45 23 00-0127 CSF Up To 1,000 SF, Building Moisture Investigation Using Infrared Thermography.....	3.42	
For Digital Or Analog Recording Of All Items, Add		
	1.71	
01 45 23 00-0128 CSF >1,000 To 5,000 SF, Building Moisture Investigation Using Infrared Thermography.....	2.28	
For Digital Or Analog Recording Of All Items, Add		
	1.14	
01 45 23 00-0129 CSF >5,000 SF, Building Moisture Investigation Using Infrared Thermography.....	1.14	
For Digital Or Analog Recording Of All Items, Add		
	0.57	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 40</b>	<b>Quality Requirements</b>
	<b>01 45</b>	<b>Quality Control</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>01 45 23 00-0130</b>	<b>General Building Investigation Using Infrared Thermography</b> <small>(01 45 23 00-0118)</small> Note: For finding missing or misplaced insulation, air leakage and delamination.		
01 45 23 00-0131	EA General Building Investigation Using Infrared Thermography, Mobilization Charge .....	2,223.78	
01 45 23 00-0132	CSF Up To 1,000 SF, General Building Investigation Using Infrared Thermography .....	3.42	
	<i>For Digital Or Analog Recording Of All Items, Add</i>	1.71	
01 45 23 00-0133	CSF >1,000 To 5,000 SF, General Building Investigation Using Infrared Thermography .....	2.28	
	<i>For Digital Or Analog Recording Of All Items, Add</i>	1.14	
01 45 23 00-0134	CSF >5,000 SF, General Building Investigation Using Infrared Thermography .....	1.14	
	<i>For Digital Or Analog Recording Of All Items, Add</i>	0.57	

<b>01 45 23 00-0135</b>	<b>Electrical /Mechanical Equipment Scanning Using Infrared Thermography</b> <small>(01 45 23 00-0118)</small> Note: For diagnosing electrical issues such as loose connections, overloaded or imbalanced circuits, faulty breakers, damaged switches, faulty fuses, etc. For diagnosing electrical issues caused by resistance and mechanical issues caused by friction.		
01 45 23 00-0136	EA Electrical /Mechanical Equipment Scanning Using Infrared Thermography, Mobilization Charge .....	1,083.38	
01 45 23 00-0137	HR Electrical /Mechanical Equipment Scanning Using Infrared Thermography .....	191.80	
	<i>For Digital Or Analog Recording Of All Items, Add</i>	28.72	

<b>01 45 23 00-0138</b>	<b>Concrete Block Wall Investigation Using Infrared Thermography</b> <small>(01 45 23 00-0118)</small> Note: For investigating issues with grouted cells, bond beams and other structural components in concrete block walls.		
01 45 23 00-0139	EA Concrete Block Wall Investigation Using Infrared Thermography, Mobilization Charge .....	1,083.38	
01 45 23 00-0140	CSF Up To 50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography .....	3.42	
	<i>For Digital Or Analog Recording Of All Items, Add</i>	0.51	
01 45 23 00-0141	CSF >50,000 SF, Concrete Block Wall Investigation Using Infrared Thermography .....	2.28	
	<i>For Digital Or Analog Recording Of All Items, Add</i>	0.34	

<b>01 45 23 00-0142</b>	<b>Other Nondestructive Field Testing Services</b> <small>(01 45 23 00-0117)</small>		
01 45 23 00-0143	HR ASNT Certified Level I NDT Consultant .....	77.85	
01 45 23 00-0144	HR ASNT Certified Level II NDT Consultant .....	86.34	
01 45 23 00-0145	HR ASNT Certified Level III NDT Consultant .....	94.84	
01 45 23 00-0146	HR Certified Industrial Radiography Radiation Safety Personnel .....	93.50	

<b>01 45 23 00-0147</b>	<b>Testing Professional Services</b> <small>(01 45 23 00-0108)</small>		
01 45 23 00-0148	HR Concrete, Steel, Masonry, Expansion Anchor And Soils Inspection .....	109.41	
01 45 23 00-0149	HR Laboratory Technician .....	105.88	
01 45 23 00-0150	HR Portable Digital Reinforcement Scanner .....	152.94	
01 45 23 00-0151	HR Subsurface Detection Radar System .....	258.83	
01 45 23 00-0152	HR Pavement Rehabilitation Analysis Using Deflectors .....	294.12	
01 45 23 00-0153	HR Associate Engineer .....	152.94	
01 45 23 00-0154	HR Staff Engineer .....	141.18	
01 45 23 00-0155	HR Project Manager .....	135.30	
01 45 23 00-0156	HR Principal Engineer .....	205.89	
01 45 23 00-0157	HR Consulting Engineer .....	164.71	

**01 50 Temporary Facilities And Controls** (01)  
Note: Tasks in this section shall be used as directed by owner.

**01 51 Temporary Utilities** (01 50)

**01 51 13 Temporary Electricity** (01 51)

<b>01 51 13 00-0001</b>	<b>Service Switch And/Or Building Feeder Switch</b> <small>(01 51 13)</small> Note: Includes all connections and removal after use.		
01 51 13 00-0002	EA Temporary 100 Amp, NEMA 1 Or 3R Disconnect Switch With Fuses .....	1,273.40	
01 51 13 00-0003	EA Temporary 200 Amp, NEMA 1 Or 3R Disconnect Switch With Fuses .....	1,987.27	
01 51 13 00-0004	EA Temporary 400 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses .....	3,603.90	
01 51 13 00-0005	EA Temporary 600 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses .....	5,802.23	
01 51 13 00-0006	EA Temporary 800 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses .....	7,842.43	
01 51 13 00-0007	EA Temporary 1,200 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses .....	12,580.24	
01 51 13 00-0008	EA Temporary 2,000 Amp, 240 Volt, NEMA 3R Service Switch Or Building Feeder Switch With Fuses .....	17,510.34	

<b>01 51 13 00-0009</b>	<b>120/208 Volt Main Lug Panelboard Complete With Branch Fuses</b> <small>(01 51 13)</small> Note: Includes removal after use.		
01 51 13 00-0010	EA Temporary 100 Amp Panelboard Complete With GFCI Circuit Breakers .....	1,273.09	
01 51 13 00-0011	EA Temporary 200 Amp Panelboard Complete With GFCI Circuit Breakers .....	1,823.15	
01 51 13 00-0012	EA Temporary 400 Amp Panelboard Complete With GFCI Circuit Breakers .....	2,840.23	
01 51 13 00-0013	EA Temporary 600 Amp Panelboard Complete With GFCI Circuit Breakers .....	4,107.63	

**01 51 13 00-0014** **Temporary Conduit And Cable For Temporary Disconnect Switches And Temporary Panelboards** (01 51 13)  
Note: Includes all connections, fittings, supports and removal after use.





<b>General Requirements</b>	<b>01</b>	
Temporary Facilities And Controls	01 50	10
Temporary Utilities	01 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 51 13 00-0015 LF Temporary SER Cable (Conduit As Required) For Temporary Disconnect Switches And Temporary Panelboards.....	6.29	
01 51 13 00-0016 LF Temporary Branch Circuit Conduit And Wiring For Temporary Disconnect Switches And Temporary Panelboards.....	6.89	
<b>01 51 13 00-0017 Cord Grip Plug</b> <small>(01 51 13)</small>		
Note: Includes installation, a maximum of 50' of cord, connection to source and removal after use.		
01 51 13 00-0018 EA Temporary 2 Pole Cord Grip Plug With Installation .....	263.95	
01 51 13 00-0019 EA Temporary 3 Pole Cord Grip Plug With Installation .....	395.06	
01 51 13 00-0020 EA Temporary 4 Pole Cord Grip Plug With Installation .....	493.75	
01 51 13 00-0021 EA Temporary 3 Pole (30 A) Cord Grip Plug With Installation.....	384.44	
01 51 13 00-0022 EA Temporary 4 Pole (30 A) Cord Grip Plug With Installation.....	476.77	
01 51 13 00-0023 EA Temporary 3 Pole (50 A) Cord Grip Plug With Installation.....	422.18	
<b>01 51 26 Temporary Lighting</b> <small>(01 51)</small>		
<b>01 51 26 00-0001 Temporary Devices</b> <small>(01 51 26)</small>		
Note: Includes removal after use.		
01 51 26 00-0002 EA Temporary Exit Light.....	311.33	
01 51 26 00-0003 EA Temporary Light Socket With Branch Wiring Connection And Lamp .....	36.01	
01 51 26 00-0004 EA Temporary 10 Light String With Cages.....	105.94	
01 51 26 00-0005 EA Temporary GFI Device With Enclosure And Branch Wiring.....	344.29	
01 51 26 00-0006 EA Temporary Trailer Socket With Branch Wiring.....	123.01	
01 51 26 00-0007 EA Temporary High Bay Light .....	387.86	
<b>01 52 Construction Facilities</b> <small>(01 50)</small>		
Note: Tasks in this section shall be used as directed by owner for owner's use.		
<b>01 52 13 Field Offices And Sheds</b> <small>(01 52)</small>		
<b>01 52 13 00-0001 Field Offices</b> <small>(01 52 13)</small>		
Note: Excludes furniture, utility connections and service. Minimum 6 months rental.		
01 52 13 00-0002 MO 8' x 24' Office, With Toilet .....	163.97	
For Each Delivery And Removal, Round Trip, Add		638.13
For Each Set-Up (Block And Level), Add		82.73
For Each Anchoring Into Dirt, Add		134.99
For Each Anchoring Into Asphalt Or Concrete, Add		202.49
For Office Trailer Without Toilet, Deduct		-32.79
01 52 13 00-0003 MO 8' x 32' Office, With Toilet .....	185.82	
For Each Delivery And Removal, Round Trip, Add		638.13
For Each Set-Up (Block And Level), Add		82.73
For Each Anchoring Into Dirt, Add		134.99
For Each Anchoring Into Asphalt Or Concrete, Add		202.49
For Office Trailer Without Toilet, Deduct		-37.16
01 52 13 00-0004 MO 10' x 36' Office, With Toilet .....	251.41	
For Each Delivery And Removal, Round Trip, Add		1,057.96
For Each Set-Up (Block And Level), Add		134.97
For Each Anchoring Into Dirt, Add		134.99
For Each Anchoring Into Asphalt Or Concrete, Add		202.49
For Office Trailer Without Toilet, Deduct		-50.28
01 52 13 00-0005 MO 10' x 40' Office, With Toilet .....	267.81	
For Each Delivery And Removal, Round Trip, Add		1,057.96
For Each Set-Up (Block And Level), Add		134.97
For Each Anchoring Into Dirt, Add		134.99
For Each Anchoring Into Asphalt Or Concrete, Add		202.49
For Office Trailer Without Toilet, Deduct		-53.56
01 52 13 00-0006 MO 10' x 44' Office, With Toilet .....	295.14	
For Each Delivery And Removal, Round Trip, Add		1,057.96
For Each Set-Up (Block And Level), Add		134.97
For Each Anchoring Into Dirt, Add		134.99
For Each Anchoring Into Asphalt Or Concrete, Add		202.49
01 52 13 00-0007 MO 10' x 50' Office, With Toilet .....	311.53	
For Each Delivery And Removal, Round Trip, Add		1,057.96
For Each Set-Up (Block And Level), Add		134.97
For Each Anchoring Into Dirt, Add		134.99
For Each Anchoring Into Asphalt Or Concrete, Add		202.49
01 52 13 00-0008 MO 12' x 44' Office, With Toilet .....	563.92	
For Each Delivery And Removal, Round Trip, Add		1,057.96
For Each Set-Up (Block And Level), Add		134.97
For Each Anchoring Into Dirt, Add		134.99
For Each Anchoring Into Asphalt Or Concrete, Add		202.49
01 52 13 00-0009 MO 12' x 50' Office, With Toilet .....	366.19	
For Each Delivery And Removal, Round Trip, Add		1,057.96
For Each Set-Up (Block And Level), Add		134.97
For Each Anchoring Into Dirt, Add		134.99
For Each Anchoring Into Asphalt Or Concrete, Add		202.49
01 52 13 00-0010 MO 12' x 60' Office, With Toilet .....	398.98	
For Each Delivery And Removal, Round Trip, Add		1,057.96
For Each Set-Up (Block And Level), Add		134.97
For Each Anchoring Into Dirt, Add		134.99
For Each Anchoring Into Asphalt Or Concrete, Add		202.49

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 50</b>	<b>Temporary Facilities And Controls</b>
	<b>01 52</b>	<b>Construction Facilities</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 52 13 00-0011	MO		24' x 60' Office, With Toilet <i>For Each Delivery And Removal, Round Trip, Add</i> <i>For Each Set-Up (Block And Level), Add</i> <i>For Each Anchoring Into Dirt, Add</i> <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	874.47 2,015.16 217.70 134.99 202.49	
01 52 13 00-0012	MO		24' x 72' Office, With Toilet <i>For Each Delivery And Removal, Round Trip, Add</i> <i>For Each Set-Up (Block And Level), Add</i> <i>For Each Anchoring Into Dirt, Add</i> <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	1,049.37 2,015.16 217.70 134.99 202.49	
01 52 13 00-0013	MO		30' x 30' Office, With Toilet <i>For Each Delivery And Removal, Round Trip, Add</i> <i>For Each Set-Up (Block And Level), Add</i> <i>For Each Anchoring Into Dirt, Add</i> <i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	498.72 2,015.16 217.70 134.99 202.49	
<b>01 52 13 00-0014</b>			<b>Accessories For Field Office Trailers</b> <small>(01 52 13)</small> Note: Costs includes installation or placement in trailer.		
01 52 13 00-0015	MO		Desk For Field Office Trailer	30.35	
01 52 13 00-0016	MO		Rolling Desk Chair For Field Office Trailer	18.97	
01 52 13 00-0017	MO		File Cabinet For Field Office Trailer	22.76	
01 52 13 00-0018	MO		Table For Field Office Trailer	15.18	
01 52 13 00-0019	MO		Folding Chair For Field Office Trailer	7.19	
01 52 13 00-0020	EA		Phone Hook-Up For Field Office Trailer	83.46	
01 52 13 00-0021	MO		Local Phone Service Per Phone Line For Field Office Trailer	53.11	
01 52 13 00-0022	MO		Security System With Monitoring For Field Office Trailer	80.00	
01 52 13 00-0023	LF		Perimeter Trailer Skirting For Field Office Trailer	27.41	
01 52 13 00-0024	LF		Insulated Perimeter Trailer Skirting For Field Office Trailer	49.84	
01 52 13 00-0025	MO		Steps For Field Office Trailer	25.00	
01 52 13 00-0026	MO		Fax Machine For Field Office Trailer	37.94	
01 52 13 00-0027	MO		Copier For Field Office Trailer	60.70	
<b>01 52 13 00-0028</b>			<b>Storage Containers</b> <small>(01 52 13)</small>		
01 52 13 00-0029	MO		8' x 8' x 10' Storage Container <i>For Delivery And Pick-up Of Container, Add</i> <i>For &gt;12 Months, Deduct</i>	96.25 175.14 -28.88	
01 52 13 00-0030	MO		8' x 8' x 20' Storage Container <i>For Delivery And Pick-up Of Container, Add</i> <i>For &gt;12 Months, Deduct</i>	100.62 192.65 -30.19	
01 52 13 00-0031	MO		8' x 8' x 40' Storage Container <i>For Delivery And Pick-up Of Container, Add</i> <i>For &gt;12 Months, Deduct</i>	119.00 387.99 -35.70	
<b>01 52 19</b>			<b>Sanitary Facilities</b> <small>(01 52)</small>		
<b>01 52 19 00-0001</b>			<b>Portable Toilets</b> <small>(01 52 19)</small> Note: Includes delivery, set-up, servicing once per week and removal.		
01 52 19 00-0002	WK		Portable Toilets, Chemical <i>For Each Additional Servicing Per Unit Per Week, Add</i> <i>For Delivery, Add</i>	31.66 25.00 50.00	
01 52 19 00-0003	MO		Portable Toilets, Chemical <i>For Each Additional Servicing Per Unit Per Week, Add</i> <i>For Delivery, Add</i>	94.99 25.00 50.00	
01 52 19 00-0004	WK		ADA Portable Toilets, Chemical <i>For Each Additional Servicing Per Unit Per Week, Add</i> <i>For Delivery, Add</i>	37.77 25.00 50.00	
01 52 19 00-0005	MO		ADA Portable Toilets, Chemical <i>For Each Additional Servicing Per Unit Per Week, Add</i> <i>For Delivery, Add</i>	110.82 25.00 50.00	
01 52 19 00-0006	WK		Two Station Portable Handwash	29.08	
01 52 19 00-0007	MO		Two Station Portable Handwash	88.21	
01 52 19 00-0008	MO		Portable Toilets, Multi Trailer - 16' Note: Includes women's room (3 toilets, 2 sinks) and men's room (1 toilet, 1 urinal and 1 sink)	2,663.50	
01 52 19 00-0009	WK		Service Trailer Restrooms, 3 Times Per Week	1,996.75	
<b>01 54</b>			<b>Construction Aids</b> <small>(01 50)</small>		
<b>01 54 23</b>			<b>Temporary Scaffolding And Platforms</b> <small>(01 54)</small>		
<b>01 54 23 00-0001</b>			<b>Scaffolding</b> <small>(01 54 23)</small> Note: Additional scaffolding rental for work above the normal working height of 14'.		
<b>01 54 23 00-0002</b>			<b>Scaffolding Rental - Rental Only</b> <small>(01 54 23 00-0001)</small> Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps and building ties, etc. See CSI section 01 54 23 00-0006 for scaffolding erection and dismantling.		
01 54 23 00-0003	CCF		Scaffolding With Bracing Accessories - Area Based On 5' Wide Sections (CCF / Month) <i>For Up To 25, Add</i> <i>For &gt;25 To 50, Add</i> <i>For &gt;50 To 150, Add</i>	30.57 12.23 7.64 3.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0004 CCF Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	34.37	
<i>For Up To 25, Add</i>	13.75	
<i>For &gt;25 To 50, Add</i>	8.59	
<i>For &gt;50 To 150, Add</i>	3.44	
01 54 23 00-0005 CCF Scaffolding With Bracing Accessories - Area Based On 3' Wide Sections (CCF / Month).....	45.85	
<i>For Up To 25, Add</i>	18.34	
<i>For &gt;25 To 50, Add</i>	11.46	
<i>For &gt;50 To 150, Add</i>	4.59	
<b>01 54 23 00-0006 Scaffolding Erection And Dismantling - Labor Only</b> <small>(01 54 23 00-0001)</small>		
<small>Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0002 for scaffolding rental.</small>		
01 54 23 00-0007 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....	45.41	
01 54 23 00-0008 CCF >20' To 40' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....	56.77	
01 54 23 00-0009 CCF >40' To 60' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....	68.12	
01 54 23 00-0010 CCF >60' To 80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....	74.93	
01 54 23 00-0011 CCF >80' Height Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories .....	86.28	
01 54 23 00-0012 CCF Up To 20' Height Scaffolding Initial Erection And Final Dismantling Set Up On Stairs, Per CCF Of Scaffolding And Accessories .....	54.50	
<b>01 54 23 00-0013 Heavy Duty Masonry Scaffolding Rental - Rental Only</b> <small>(01 54 23 00-0001)</small>		
<small>Note: Monthly rental of actual scaffolding volume rented. Scaffolding is complete with bracing, 2" thick x 12" wide scaffolding planks, scaffolding stairs (where necessary in lieu of planks), standard accessories, base leveling devices, mud sills, climbing ladders and landings, brackets, clamps, flat plate, connectors and building ties, etc. See CSI section 01 54 23 00-0020 for erection.</small>		
01 54 23 00-0014 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 4' Wide Sections (CCF / Month).....	36.30	
01 54 23 00-0015 CCF Heavy Duty Masonry Scaffolding With Bracing Accessories - Area Based On 2' Wide Sections (CCF / Month).....	66.54	
01 54 23 00-0016 LF Aluminum Joists (LF / Month) .....	5.90	
01 54 23 00-0017 LF Aluminum Stringers (LF / Month) .....	8.46	
01 54 23 00-0018 EA Screw Jack With U-Plate For Stringers (EA / Month).....	10.66	
01 54 23 00-0019 CSF Netting for Exterior Building Scaffolding, Installation, Rental and Removal .....	18.72	
<i>For Each Additional Month Of Usage, Add</i>	18.72	
<b>01 54 23 00-0020 Heavy Duty Masonry Scaffolding Erection And Dismantling - Labor Only</b> <small>(01 54 23 00-0001)</small>		
<small>Note: Includes both initial erection and final dismantling Excludes lifting equipment. The unit of measure is the volume of scaffolding erected. See CSI section 01 54 23 00-0013 for scaffolding rental.</small>		
01 54 23 00-0021 CCF Up To 20' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	72.66	
01 54 23 00-0022 CCF >20' To 40' Height Heavy Duty Masonry Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	90.82	
01 54 23 00-0023 CCF >40' To 60' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	108.98	
01 54 23 00-0024 CCF >60' To 80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	118.06	
01 54 23 00-0025 CCF >80' Height Heavy Duty Scaffolding Initial Erection And Final Dismantling, Per CCF Of Scaffolding And Accessories.....	131.69	
<b>01 54 23 00-0026 Rolling Scaffolding</b> <small>(01 54 23)</small>		
<small>Note: Includes moving and relocating scaffolding on site. Excludes initial erection and final dismantling of scaffold.</small>		
01 54 23 00-0027 DAY Rolling Scaffolding >14' To 20' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section) .....	10.65	
01 54 23 00-0028 WK Rolling Scaffolding >14' To 20' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section) .....	42.66	
01 54 23 00-0029 MO Rolling Scaffolding >14' To 20' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section) .....	170.62	
01 54 23 00-0030 DAY Rolling Scaffolding >20' To 40' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section) .....	17.82	
01 54 23 00-0031 WK Rolling Scaffolding >20' To 40' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section) .....	71.38	
01 54 23 00-0032 MO Rolling Scaffolding >20' To 40' Complete With Wheels, Railings, Etc., (5' Wide X 7' Long Section) .....	285.54	
01 54 23 00-0033 EA Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold, >14' To 20' .....	86.73	
01 54 23 00-0034 EA Rolling Scaffolding Initial Erection And Final Dismantling For Each Scaffold, >20' To 40' .....	108.41	
<b>01 54 23 00-0035 Shoring Posts</b> <small>(01 54 23)</small>		
<small>Note: Includes moving to perform task. No additional cost for relocating will be allowed.</small>		
01 54 23 00-0036 DAY 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post .....	4.26	
01 54 23 00-0037 WK 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post .....	12.78	
01 54 23 00-0038 MO 6'-6" To 11' Extension, 5,000 LB Capacity, Steel Shoring Post .....	21.31	
<b>01 54 23 00-0039 Temporary Lumber For Platforms, Scaffolding And Bracing</b> <small>(01 54 23)</small>		
01 54 23 00-0040 SF 5/16" CD Grade Plywood - Temporary Lumber .....	1.55	0.62
01 54 23 00-0041 SF 1/2" CD Grade Plywood - Temporary Lumber .....	1.88	0.62
01 54 23 00-0042 SF 5/8" CD Grade Plywood - Temporary Lumber .....	2.12	0.62
01 54 23 00-0043 SF 3/4" CD Grade Plywood - Temporary Lumber .....	2.39	0.62
01 54 23 00-0044 SF 1" CD Grade Plywood - Temporary Lumber .....	3.50	0.92
01 54 23 00-0045 LF 2" x 4" Temporary Lumber .....	1.06	1.28
01 54 23 00-0046 LF 2" x 6" Temporary Lumber .....	1.58	1.28
01 54 23 00-0047 LF 2" x 8" Temporary Lumber .....	2.11	1.28
01 54 23 00-0048 LF 2" x 10" Temporary Lumber .....	2.64	1.28
01 54 23 00-0049 LF 2" x 12" Temporary Lumber .....	3.16	1.28

<b>01</b>	<b>General Requirements</b>
<b>01 50</b>	<b>Temporary Facilities And Controls</b>
<b>01 54</b>	<b>Construction Aids</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 54 23 00-0050	LF		3" x 8" Temporary Lumber .....	3.16	1.28
01 54 23 00-0051	LF		3" x 10" Temporary Lumber .....	3.96	1.28
01 54 23 00-0052	LF		3" x 12" Temporary Lumber .....	4.75	1.28
01 54 23 00-0053	LF		4" x 4" Temporary Lumber .....	2.26	0.64
01 54 23 00-0054	LF		4" x 6" Temporary Lumber .....	3.19	0.80
01 54 23 00-0055	LF		6" x 6" Temporary Lumber .....	4.11	0.96
01 54 23 00-0056	LF		6" x 8" Temporary Lumber .....	5.32	1.19
01 54 23 00-0057	LF		12" x 12" Temporary Lumber .....	12.62	1.91
<b>01 54 23 00-0058</b>			<b>Temporary Precast Concrete Blocks</b> (01 54 23) Note: Includes removal after use.		
01 54 23 00-0059	EA		2' x 2' x 2' Temporary Precast Concrete Block .....	81.83	
01 54 23 00-0060	EA		2' x 2' x 4' Temporary Precast Concrete Block .....	102.30	
01 54 23 00-0061	EA		2' x 2' x 8' Temporary Precast Concrete Block .....	122.75	
<b>01 54 26</b>			<b>Temporary Swing Staging</b> (01 54) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, all necessary safety equipment for personnel and anchoring to existing roof anchors. Excludes installing roof anchors.		
<b>01 54 26 00-0001</b>			<b>Swing Stage</b> (01 54 26) Note: Up to one month rental. Includes connection to existing electrical outlet on roof, and all necessary safety equipment for personnel. Excludes installing roof anchors.		
01 54 26 00-0002	MO		7' Swing Stage, Electric Operated .....	1,595.38	
01 54 26 00-0003	MO		24' Swing Stage, Manually Operated .....	575.06	
01 54 26 00-0004	EA		Swing Stage Erection And Dismantling .....	404.96	
			Note: Includes both erection and dismantling of swing stage.		
01 54 26 00-0005	EA		Move Swing Stage To Different Roof At Same Site .....	189.44	
01 54 26 00-0006	EA		Move Swing Stage To Different Location At Same Roof .....	87.44	
<b>01 54 29</b>			<b>Temporary Sidewalk Protection</b> (01 54)		
<b>01 54 29 00-0001</b>			<b>Sidewalk Bridge</b> (01 54 29)		
<b>01 54 29 00-0002</b>			<b>Installation of Sidewalk Bridge</b> (01 54 29 00-0001)		
01 54 29 00-0003	LF		Installation of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	77.20	
			Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.		
			For 3 Post System, Add	6.00	
			For Each Additional Foot Over 8' Wide, Add	3.00	
			For Each Additional Foot Over 8' High, Add	2.00	
01 54 29 00-0004	LF		Installation of Netting for Sidewalk Bridge .....	3.71	
<b>01 54 29 00-0005</b>			<b>Monthly Rental of Sidewalk Bridge</b> (01 54 29 00-0001)		
01 54 29 00-0006	LF		Monthly Rental Of Up To 8' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	8.00	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	1.20	
01 54 29 00-0007	LF		Monthly Rental Of Up To 8' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	9.01	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	1.35	
01 54 29 00-0008	LF		Monthly Rental Of Up To 8' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	10.01	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	1.50	
01 54 29 00-0009	LF		Monthly Rental Of 8' - 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	10.01	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	1.50	
01 54 29 00-0010	LF		Monthly Rental Of 8' - 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	11.00	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	1.65	
01 54 29 00-0011	LF		Monthly Rental Of 8' - 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	13.02	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	1.95	
01 54 29 00-0012	LF		Monthly Rental Of Over 12' Wide And 8' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	12.02	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	1.80	
01 54 29 00-0013	LF		Monthly Rental Of Over 12' Wide, 8' - 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	14.02	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	2.10	
01 54 29 00-0014	LF		Monthly Rental Of Over 12' Wide, Over 12' High, 2 Post System, Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly .....	15.00	
			Note: Includes spanning openings, planking and parapet, lighting and maintenance.		
			For 3 Post System, Add	2.25	
01 54 29 00-0015	LF		Monthly Rental of Netting for Sidewalk Bridge .....	1.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 54 29 00-0016</b> <b>Removal of Sidewalk Bridge</b> <small>(01 54 29 00-0001)</small>		
01 54 29 00-0017    LF    Removal of Heavy Duty Steel Post And Beam Sidewalk Bridge Assembly.....	30.25	
<i>Note: Includes spanning openings, planking and parapet, lighting, up to 8' wide, up to 8' high, 2 post system.</i>		
<i>For 3 Post System, Add</i>		
	2.50	
<i>For Each Additional Foot Over 8' Wide, Add</i>		
	1.25	
<i>For Each Additional Foot Over 8' High, Add</i>		
	0.75	
01 54 29 00-0018    LF    Removal of Netting for Sidewalk Bridge .....	1.85	
 <b>01 55    Vehicular Access And Parking</b> <small>(01 55)</small>		
<b>01 55 23    Temporary Roads</b> <small>(01 55)</small>		
<b>01 55 23 00-0001</b> <b>Temporary Stabilized Construction Entrance</b> <small>(01 55 23)</small>		
<i>Note: As per Caltrans detail.</i>		
01 55 23 00-0002    SF    3" To 4" Rock Temporary Stabilized Construction Entrance Assembly .....	3.53	
<i>Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.</i>		
01 55 23 00-0003    SF    >4" To 6" Rock Temporary Stabilized Construction Entrance Assembly .....	4.23	
<i>Note: Includes up to 12" excavation of pit, hauling and disposal of soil, filter fabric at base and sides, filled with rock, and compaction.</i>		
 <b>01 55 23 00-0004</b> <b>Rumble Trench Plate</b> <small>(01 55 23)</small>		
01 55 23 00-0005    MO    8' x 10' Steel Rumble Trench Plate Rental.....	213.08	
01 55 23 00-0006    EA    Place And Remove Rumble Plate.....	75.46	
<i>Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.</i>		
01 55 23 00-0007    EA    Relocate And Adjust Location Of Rumble Plate.....	18.87	
<i>Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.</i>		
 <b>01 55 23 00-0008</b> <b>Temporary Road Ramps (Godwin)</b> <small>(01 55 23)</small>		
<i>Note: Excludes asphalt and gravel.</i>		
01 55 23 00-0009    EA    4" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	2,950.79	164.22
01 55 23 00-0010    EA    6" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	4,027.13	246.34
01 55 23 00-0011    EA    8" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	5,559.53	328.45
01 55 23 00-0012    EA    12" Pipeline, 12' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	11,424.52	410.56
01 55 23 00-0013    EA    24" Pipeline, 15' Passable Vehicle Width, Temporary Road Ramp (Godwin).....	16,719.41	492.67
 <b>01 55 26    Traffic Control</b> <small>(01 55)</small>		
<b>01 55 26 00-0001</b> <b>Removable Prefomed Traffic Black Line Mask</b> <small>(01 55 26)</small>		
<i>Note: Includes installation and removal after use.</i>		
01 55 26 00-0002    LF    6" Removable Traffic Black Line Mask .....	4.27	
01 55 26 00-0003    LF    8" Removable Traffic Black Line Mask .....	5.23	
 <b>01 55 26 00-0004</b> <b>Temporary Prefomed Traffic Line Tape</b> <small>(01 55 26)</small>		
<i>Note: Includes installation and removal after use.</i>		
01 55 26 00-0005    LF    4" Reflective Removable Traffic Line Tape.....	3.25	
01 55 26 00-0006    LF    6" Reflective Removable Traffic Line Tape.....	4.31	
01 55 26 00-0007    LF    8" Reflective Removable Traffic Line Tape.....	5.32	
 <b>01 55 26 00-0008</b> <b>Temporary Painted Traffic Lines</b> <small>(01 55 26)</small>		
<i>Note: Includes installation and removal after use.</i>		
01 55 26 00-0009    LF    4" Temporary Painted Traffic Lines.....	3.00	
<i>For Not Removed, Deduct</i>		
	-2.44	
01 55 26 00-0010    LF    6" Temporary Painted Traffic Lines.....	3.99	
<i>For Not Removed, Deduct</i>		
	-3.30	
01 55 26 00-0011    LF    8" Temporary Painted Traffic Lines.....	5.01	
<i>For Not Removed, Deduct</i>		
	-4.17	
01 55 26 00-0012    EA    2" High x 2" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.30	
01 55 26 00-0013    EA    2" High x 4" Wide Temporary Overlay Pavement Markers, "L" With Factory-Applied Adhesive Pad.....	2.32	
 <b>01 55 26 00-0014</b> <b>Pedestrian Traffic Control</b> <small>(01 55 26)</small>		
01 55 26 00-0015    CLF    1", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange .....	10.97	
01 55 26 00-0016    CLF    2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Orange .....	14.97	
01 55 26 00-0017    CLF    3/4", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	7.68	
01 55 26 00-0018    CLF    2", 4 Mil Polyethylene Printed Barricade Tape, Fluorescent Yellow.....	9.71	
01 55 26 00-0019    CLF    3", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent .....	10.99	
01 55 26 00-0020    CLF    6", 4 Mil Polyethylene Printed Barricade Tape, Non Fluorescent .....	16.14	
01 55 26 00-0021    CLF    1" Exterior Vinyl Tape (Warning Tape) .....	13.79	
01 55 26 00-0022    CLF    2" Exterior Vinyl Tape (Warning Tape) .....	20.32	
01 55 26 00-0023    CLF    3" Exterior Vinyl Tape (Warning Tape) .....	26.74	
01 55 26 00-0024    CLF    4" Exterior Vinyl Tape (Warning Tape) .....	31.36	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 50</b>	<b>Temporary Facilities And Controls</b>
	<b>01 55</b>	<b>Vehicular Access And Parking</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 55 26 00-0025</b>	<b>Linear Delineation System, Temporary Or Permanent (01 55 26)</b>	
Note: High visibility reflective sheeting strips. Scotchlite as manufactured by 3M.		
01 55 26 00-0026 LF 4" Linear Delineation System.....	6.47	
01 55 26 00-0027 LF 6" Linear Delineation System.....	8.60	
<b>01 55 26 00-0028</b>	<b>Traffic Protection (01 55 26)</b>	
<b>01 55 26 00-0029</b>	<b>Portable Traffic Control Device Usage (01 55 26 00-0028)</b>	
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		
01 55 26 00-0030 DAY 28" Cone With Reflective Collar.....	0.46	
01 55 26 00-0031 WK 28" Cone With Reflective Collar.....	1.37	
01 55 26 00-0032 MO 28" Cone With Reflective Collar.....	4.12	
01 55 26 00-0033 DAY Vertical Panel.....	1.38	
01 55 26 00-0034 WK Vertical Panel.....	4.15	
01 55 26 00-0035 MO Vertical Panel.....	12.44	
01 55 26 00-0036 DAY Channelizer Drum.....	1.50	
01 55 26 00-0037 WK Channelizer Drum.....	4.50	
01 55 26 00-0038 MO Channelizer Drum.....	13.50	
01 55 26 00-0039 DAY Stackable Channelizer Panel.....	0.71	
01 55 26 00-0040 WK Stackable Channelizer Panel.....	2.13	
01 55 26 00-0041 MO Stackable Channelizer Panel.....	6.39	
01 55 26 00-0042 DAY Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	0.98	
01 55 26 00-0043 WK Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	2.95	
01 55 26 00-0044 MO Type I Barricade, Up To 3' Wide With Reflective Rail Each Side.....	8.84	
01 55 26 00-0045 DAY Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	2.18	
01 55 26 00-0046 WK Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	6.53	
01 55 26 00-0047 MO Type II Barricade, Up To 3' Wide With Two Reflective Rails Each Side.....	19.60	
01 55 26 00-0048 DAY Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	2.48	
01 55 26 00-0049 WK Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	7.45	
01 55 26 00-0050 MO Type III Barricade, Up To 5' Wide With Three Reflective Rails.....	22.34	
01 55 26 00-0051 DAY Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	4.54	
01 55 26 00-0052 WK Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	13.62	
01 55 26 00-0053 MO Type III Barricade, >5' To 10' Wide With Three Reflective Rails.....	40.86	
01 55 26 00-0054 DAY Up To 10' Wide A Frame Barricade.....	2.49	
01 55 26 00-0055 WK Up To 10' Wide A Frame Barricade.....	7.47	
01 55 26 00-0056 MO Up To 10' Wide A Frame Barricade.....	22.41	
01 55 26 00-0057 DAY Type A Or C Flasher.....	0.51	
01 55 26 00-0058 WK Type A Or C Flasher.....	1.52	
01 55 26 00-0059 MO Type A Or C Flasher.....	4.57	
01 55 26 00-0060 DAY Type B Flasher (High Intensity).....	2.75	
01 55 26 00-0061 WK Type B Flasher (High Intensity).....	8.26	
01 55 26 00-0062 MO Type B Flasher (High Intensity).....	24.77	
<b>01 55 26 00-0063</b>	<b>Traffic Barriers Usage (01 55 26 00-0028)</b>	
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		
01 55 26 00-0064 DAY 6' Long Portable Parking Curbs.....	1.19	
01 55 26 00-0065 WK 6' Long Portable Parking Curbs.....	3.56	
01 55 26 00-0066 MO 6' Long Portable Parking Curbs.....	10.67	
01 55 26 00-0067 DAY 6' Long Portable Speed Bumps.....	3.51	
01 55 26 00-0068 WK 6' Long Portable Speed Bumps.....	10.53	
01 55 26 00-0069 MO 6' Long Portable Speed Bumps.....	31.58	
01 55 26 00-0070 DAY Up To 12.5' Concrete Traffic Barrier.....	8.43	
01 55 26 00-0071 WK Up To 12.5' Concrete Traffic Barrier.....	25.29	
01 55 26 00-0072 MO Up To 12.5' Concrete Traffic Barrier.....	75.86	
01 55 26 00-0073 DAY >12.5' To 20' Concrete Traffic Barrier.....	16.86	
01 55 26 00-0074 WK >12.5' To 20' Concrete Traffic Barrier.....	50.58	
01 55 26 00-0075 MO >12.5' To 20' Concrete Traffic Barrier.....	151.73	
01 55 26 00-0076 DAY 6' x 32" Tall Plastic Water Barrier.....	10.07	
01 55 26 00-0077 WK 6' x 32" Tall Plastic Water Barrier.....	30.20	
01 55 26 00-0078 MO 6' x 32" Tall Plastic Water Barrier.....	90.60	
01 55 26 00-0079 DAY 6' x 46" Tall Plastic Water Barrier.....	14.37	
01 55 26 00-0080 WK 6' x 46" Tall Plastic Water Barrier.....	43.12	
01 55 26 00-0081 MO 6' x 46" Tall Plastic Water Barrier.....	129.36	
01 55 26 00-0082 DAY Sand Filled Crash Attenuator Barrels.....	5.63	
01 55 26 00-0083 WK Sand Filled Crash Attenuator Barrels.....	16.88	
01 55 26 00-0084 MO Sand Filled Crash Attenuator Barrels.....	50.63	
<b>01 55 26 00-0085</b>	<b>Portable Signs And Message Displays Usage (01 55 26 00-0028)</b>	
Note: Excludes placing and removing devices. See CSI section 01 55 26 00-0104 for delivery, placing and removal.		
01 55 26 00-0086 DAY Mesh Or Vinyl Roll-up Sign With Stand.....	4.42	
01 55 26 00-0087 WK Mesh Or Vinyl Roll-up Sign With Stand.....	13.25	
01 55 26 00-0088 MO Mesh Or Vinyl Roll-up Sign With Stand.....	39.75	
01 55 26 00-0089 DAY Aluminum Sign And Post.....	2.44	
01 55 26 00-0090 WK Aluminum Sign And Post.....	7.31	
01 55 26 00-0091 MO Aluminum Sign And Post.....	21.92	



<b>General Requirements</b>	<b>01</b>	
<b>Temporary Facilities And Controls</b>	<b>01 50</b>	<b>10</b>
<b>Vehicle Access And Parking</b>	<b>01 55</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 55 26 00-0092 DAY Aluminum Sign And A Frame Stand .....	3.34	
01 55 26 00-0093 WK Aluminum Sign And A Frame Stand .....	10.02	
01 55 26 00-0094 MO Aluminum Sign And A Frame Stand .....	30.06	
01 55 26 00-0095 DAY Trailer Mounted Flashing Arrow Board .....	41.01	
01 55 26 00-0096 WK Trailer Mounted Flashing Arrow Board .....	123.03	
01 55 26 00-0097 MO Trailer Mounted Flashing Arrow Board .....	369.09	
01 55 26 00-0098 DAY Trailer Mounted Portable Variable Message Sign (PVMS) .....	122.68	
01 55 26 00-0099 WK Trailer Mounted Portable Variable Message Sign (PVMS) .....	368.04	
01 55 26 00-0100 MO Trailer Mounted Portable Variable Message Sign (PVMS) .....	1,104.12	
01 55 26 00-0101 DAY Two Head, Trailer Mounted Traffic Signal System (Set Of Two) .....	752.08	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0102 WK Two Head, Trailer Mounted Traffic Signal System (Set Of Two) .....	2,256.24	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
01 55 26 00-0103 MO Two Head, Trailer Mounted Traffic Signal System (Set Of Two) .....	6,768.72	
Note: Consists of a set of two communicating trailers. Each with two LED traffic light head, solar panels and a battery bank, mounted on a heavy-duty towable trailer.		
<b>01 55 26 00-0104 Place And Remove Traffic Protection Using Truck</b> <small>(01 55 26 00-0028)</small>		
Note: Includes delivery and return up to 15 miles. See CSI section 01 74 19 00-0037 for delivery >15 miles.		
01 55 26 00-0105 EA Place And Remove Up To 250 Cones Using Truck .....	3.70	
01 55 26 00-0106 EA Place And Remove >250 Cones Using Truck .....	2.96	
01 55 26 00-0107 EA Place And Remove Up To 250 Panels/Channelizers Using Truck .....	4.93	
01 55 26 00-0108 EA Place And Remove >250 Panels/Channelizers Using Truck .....	3.95	
01 55 26 00-0109 EA Place And Remove Up To 250 Barricades Using Truck .....	7.40	
01 55 26 00-0110 EA Place And Remove >250 Barricades Using Truck .....	5.92	
01 55 26 00-0111 EA Place And Remove Curbs/Speed Bumps Using Truck .....	7.40	
01 55 26 00-0112 EA Place And Remove Portable Sign And Stand Using Truck .....	4.44	
01 55 26 00-0113 EA Place And Remove Aluminum Sign And Post Using Truck .....	18.51	
01 55 26 00-0114 EA Place And Remove Trailer Mounted Boards And Signals Using Truck .....	55.53	
01 55 26 00-0115 EA Place And Remove Up To 12.5' Concrete Traffic Barrier .....	75.46	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	188.65	
For 2 Barriers, Add	67.91	
For 3 Barriers, Add	22.64	
01 55 26 00-0116 EA Place And Remove >12.5' Concrete Traffic Barrier .....	113.18	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	282.95	
For 2 Barriers, Add	101.86	
For 3 Barriers, Add	33.95	
01 55 26 00-0117 EA Place And Remove Plastic Water Barrier .....	39.32	
Note: Includes water. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	94.30	
For 2 Barriers, Add	33.95	
For 3 Barriers, Add	11.32	
01 55 26 00-0118 EA Place And Remove Crash Attenuator Barrels .....	56.59	
Note: If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rentals tasks, 01 71 13 00-0000 for mobilization tasks.		
For 1 Barrier, Add	141.48	
For 2 Barriers, Add	50.93	
For 3 Barriers, Add	16.98	
<b>01 55 26 00-0119 Place And Remove Traffic Protection From Roadside (Daily)</b> <small>(01 55 26 00-0028)</small>		
01 55 26 00-0120 EA Place And Remove Up To 250 Cones By Hand From Roadside .....	1.85	
01 55 26 00-0121 EA Place And Remove >250 Cones By Hand From Roadside .....	1.48	
01 55 26 00-0122 EA Place And Remove Up To 250 Panels/Channelizers By Hand From Roadside .....	2.47	
01 55 26 00-0123 EA Place And Remove >250 Panels/Channelizers By Hand From Roadside .....	1.96	
01 55 26 00-0124 EA Place And Remove Up To 250 Barricades By Hand From Roadside .....	3.70	
01 55 26 00-0125 EA Place And Remove >250 Barricades By Hand From Roadside .....	2.96	
01 55 26 00-0126 EA Place And Remove Portable Sign And Stand From Roadside .....	2.22	
01 55 26 00-0127 EA Place And Remove Trailer Mounted Boards And Signals From Roadside .....	27.76	
01 55 26 00-0128 EA Roadside Relocation Of Concrete Traffic Barrier .....	37.72	
Note: Excludes flatbed truck. If lifting equipment is not available on site, See CSI section 01 22 23 00-0000 for rental tasks, 01 71 13 00-0000 for mobilization.		
<b>01 55 26 00-0129 Temporary Rumble Strips</b> <small>(01 55 26)</small>		
Note: Includes removal after use.		
01 55 26 00-0130 LF 1/4" High, 4" Wide, Polymer Tape Temporary Rumble Strip .....	7.64	
01 55 26 00-0131 LF 1/2" High, 3-1/2" Wide, Polycarbonate Temporary Rumble Strip .....	5.62	
<b>01 56 Temporary Barriers And Enclosures</b> <small>(01 50)</small>		
Note: Includes removal after use.		
<b>01 56 16 Temporary Dust Barriers</b> <small>(01 56)</small>		

<b>01</b>	<b>General Requirements</b>
<b>01 50</b>	<b>Temporary Facilities And Controls</b>
<b>01 56</b>	<b>Temporary Barriers And Enclosures</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

01 56 16 00-0001	<b>Temporary Sheeting For Protection</b> (01 56 16)	
	Note: Includes removal after use.	
01 56 16 00-0002	SF 6 Mil, Plastic Sheeting, Applied To Floors.....	0.27
01 56 16 00-0003	SF 6 Mil, Plastic Sheeting, Applied To Walls.....	0.36
01 56 16 00-0004	SF 6 Mil, Plastic Sheeting, Applied To Ceilings.....	0.48
01 56 16 00-0005	SF 6 Mil, Plastic Sheeting, Applied To Scaffolding.....	0.47
01 56 16 00-0006	SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Floors.....	0.32
01 56 16 00-0007	SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Walls.....	0.41
01 56 16 00-0008	SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Ceilings.....	0.53
01 56 16 00-0009	SF 6 Mil, Fire Retardant, Plastic Sheeting, Applied To Scaffolding.....	0.50
01 56 16 00-0010	SF 10 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.61
01 56 16 00-0011	SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Floors.....	0.33
01 56 16 00-0012	SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Walls.....	0.42
01 56 16 00-0013	SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Ceilings.....	0.54
01 56 16 00-0014	SF 6 Mil, Fire Retardant, Anti Static, Plastic Sheeting, Applied To Scaffolding.....	0.51
01 56 16 00-0015	SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Floors.....	0.33
01 56 16 00-0016	SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Walls.....	0.42
01 56 16 00-0017	SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.54
01 56 16 00-0018	SF 6 Mil, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.51
01 56 16 00-0019	SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Floors.....	0.37
01 56 16 00-0020	SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Walls.....	0.46
01 56 16 00-0021	SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Ceilings.....	0.58
01 56 16 00-0022	SF 6 Mil, Fire Retardant, Reinforced, Plastic Sheeting, Applied To Scaffolding.....	0.55
01 56 16 00-0023	SF Burlap, Applied To Floors.....	0.57
01 56 16 00-0024	EA 7' Zipper Door For Plastic Sheeting.....	18.53
01 56 16 00-0025	LF Zip Wall Kit And ICRA Dust Control Awareness Barrier (Per LF Of Wall).....	6.23
	Note: Includes up to 12' long spring loaded poles, side clamps, foam rails and 6 mil poly barrier. Excludes zip doors.	
01 56 16 00-0026	EA Up To 1 SF Individual Critical Barriers.....	10.25
	Note: For Outlets And Receptacles	
01 56 16 00-0027	EA >1 To 4 SF Individual Critical Barriers.....	15.48
	Note: For diffusers, ceiling speakers, return grilles, etc.	
01 56 16 00-0028	EA >4 To 8 SF Individual Critical Barriers.....	20.78
	Note: For diffusers, return grilles, access doors, light fixtures, etc.	
01 56 16 00-0029	EA >8 To 32 SF Individual Critical Barriers.....	32.02
	Note: For doors, windows, etc.	
01 56 16 00-0030	<b>Temporary Stud Wall</b> (01 56 16)	
01 56 16 00-0031	<b>Temporary Stud Wall With Drywall</b> (01 56 16 00-0030)	
	Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, drywall taped and finished and removal after use. Excludes paint.	
01 56 16 00-0032	<b>Temporary Stud Wall With Drywall</b> (01 56 16 00-0031)	
01 56 16 00-0033	SF 3/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.37
	For Metal Studs 24" On Center, Add/Deduct.....	0.11
01 56 16 00-0034	SF 1/2" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.37
	For Metal Studs 24" On Center, Add/Deduct.....	0.11
01 56 16 00-0035	SF 5/8" Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.44
	For Metal Studs 24" On Center, Add/Deduct.....	0.11
01 56 16 00-0036	SF 3/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.40
	For Metal Studs 24" On Center, Add/Deduct.....	0.19
01 56 16 00-0037	SF 1/2" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.40
	For Metal Studs 24" On Center, Add/Deduct.....	0.19
01 56 16 00-0038	SF 5/8" Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.54
	For Metal Studs 24" On Center, Add/Deduct.....	0.19
01 56 16 00-0039	<b>Temporary Stud Wall With Fire Rated Drywall</b> (01 56 16 00-0031)	
01 56 16 00-0040	SF 1/2" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.45
	For Metal Studs 24" On Center, Add/Deduct.....	0.11
01 56 16 00-0041	SF 5/8" Type C Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.47
	For Metal Studs 24" On Center, Add/Deduct.....	0.11
01 56 16 00-0042	SF 5/8" Type X Fire Rated Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.43
	For Metal Studs 24" On Center, Add/Deduct.....	0.11
01 56 16 00-0043	SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.97
	For Metal Studs 24" On Center, Add/Deduct.....	0.11
01 56 16 00-0044	SF 1/2" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.56
	For Metal Studs 24" On Center, Add/Deduct.....	0.19
01 56 16 00-0045	SF 5/8" Type C Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.61
	For Metal Studs 24" On Center, Add/Deduct.....	0.19
01 56 16 00-0046	SF 5/8" Type X Fire Rated Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.53
	For Metal Studs 24" On Center, Add/Deduct.....	0.19
01 56 16 00-0047	SF 3/4" Fire Rated (Sheetrock® Ultracode®) Gypsum Board On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.61
	For Metal Studs 24" On Center, Add/Deduct.....	0.19
01 56 16 00-0048	<b>Temporary Stud Wall With Oriented Strand Board (OSB)</b> (01 56 16 00-0030)	
	Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, oriented strand board (OSB) wall sheathing, and removal after use. Excludes paint.	





<b>General Requirements</b>	<b>01</b>	
Temporary Facilities And Controls	01 50	10
Temporary Barriers And Enclosures	01 56	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 16 00-0049	SF		7/16" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.37	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.11	
01 56 16 00-0050	SF		1/2" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.42	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.11	
01 56 16 00-0051	SF		5/8" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.54	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.11	
01 56 16 00-0052	SF		3/4" Oriented Strand Board (OSB) Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.61	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.11	
01 56 16 00-0053	SF		7/16" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.41	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.19	
01 56 16 00-0054	SF		1/2" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.50	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.19	
01 56 16 00-0055	SF		5/8" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.74	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.19	
01 56 16 00-0056	SF		3/4" Oriented Strand Board (OSB) Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	7.88	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.19	
<b>01 56 16 00-0057</b>			<b>Temporary Stud Wall With BC Plywood</b> <small>(01 56 16 00-0030)</small>		
			Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, interior/exterior BC plywood wall sheathing, and removal after use. Excludes paint.		
01 56 16 00-0058	SF		3/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.67	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.11	
01 56 16 00-0059	SF		1/2" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.83	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.11	
01 56 16 00-0060	SF		5/8" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	5.98	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.11	
01 56 16 00-0061	SF		3/4" BC Plywood Wall Sheathing On One Side, Temporary Wood Stud Wall, 16" On Center.....	6.11	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.11	
01 56 16 00-0062	SF		3/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.00	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.19	
01 56 16 00-0063	SF		1/2" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.32	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.19	
01 56 16 00-0064	SF		5/8" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.62	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.19	
01 56 16 00-0065	SF		3/4" BC Plywood Wall Sheathing On Both Sides, Temporary Wood Stud Wall, 16" On Center.....	8.89	
			<i>For Metal Studs 24" On Center, Add/Deduct</i>	0.19	
<b>01 56 16 00-0066</b>			<b>Temporary Stud Wall With Plastic Sheeting</b> <small>(01 56 16 00-0030)</small>		
			Note: Includes 2 x 4 wood studs installed 16" on center, single bottom and top plate, appropriate fastening devices, 6 Mil plastic sheeting, and removal after use.		
01 56 16 00-0067	SF		6 Mil, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.09	
01 56 16 00-0068	SF		6 Mil, Fire Retardant, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.14	
01 56 16 00-0069	SF		6 Mil, Fire Retardant, Anti-Static, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.15	
01 56 16 00-0070	SF		6 Mil, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.15	
01 56 16 00-0071	SF		6 Mil, Fire Retardant, Reinforced, Plastic Sheeting On One Side, Temporary Wood Stud Wall, 16" On Center.....	3.19	
<b>01 56 16 00-0072</b>			<b>Temporary Doors</b> <small>(01 56 16 00-0030)</small>		
			Note: For temporary stud walls. Includes removal after use.		
01 56 16 00-0073	EA		Temporary Metal Door And Frame.....	516.81	
			Note: Painted with panic hardware, lockset, threshold and smoke seals. Remove after use.		
<b>01 56 16 00-0074</b>			<b>Temporary Floor Protection</b> <small>(01 56 16)</small>		
01 56 16 00-0075	SF		Masonite For Temporary Floor Protection.....	1.55	
01 56 16 00-0076	SF		1/2" Plywood For Temporary Floor Protection.....	1.64	
01 56 16 00-0077	SF		3/4" Plywood For Temporary Floor Protection.....	2.00	
<b>01 56 16 00-0078</b>			<b>Sticky Mats</b> <small>(01 56 16)</small>		
01 56 16 00-0079	EA		18" x 36", 30 Layer Sticky Mat.....	21.05	
			<i>For 60 Layers Instead Of 30, Add</i>	13.19	
01 56 16 00-0080	EA		18" x 46", 30 Layer Sticky Mat.....	23.98	
			<i>For 60 Layers Instead Of 30, Add</i>	15.38	
01 56 16 00-0081	EA		24" x 36", 30 Layer Sticky Mat.....	23.98	
			<i>For 60 Layers Instead Of 30, Add</i>	15.38	
01 56 16 00-0082	EA		25" x 45", 30 Layer Sticky Mat.....	31.30	
			<i>For 60 Layers Instead Of 30, Add</i>	20.87	
01 56 16 00-0083	EA		36" x 36", 30 Layer Sticky Mat.....	34.23	
			<i>For 60 Layers Instead Of 30, Add</i>	23.07	
01 56 16 00-0084	EA		36" x 46", 30 Layer Sticky Mat.....	37.16	
			<i>For 60 Layers Instead Of 30, Add</i>	25.27	
01 56 16 00-0085	EA		36" x 60", 30 Layer Sticky Mat.....	73.79	
			<i>For 60 Layers Instead Of 30, Add</i>	52.74	
01 56 16 00-0086	EA		36" x 72", 30 Layer Sticky Mat.....	87.85	
<b>01 56 26</b>			<b>Temporary Fencing</b> <small>(01 56)</small>		
01 56 26 00-0001			<b>Temporary Fencing</b> <small>(01 56 26)</small>		
			Note: Includes set-up and removal. Excludes auguring/drilling for posts.		

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 50</b>	<b>Temporary Facilities And Controls</b>
	<b>01 56</b>	<b>Temporary Barriers And Enclosures</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>01 56 26 00-0002</b> Temporary Chain Link Fence <small>(01 56 26 00-0001)</small> Note: Includes set-up and removal. Excludes auguring/drilling for posts.		
<b>01 56 26 00-0003</b> Temporary Chain Link Fence, Up To 6 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0004 LF Temporary 4' High Chain Link Fence And Posts, Up To 6 Months.....	3.15	
For >100 To 250, Deduct	-0.16	
For >250 To 500, Deduct	-0.32	
For >500, Deduct	-0.47	
For Shade Cloth, Add	1.60	
01 56 26 00-0005 LF Temporary 6' High Chain Link Fence And Posts, Up To 6 Months.....	3.56	
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.36	
For >500, Deduct	-0.53	
For Shade Cloth, Add	2.55	
01 56 26 00-0006 LF Temporary 8' High Chain Link Fence And Posts, Up To 6 Months.....	6.01	
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.60	
For >500, Deduct	-0.90	
For Shade Cloth, Add	3.60	
01 56 26 00-0007 LF Temporary 10' High Chain Link Fence And Posts, Up To 6 Months.....	17.88	
For >100 To 250, Deduct	-0.89	
For >250 To 500, Deduct	-1.79	
For >500, Deduct	-2.68	
For Shade Cloth, Add	4.75	
<b>01 56 26 00-0008</b> Temporary Chain Link Fence, >6 To 12 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0009 LF Temporary 4' High Chain Link Fence And Posts, >6 To 12 Months.....	3.48	
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.35	
For >500, Deduct	-0.52	
For Shade Cloth, Add	1.60	
01 56 26 00-0010 LF Temporary 6' High Chain Link Fence And Posts, >6 To 12 Months.....	3.91	
For >100 To 250, Deduct	-0.20	
For >250 To 500, Deduct	-0.39	
For >500, Deduct	-0.59	
For Shade Cloth, Add	2.55	
01 56 26 00-0011 LF Temporary 8' High Chain Link Fence And Posts, >6 To 12 Months.....	6.61	
For >100 To 250, Deduct	-0.33	
For >250 To 500, Deduct	-0.66	
For >500, Deduct	-0.99	
For Shade Cloth, Add	3.60	
01 56 26 00-0012 LF Temporary 10' High Chain Link Fence And Posts, >6 To 12 Months.....	19.66	
For >100 To 250, Deduct	-0.98	
For >250 To 500, Deduct	-1.97	
For >500, Deduct	-2.95	
For Shade Cloth, Add	4.75	
<b>01 56 26 00-0013</b> Temporary Chain Link Fence, >12 To 18 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0014 LF Temporary 4' High Chain Link Fence And Posts, >12 To 18 Months.....	3.83	
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.38	
For >500, Deduct	-0.57	
For Shade Cloth, Add	1.60	
01 56 26 00-0015 LF Temporary 6' High Chain Link Fence And Posts, >12 To 18 Months.....	4.31	
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.43	
For >500, Deduct	-0.65	
For Shade Cloth, Add	2.55	
01 56 26 00-0016 LF Temporary 8' High Chain Link Fence And Posts, >12 To 18 Months.....	7.28	
For >100 To 250, Deduct	-0.36	
For >250 To 500, Deduct	-0.73	
For >500, Deduct	-1.09	
For Shade Cloth, Add	3.60	
01 56 26 00-0017 LF Temporary 10' High Chain Link Fence And Posts, >12 To 18 Months.....	21.63	
For >100 To 250, Deduct	-1.08	
For >250 To 500, Deduct	-2.16	
For >500, Deduct	-3.24	
For Shade Cloth, Add	4.75	
<b>01 56 26 00-0018</b> Temporary Chain Link Fence, >18 Months <small>(01 56 26 00-0002)</small>		
01 56 26 00-0019 LF Temporary 4' High Chain Link Fence And Posts, >18 Months.....	4.21	
For >100 To 250, Deduct	-0.21	
For >250 To 500, Deduct	-0.42	
For >500, Deduct	-0.63	
For Shade Cloth, Add	1.60	
01 56 26 00-0020 LF Temporary 6' High Chain Link Fence And Posts, >18 Months.....	4.72	
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.47	
For >500, Deduct	-0.71	
For Shade Cloth, Add	2.55	



<b>General Requirements</b>		<b>01</b>
Temporary Facilities And Controls		01 50
Temporary Barriers And Enclosures		01 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0021 LF Temporary 8' High Chain Link Fence And Posts, >18 Months.....	7.99	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.80	
For >500, Deduct	-1.20	
For Shade Cloth, Add	3.60	
01 56 26 00-0022 LF Temporary 10' High Chain Link Fence And Posts, >18 Months.....	23.78	
For >100 To 250, Deduct	-1.19	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-3.57	
For Shade Cloth, Add	4.75	
<b>01 56 26 00-0023 Temporary Chain Link Fence Gates (01 56 26 00-0001)</b>		
Note: Includes set-up and removal. Excludes auguring/drilling for posts.		
<b>01 56 26 00-0024 Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0023)</b>		
<b>01 56 26 00-0025 4' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>		
01 56 26 00-0026 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	200.98	
For Shade Cloth, Add	15.01	
01 56 26 00-0027 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	312.64	
For Shade Cloth, Add	37.52	
01 56 26 00-0028 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	357.30	
For Shade Cloth, Add	45.02	
01 56 26 00-0029 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	401.96	
For Shade Cloth, Add	56.28	
01 56 26 00-0030 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	491.28	
For Shade Cloth, Add	75.03	
01 56 26 00-0031 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	535.97	
For Shade Cloth, Add	90.04	
<b>01 56 26 00-0032 6' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>		
01 56 26 00-0033 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	210.12	
For Shade Cloth, Add	23.92	
01 56 26 00-0034 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	326.84	
For Shade Cloth, Add	59.79	
01 56 26 00-0035 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	373.53	
For Shade Cloth, Add	71.75	
01 56 26 00-0036 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	420.25	
For Shade Cloth, Add	89.69	
01 56 26 00-0037 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	513.62	
For Shade Cloth, Add	119.58	
01 56 26 00-0038 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	560.31	
For Shade Cloth, Add	143.50	
<b>01 56 26 00-0039 8' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>		
01 56 26 00-0040 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	231.13	
For Shade Cloth, Add	33.77	
01 56 26 00-0041 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	359.54	
For Shade Cloth, Add	84.41	
01 56 26 00-0042 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	410.90	
For Shade Cloth, Add	101.30	
01 56 26 00-0043 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	462.26	
For Shade Cloth, Add	126.62	
01 56 26 00-0044 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	564.99	
For Shade Cloth, Add	168.83	
01 56 26 00-0045 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	616.35	
For Shade Cloth, Add	202.59	
<b>01 56 26 00-0046 10' High, Temporary Chain Link Fence Gates, Up To 6 Months (01 56 26 00-0024)</b>		
01 56 26 00-0047 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	288.91	
For Shade Cloth, Add	44.55	
01 56 26 00-0048 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	449.42	
For Shade Cloth, Add	111.38	
01 56 26 00-0049 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	513.62	
For Shade Cloth, Add	133.65	
01 56 26 00-0050 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	577.83	
For Shade Cloth, Add	167.07	
01 56 26 00-0051 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	706.23	
For Shade Cloth, Add	222.76	
01 56 26 00-0052 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, Up To 6 Months.....	770.43	
For Shade Cloth, Add	267.31	
<b>01 56 26 00-0053 Temporary Chain Link Fence Gates, &gt;6 To 12 Months (01 56 26 00-0023)</b>		
<b>01 56 26 00-0054 4' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months (01 56 26 00-0053)</b>		
01 56 26 00-0055 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	211.03	
For Shade Cloth, Add	15.01	
01 56 26 00-0056 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months.....	328.27	
For Shade Cloth, Add	37.52	

**01 General Requirements****01 50 Temporary Facilities And Controls****01 56 Temporary Barriers And Enclosures**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0057	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	375.17	
			<i>For Shade Cloth, Add</i> .....	45.02	
01 56 26 00-0058	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	422.06	
			<i>For Shade Cloth, Add</i> .....	56.28	
01 56 26 00-0059	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	515.84	
			<i>For Shade Cloth, Add</i> .....	75.03	
01 56 26 00-0060	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	562.76	
			<i>For Shade Cloth, Add</i> .....	90.04	
<b>01 56 26 00-0061</b>			<b>6' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months</b> <small>(01 56 26 00-0053)</small>		
01 56 26 00-0062	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	220.63	
			<i>For Shade Cloth, Add</i> .....	23.92	
01 56 26 00-0063	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	343.19	
			<i>For Shade Cloth, Add</i> .....	59.79	
01 56 26 00-0064	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	392.21	
			<i>For Shade Cloth, Add</i> .....	71.75	
01 56 26 00-0065	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	441.26	
			<i>For Shade Cloth, Add</i> .....	89.69	
01 56 26 00-0066	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	539.30	
			<i>For Shade Cloth, Add</i> .....	119.58	
01 56 26 00-0067	EA		24' Wide, 6' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	588.33	
			<i>For Shade Cloth, Add</i> .....	143.50	
<b>01 56 26 00-0068</b>			<b>8' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months</b> <small>(01 56 26 00-0053)</small>		
01 56 26 00-0069	EA		4' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	242.69	
			<i>For Shade Cloth, Add</i> .....	33.77	
01 56 26 00-0070	EA		10' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	377.51	
			<i>For Shade Cloth, Add</i> .....	84.41	
01 56 26 00-0071	EA		12' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	431.44	
			<i>For Shade Cloth, Add</i> .....	101.30	
01 56 26 00-0072	EA		15' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	485.37	
			<i>For Shade Cloth, Add</i> .....	126.62	
01 56 26 00-0073	EA		20' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	593.23	
			<i>For Shade Cloth, Add</i> .....	168.83	
01 56 26 00-0074	EA		24' Wide, 8' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	647.16	
			<i>For Shade Cloth, Add</i> .....	202.59	
<b>01 56 26 00-0075</b>			<b>10' High, Temporary Chain Link Fence Gates, &gt;6 To 12 Months</b> <small>(01 56 26 00-0053)</small>		
01 56 26 00-0076	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	303.36	
			<i>For Shade Cloth, Add</i> .....	44.55	
01 56 26 00-0077	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	471.89	
			<i>For Shade Cloth, Add</i> .....	111.38	
01 56 26 00-0078	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	539.30	
			<i>For Shade Cloth, Add</i> .....	133.65	
01 56 26 00-0079	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	606.72	
			<i>For Shade Cloth, Add</i> .....	167.07	
01 56 26 00-0080	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	741.54	
			<i>For Shade Cloth, Add</i> .....	222.76	
01 56 26 00-0081	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >6 To 12 Months .....	808.96	
			<i>For Shade Cloth, Add</i> .....	267.31	
<b>01 56 26 00-0082</b>			<b>Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0023)</small>		
<b>01 56 26 00-0083</b>			<b>4' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0082)</small>		
01 56 26 00-0084	EA		4' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....	221.58	
			<i>For Shade Cloth, Add</i> .....	15.01	
01 56 26 00-0085	EA		10' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....	344.69	
			<i>For Shade Cloth, Add</i> .....	37.52	
01 56 26 00-0086	EA		12' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....	393.93	
			<i>For Shade Cloth, Add</i> .....	45.02	
01 56 26 00-0087	EA		15' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....	443.16	
			<i>For Shade Cloth, Add</i> .....	56.28	
01 56 26 00-0088	EA		20' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....	541.64	
			<i>For Shade Cloth, Add</i> .....	75.03	
01 56 26 00-0089	EA		24' Wide, 4' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....	590.90	
			<i>For Shade Cloth, Add</i> .....	90.04	
<b>01 56 26 00-0090</b>			<b>6' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0082)</small>		
01 56 26 00-0091	EA		4' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....	231.66	
			<i>For Shade Cloth, Add</i> .....	23.92	
01 56 26 00-0092	EA		10' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....	360.35	
			<i>For Shade Cloth, Add</i> .....	59.79	
01 56 26 00-0093	EA		12' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....	411.82	
			<i>For Shade Cloth, Add</i> .....	71.75	
01 56 26 00-0094	EA		15' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....	463.32	
			<i>For Shade Cloth, Add</i> .....	89.69	
01 56 26 00-0095	EA		20' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months .....	566.27	
			<i>For Shade Cloth, Add</i> .....	119.58	



<b>General Requirements</b>			<b>01</b>
Temporary Facilities And Controls			01 50
Temporary Barriers And Enclosures			01 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0096 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	617.74 143.50	
<b>01 56 26 00-0097 8' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0082)</small>		
01 56 26 00-0098 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	254.82 33.77	
01 56 26 00-0099 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	396.39 84.41	
01 56 26 00-0100 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	453.02 101.30	
01 56 26 00-0101 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	509.64 126.62	
01 56 26 00-0102 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	622.90 168.83	
01 56 26 00-0103 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	679.52 202.59	
<b>01 56 26 00-0104 10' High, Temporary Chain Link Fence Gates, &gt;12 To 18 Months</b> <small>(01 56 26 00-0082)</small>		
01 56 26 00-0105 EA 4' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	318.53 44.55	
01 56 26 00-0106 EA 10' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	495.49 111.38	
01 56 26 00-0107 EA 12' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	566.27 133.65	
01 56 26 00-0108 EA 15' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	637.05 167.07	
01 56 26 00-0109 EA 20' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	778.62 222.76	
01 56 26 00-0110 EA 24' Wide, 10' High, Temporary Chain Link Fence Gate, >12 To 18 Months <i>For Shade Cloth, Add</i>	849.40 267.31	
<b>01 56 26 00-0111 Temporary Chain Link Fence Gates, &gt;18 Months</b> <small>(01 56 26 00-0023)</small>		
<b>01 56 26 00-0112 4' High, Temporary Chain Link Fence Gates, &gt;18 Months</b> <small>(01 56 26 00-0111)</small>		
01 56 26 00-0113 EA 4' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	232.13 15.01	
01 56 26 00-0114 EA 10' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	361.10 37.52	
01 56 26 00-0115 EA 12' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	412.68 45.02	
01 56 26 00-0116 EA 15' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	464.27 56.28	
01 56 26 00-0117 EA 20' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	567.43 75.03	
01 56 26 00-0118 EA 24' Wide, 4' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	619.04 90.04	
<b>01 56 26 00-0119 6' High, Temporary Chain Link Fence Gates, &gt;18 Months</b> <small>(01 56 26 00-0111)</small>		
01 56 26 00-0120 EA 4' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	242.69 23.92	
01 56 26 00-0121 EA 10' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	377.50 59.79	
01 56 26 00-0122 EA 12' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	431.43 71.75	
01 56 26 00-0123 EA 15' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	485.38 89.69	
01 56 26 00-0124 EA 20' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	593.23 119.58	
01 56 26 00-0125 EA 24' Wide, 6' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	647.16 143.50	
<b>01 56 26 00-0126 8' High, Temporary Chain Link Fence Gates, &gt;18 Months</b> <small>(01 56 26 00-0111)</small>		
01 56 26 00-0127 EA 4' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	266.96 33.77	
01 56 26 00-0128 EA 10' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	415.26 84.41	
01 56 26 00-0129 EA 12' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	474.59 101.30	
01 56 26 00-0130 EA 15' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	533.91 126.62	
01 56 26 00-0131 EA 20' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	652.56 168.83	
01 56 26 00-0132 EA 24' Wide, 8' High, Temporary Chain Link Fence Gate, >18 Months <i>For Shade Cloth, Add</i>	711.88 202.59	
<b>01 56 26 00-0133 10' High, Temporary Chain Link Fence Gates, &gt;18 Months</b> <small>(01 56 26 00-0111)</small>		

<b>01</b>	<b>General Requirements</b>
<b>01 50</b>	<b>Temporary Facilities And Controls</b>
<b>01 56</b>	<b>Temporary Barriers And Enclosures</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0134	EA		4' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....333.69 <i>For Shade Cloth, Add</i> 44.55		
01 56 26 00-0135	EA		10' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....519.08 <i>For Shade Cloth, Add</i> 111.38		
01 56 26 00-0136	EA		12' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....593.23 <i>For Shade Cloth, Add</i> 133.65		
01 56 26 00-0137	EA		15' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....667.39 <i>For Shade Cloth, Add</i> 167.07		
01 56 26 00-0138	EA		20' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....815.70 <i>For Shade Cloth, Add</i> 222.76		
01 56 26 00-0139	EA		24' Wide, 10' High, Temporary Chain Link Fence Gate, >18 Months .....889.85 <i>For Shade Cloth, Add</i> 267.31		
<b>01 56 26 00-0140</b>			<b>Temporary Chain Link Fence Panels (Portable) (01 56 26 00-0001)</b> Note: Includes set-up and removal. Excludes sandbags.		
<b>01 56 26 00-0141</b>			<b>Temporary Chain Link Fence Panels (Portable), Up To 6 Months (01 56 26 00-0140)</b>		
01 56 26 00-0142	LF		Temporary 4' High Chain Link Fence Panels (Portable), Up To 6 Months.....3.78 <i>For &gt;100 To 250, Deduct</i> -0.19 <i>For &gt;250 To 500, Deduct</i> -0.38 <i>For &gt;500, Deduct</i> -0.57 <i>For Shade Cloth, Add</i> 1.60		
01 56 26 00-0143	LF		Temporary 6' High Chain Link Fence Panels (Portable), Up To 6 Months.....4.23 <i>For &gt;100 To 250, Deduct</i> -0.21 <i>For &gt;250 To 500, Deduct</i> -0.42 <i>For &gt;500, Deduct</i> -0.63 <i>For Shade Cloth, Add</i> 2.55		
01 56 26 00-0144	LF		Temporary 8' High Chain Link Fence Panels (Portable), Up To 6 Months.....6.82 <i>For &gt;100 To 250, Deduct</i> -0.34 <i>For &gt;250 To 500, Deduct</i> -0.68 <i>For &gt;500, Deduct</i> -1.02 <i>For Shade Cloth, Add</i> 3.60		
<b>01 56 26 00-0145</b>			<b>Temporary Chain Link Fence Panels (Portable), &gt;6 To 12 Months (01 56 26 00-0140)</b>		
01 56 26 00-0146	LF		Temporary 4' High Chain Link Fence Panels (Portable), >6 To 12 Months .....4.10 <i>For &gt;100 To 250, Deduct</i> -0.21 <i>For &gt;250 To 500, Deduct</i> -0.41 <i>For &gt;500, Deduct</i> -0.62 <i>For Shade Cloth, Add</i> 1.60		
01 56 26 00-0147	LF		Temporary 6' High Chain Link Fence Panels (Portable), >6 To 12 Months .....4.58 <i>For &gt;100 To 250, Deduct</i> -0.23 <i>For &gt;250 To 500, Deduct</i> -0.46 <i>For &gt;500, Deduct</i> -0.69 <i>For Shade Cloth, Add</i> 2.55		
01 56 26 00-0148	LF		Temporary 8' High Chain Link Fence Panels (Portable), >6 To 12 Months .....7.42 <i>For &gt;100 To 250, Deduct</i> -0.37 <i>For &gt;250 To 500, Deduct</i> -0.74 <i>For &gt;500, Deduct</i> -1.11 <i>For Shade Cloth, Add</i> 3.60		
<b>01 56 26 00-0149</b>			<b>Temporary Chain Link Fence Panels (Portable), &gt;12 To 18 Months (01 56 26 00-0140)</b>		
01 56 26 00-0150	LF		Temporary 4' High Chain Link Fence Panels (Portable), >12 To 18 Months .....4.42 <i>For &gt;100 To 250, Deduct</i> -0.22 <i>For &gt;250 To 500, Deduct</i> -0.44 <i>For &gt;500, Deduct</i> -0.66 <i>For Shade Cloth, Add</i> 1.60		
01 56 26 00-0151	LF		Temporary 6' High Chain Link Fence Panels (Portable), >12 To 18 Months .....4.99 <i>For &gt;100 To 250, Deduct</i> -0.25 <i>For &gt;250 To 500, Deduct</i> -0.50 <i>For &gt;500, Deduct</i> -0.75 <i>For Shade Cloth, Add</i> 2.55		
01 56 26 00-0152	LF		Temporary 8' High Chain Link Fence Panels (Portable), >12 To 18 Months .....8.09 <i>For &gt;100 To 250, Deduct</i> -0.40 <i>For &gt;250 To 500, Deduct</i> -0.81 <i>For &gt;500, Deduct</i> -1.21 <i>For Shade Cloth, Add</i> 3.60		
<b>01 56 26 00-0153</b>			<b>Temporary Chain Link Fence Panels (Portable), &gt;18 Months (01 56 26 00-0140)</b>		
01 56 26 00-0154	LF		Temporary 4' High Chain Link Fence Panels (Portable), >18 Months .....4.83 <i>For &gt;100 To 250, Deduct</i> -0.24 <i>For &gt;250 To 500, Deduct</i> -0.48 <i>For &gt;500, Deduct</i> -0.72 <i>For Shade Cloth, Add</i> 1.60		
01 56 26 00-0155	LF		Temporary 6' High Chain Link Fence Panels (Portable), >18 Months .....5.39 <i>For &gt;100 To 250, Deduct</i> -0.27 <i>For &gt;250 To 500, Deduct</i> -0.54 <i>For &gt;500, Deduct</i> -0.81 <i>For Shade Cloth, Add</i> 2.55		



<b>General Requirements</b>	<b>01</b>	
Temporary Facilities And Controls	01 50	10
Temporary Barriers And Enclosures	01 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 56 26 00-0156 LF Temporary 8' High Chain Link Fence Panels (Portable), >18 Months ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500, Deduct</i> <i>For Shade Cloth, Add</i>	8.79 -0.44 -0.88 -1.32 3.60	
<b>01 56 26 00-0157 Temporary Chain Link Fence Panels (Portable) Sandbags (01 56 26 00-0140)</b>		
01 56 26 00-0158 BAG Temporary Chain Link Fence Panels (Portable) Sandbag..... Note: Includes placement and removal.	5.35	
<b>01 56 26 00-0159 Relocate Chain Link Fence, Gates And Panels (01 56 26 00-0001)</b> Note: Excludes auguring/drilling for posts.		
<b>01 56 26 00-0160 Relocate Temporary Chain Link Fence On Site (01 56 26 00-0159)</b>		
01 56 26 00-0161 LF Relocate Temporary 4' High Chain Link Fence And Posts .....	2.96	
01 56 26 00-0162 LF Relocate Temporary 6' High Chain Link Fence And Posts .....	4.44	
01 56 26 00-0163 LF Relocate Temporary 8' High Chain Link Fence And Posts .....	6.42	
01 56 26 00-0164 LF Relocate Temporary 10' High Chain Link Fence And Posts .....	7.89	
<b>01 56 26 00-0165 Relocate Temporary Chain Link Fence Panels On Site (01 56 26 00-0159)</b>		
01 56 26 00-0166 LF Relocate Temporary 4' High Chain Link Fence Panel, Self Standing .....	0.69	
01 56 26 00-0167 LF Relocate Temporary 6' High Chain Link Fence Panel, Self Standing .....	0.83	
01 56 26 00-0168 LF Relocate Temporary 8' High Chain Link Fence Panel, Self Standing .....	0.93	
<b>01 56 26 00-0169 Relocate Temporary Chain Link Gates On Site (01 56 26 00-0159)</b>		
01 56 26 00-0170 EA Relocate Temporary 4' High Chain Link Vehicle Gate And Posts.....	90.20	
01 56 26 00-0171 EA Relocate Temporary 6' High Chain Link Vehicle Gate And Posts.....	104.08	
01 56 26 00-0172 EA Relocate Temporary 8' High Chain Link Vehicle Gate And Posts.....	128.37	
01 56 26 00-0173 EA Relocate Temporary 10' High Chain Link Vehicle Gate And Posts.....	138.78	
<b>01 56 26 00-0174 Temporary Safety Fence (01 56 26)</b> Note: Includes removal after use.		
01 56 26 00-0175 LF 48" High With Posts At 8' On Center, Plastic Mesh Temporary Safety Fence.....	2.46	
<b>01 56 29 Temporary Protective Walkways (01 56)</b>		
<b>01 56 29 00-0001 Temporary Walkways And Railings (01 56 29)</b>		
01 56 29 00-0002 SF Temporary Wood Walkway, 3/4" Plywood On 2 x 6 Stringers .....	5.10	
01 56 29 00-0003 LF Temporary Wooden Guardrail, 42" High, Posts, Handrail, And Intermediate Rail .....	28.43	
01 56 29 00-0004 RSR Temporary Wood Stairs, Tread And Riser On 2" x 12" Stringers.....	18.45	
<b>01 56 29 00-0005 Safety Nets (01 56 29)</b>		
01 56 29 00-0006 SF Small Mesh Debris Netting .....	1.40	
Note: Includes 3" molded plastic base plates, plastic cable ties, and 1/4", 7x9 aircraft cable tied off to structure, not including anchors.		
<b>01 56 33 Temporary Security Barriers (01 56)</b>		
<b>01 56 33 00-0001 Board-up Opening With Plywood (01 56 33)</b> Note: For use where directed by owner for boarding up door and window openings.		
01 56 33 00-0002 OPN Removal Of Protective Barrier To Allow Work In Building, Reseal At End Of Day, Per Opening Per Day.....	10.41	
01 56 33 00-0003 SF Board-up Opening With 5/8" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners.....	6.67	
01 56 33 00-0004 SF Board-up Opening With 3/4" Thick Plywood, 2" x 4" Wood Stud Framing And Fasteners.....	7.73	
<b>01 56 33 00-0005 Street Barricade (01 56 33)</b>		
01 56 33 00-0006 LF Temporary Street Barricade, Using 12" x 12" Beam Base With 2" x 4" Top Warning Rail And Sides .....	8.73	
<b>01 56 33 00-0007 Temporary Pedestrian Barricade (01 56 33)</b> Note: Portable, interlocking galvanized steel fence with pivoting legs.		
01 56 33 00-0008 DAY 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	7.46	
01 56 33 00-0009 WK 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	18.11	
01 56 33 00-0010 MO 3-1/2' x 7-1/2' Galvanized Steel Pedestrian Barricade, Rental.....	54.34	
<b>01 56 39 Temporary Tree And Plant Protection (01 56)</b>		
<b>01 56 39 00-0001 Temporary Tree Guards (01 56 39)</b> Note: Includes digging holes and removal.		
01 56 39 00-0002 EA Up To 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail.....	137.63	
01 56 39 00-0003 EA 4' x 4' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail .....	159.64	

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 50</b>	<b>Temporary Facilities And Controls</b>
	<b>01 56</b>	<b>Temporary Barriers And Enclosures</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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01 56 39 00-0004	EA	6' x 6' Temporary Tree Guard, 2" x 4" Wood Stud Framing Construction, 4 Uprights Set In Earth 2' Deep, With Double Rail .....	172.72	
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**01 57 Temporary Controls** (01 50)

**01 57 13 Temporary Erosion And Sediment Control** (01 57)

**01 57 23 Temporary Storm Water Pollution Control** (01 57)

**01 57 23 00-0001 Temporary Drain Guard** (01 57 23)

Note: Includes removal after use.

01 57 23 00-0002	EA	36" x 48" x 18" Non-Woven Polypropylene Trash and Debris Drain Guard (Ultra-Drain Guard® 9227) .....	66.59	
01 57 23 00-0003	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9217) .....	65.49	
Note: Up to 0.87 gallons oil, up to 40 lbs sediment.				
01 57 23 00-0004	EA	36" x 48" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9219) .....	80.93	
Note: Up to 1.38 gallons oil, up to 40 lbs sediment.				
01 57 23 00-0005	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9356) .....	79.82	
Note: Up to 1.55 gallons oil, up to 40 lbs sediment.				
01 57 23 00-0006	EA	60" x 60" x 18" Non-Woven Polypropylene Oil and Sediment Drain Guard (Ultra-Drain Guard® 9358) .....	96.37	
Note: Up to 2.06 gallons oil, up to 40 lbs sediment.				

**01 58 Project Identification** (01 50)

Note: Includes removal after use.

**01 58 13 Temporary Project Signage** (01 58)

**01 58 13 00-0001 Project Sign** (01 58 13)

**01 58 13 00-0002 MDO Plywood Signs** (01 58 13 00-0001)

Note: Excludes posts.

**01 58 13 00-0003 ReflectORIZED, MDO Plywood Signs** (01 58 13 00-0002)

**01 58 13 00-0004 Engineer Grade, ReflectORIZED, MDO Plywood Signs** (01 58 13 00-0003)

01 58 13 00-0005	EA	Up To 8 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign .....	104.19	19.08
For High-Intensity Grade, Add			23.11	
For Diamond Grade, Add			44.56	
01 58 13 00-0006	EA	>8 To 16 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign .....	171.96	19.95
For High-Intensity Grade, Add			46.22	
For Diamond Grade, Add			89.13	
01 58 13 00-0007	EA	>16 To 24 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign .....	239.71	20.82
For High-Intensity Grade, Add			69.32	
For Diamond Grade, Add			133.70	
01 58 13 00-0008	EA	>24 To 32 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign .....	307.47	21.69
For High-Intensity Grade, Add			92.43	
For Diamond Grade, Add			178.26	
01 58 13 00-0009	SF	>32 SF, One Or Two Color Design, Engineer Grade, ReflectORIZED, MDO Plywood Sign .....	9.63	0.69
For High-Intensity Grade, Add			2.89	
For Diamond Grade, Add			5.57	

**01 58 13 00-0010 Non-ReflectORIZED, MDO Plywood Signs** (01 58 13 00-0002)

**01 58 13 00-0011 One Or Two Color Design, Non-ReflectORIZED, MDO Plywood Signs** (01 58 13 00-0010)

01 58 13 00-0012	EA	Up To 8 SF, One Or Two Color Design, Non ReflectORIZED, MDO Plywood Sign .....	127.75	19.08
01 58 13 00-0013	EA	>8 To 16 SF, One Or Two Color Design, Non ReflectORIZED, MDO Plywood Sign .....	150.86	19.95
01 58 13 00-0014	EA	>16 To 24 SF, One Or Two Color Design, Non ReflectORIZED, MDO Plywood Sign .....	186.69	20.82
01 58 13 00-0015	EA	>24 To 32 SF, One Or Two Color Design, Non ReflectORIZED, MDO Plywood Sign .....	220.56	21.69
01 58 13 00-0016	SF	>32 SF, One Or Two Color Design, Non ReflectORIZED, MDO Plywood Sign .....	6.92	0.69

**01 58 13 00-0017 Full Color Design, Non-ReflectORIZED, MDO Plywood Signs** (01 58 13 00-0010)

01 58 13 00-0018	EA	Up To 8 SF, Full Color Design, Non ReflectORIZED, MDO Plywood Sign .....	130.27	19.08
01 58 13 00-0019	EA	>8 To 16 SF, Full Color Design, Non ReflectORIZED, MDO Plywood Sign .....	164.46	19.95
01 58 13 00-0020	EA	>16 To 24 SF, Full Color Design, Non ReflectORIZED, MDO Plywood Sign .....	200.51	20.82
01 58 13 00-0021	EA	>24 To 32 SF, Full Color Design, Non ReflectORIZED, MDO Plywood Sign .....	232.40	21.69
01 58 13 00-0022	SF	>32 SF, Full Color Design, Non ReflectORIZED, MDO Plywood Sign .....	7.29	0.69

**01 58 13 00-0023 Fabricate And Install New Posts** (01 58 13 00-0001)

Note: Includes excavation, backfill and compaction. Excludes core drilling.

01 58 13 00-0024	LF	Galvanized Metal Channel Sign Posts .....	11.78	
01 58 13 00-0025	LF	4" x 4" Pressure Treated Wood Sign Posts .....	10.48	
01 58 13 00-0026	LF	4" x 6" Pressure Treated Wood Sign Posts .....	12.03	

**01 58 13 00-0027 Owner Supplied Signs** (01 58 13 00-0001)

01 58 13 00-0028	EA	Installation And Removal Of Owner Supplied Project Sign .....	69.40	
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**01 60 Product Requirements** (01)





<b>General Requirements</b>	<b>01</b>	<b>10</b>
Product Requirements	01 60	
Product Storage And Handling Requirements	01 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**01 66 Product Storage And Handling Requirements** (01 66)

**01 66 19 Material Handling** (01 66)

Note: Not for use in conjunction with other tasks when the distance is less than 2 stories with attic (2-1/2 stories) or less than 125'.

**01 66 19 00-0001 Material Handling Between Floors** (01 66 19)

01 66 19 00-0002	CY	Transfer Delivered Material Between Floors Via Stairs, Per Floor.....	13.34
Note: Quantity equals volume of materials multiplied by number of floors traveled.			
01 66 19 00-0003	CY	Transfer Delivered Material Between Floors Via Elevator, Per Trip.....	8.68
Note: Quantity is not multiplied by number of floors traveled. Includes transfer of materials between elevators, if more than one bank of elevators is required.			

**01 66 19 00-0004 Moving Furniture** (01 66 19)

Note: To be used when contractor is required to move furniture. Not to be used when the amount of furniture is less than 55% of the total floor space. Moving of furniture which occupies less than 55% of the total floor space is considered as part of the coefficient adjustment factor.

01 66 19 00-0005	SF	Removal, Transport, Return And Reinstallation Of Office Furniture .....	0.86
Note: Includes general, desks, tables, file cabinets (full), chairs, storage boxes, bookshelves, office equipment and computers (per SF of office area). Not to be used when amount of furniture is less than 55% of total floor space.			

**01 66 19 00-0006 Material Handling For Distances Greater Than 125'** (01 66 19)

01 66 19 00-0007	CY	Transfer Delivered Materials Distances Greater Than 125', Per CY Of Material Per 125' .....	12.64
Note: For delivery, demolition or miscellaneous moving required by owner.			

**01 66 19 00-0008 Rubbish Handling Between Floors** (01 66 19)

Note: Only use with selective demolition tasks to transfer demolished material more than 2-1/2 stories.

01 66 19 00-0009	CY	Rubbish Handling Via Stairs, Per CY Of Material Per Floor .....	17.18
Note: Quantity equals material volume times bulk factor times number of floors traveled.			
01 66 19 00-0010	CY	Rubbish Handling Via Elevator, Per CY Of Material .....	10.30
Note: Quantity equals material volume times bulk factor. If more than one elevator is used, the quantity is factored by the number of transfers.			

**01 70 Execution And Closeout Requirements** (01)

**01 71 Examination And Preparation** (01 70)

**01 71 13 Mobilization** (01 71)

**01 71 13 00-0001 Equipment Delivery, Pickup, Mobilization And Demobilization** (01 71 13)

Note: Excludes flagman for traffic control where necessary.

01 71 13 00-0002	EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Rollback Flatbed Truck .....	239.72
Note: Includes delivery of equipment, off loading on site, rigging, dismantling, loading and transporting away. For equipment such as trenchers, skid-steer loaders (bobcats), industrial warehouse forklifts, sweepers, scissor platform lifts, telescoping and articulating boom manlifts with up to 40' boom lengths, etc.			
01 71 13 00-0003	EA	Equipment Delivery, Pickup, Mobilization And Demobilization Using A Tractor Trailer With Up To 53' Bed.....	599.36
Note: Includes delivery of equipment, off loading on site, rigging, dismantling, loading and transporting away. For equipment such as bulldozers, motor scrapers, hydraulic excavators, gradalls, road graders, loader-backhoes, heavy duty construction loaders, tractors, pavers, rollers, bridge finishers, straight mast construction forklifts, telescoping boom rough terrain construction forklifts, telescoping and articulating boom manlifts with >40' boom lengths, etc.			

**01 71 13 00-0004 Crane Delivery, Pickup, Mobilization And Demobilization** (01 71 13)

Note: Includes delivery of equipment, off loading on site and rigging. Return includes dismantling, loading and transporting away. Excludes flagman for traffic control where necessary.

01 71 13 00-0005	EA	Up To 20 Ton Lift Move On/Off Cost, Hydraulic Crane.....	383.54
Note: Includes delivery and pickup.			
			95.89
<i>For &gt;30 To 60 Miles Radius, Add</i>			
			153.42
<i>For &gt;60 To 100 Miles Radius, Add</i>			
01 71 13 00-0006	EA	20 To 30 Ton Lift Move On/Off Cost, Hydraulic Crane .....	623.26
Note: Includes delivery and pickup.			
			155.82
<i>For &gt;30 To 60 Miles Radius, Add</i>			
			249.30
<i>For &gt;60 To 100 Miles Radius, Add</i>			
01 71 13 00-0007	EA	40 To 50 Ton Lift Move On/Off Cost, Hydraulic Crane .....	862.98
Note: Includes delivery and pickup.			
			215.75
<i>For &gt;30 To 60 Miles Radius, Add</i>			
			345.19
<i>For &gt;60 To 100 Miles Radius, Add</i>			
01 71 13 00-0008	EA	70 To 100 Ton Lift Move On/Off Cost, Hydraulic Crane .....	1,390.36
Note: Includes delivery and pickup.			
			347.59
<i>For &gt;30 To 60 Miles Radius, Add</i>			
			556.14
<i>For &gt;60 To 100 Miles Radius, Add</i>			
01 71 13 00-0009	EA	75 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane.....	1,102.70
Note: Includes delivery and pickup.			
			275.68
<i>For &gt;30 To 60 Miles Radius, Add</i>			
			441.08
<i>For &gt;60 To 100 Miles Radius, Add</i>			

<b>01</b>	<b>01</b>	<b>General Requirements</b>
	<b>01 70</b>	<b>Execution And Closeout Requirements</b>
	<b>01 71</b>	<b>Examination And Preparation</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 13 00-0010	EA		100 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery and pickup.	1,773.90	
			<i>For &gt;30 To 60 Miles Radius, Add</i>	443.48	
			<i>For &gt;60 To 100 Miles Radius, Add</i>	709.56	
01 71 13 00-0011	EA		125 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery and pickup.	2,234.16	
			<i>For &gt;30 To 60 Miles Radius, Add</i>	558.54	
			<i>For &gt;60 To 100 Miles Radius, Add</i>	893.66	
01 71 13 00-0012	EA		150 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery and pickup.	2,771.13	
			<i>For &gt;30 To 60 Miles Radius, Add</i>	692.78	
			<i>For &gt;60 To 100 Miles Radius, Add</i>	1,108.45	
01 71 13 00-0013	EA		250 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery and pickup.	4,027.24	
			<i>For &gt;30 To 60 Miles Radius, Add</i>	1,006.81	
			<i>For &gt;60 To 100 Miles Radius, Add</i>	1,610.90	
01 71 13 00-0014	EA		300 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery and pickup.	5,753.20	
			<i>For &gt;30 To 60 Miles Radius, Add</i>	1,438.30	
			<i>For &gt;60 To 100 Miles Radius, Add</i>	2,301.28	
01 71 13 00-0015	EA		500 Ton Lift Move On/Off Cost, Cable Controlled Lattice Boom Mechanical Crane ..... Note: Includes delivery and pickup.	7,910.65	
			<i>For &gt;30 To 60 Miles Radius, Add</i>	1,977.66	
			<i>For &gt;60 To 100 Miles Radius, Add</i>	3,164.26	
<b>01 71 23 Field Engineering (01 71)</b>					
<b>01 71 23 16 Construction Surveying (01 71 23)</b>					
<b>01 71 23 16-0001 Survey Crew (01 71 23 16)</b>					
01 71 23 16-0002	HR		2 Person Survey Crew (Unit Of Measure Is Per Crew Hour Worked) ..... Note: Includes surveyor, rodman, equipment and instruments.	234.50	
01 71 23 16-0003	HR		3 Person Survey Crew (Unit Of Measure Is Per Crew Hour Worked) ..... Note: Includes surveyor, rodman, chainman, equipment and instruments.	319.50	
01 71 23 16-0004	HR		4 Person Survey Crew (Unit Of Measure Is Per Crew Hour Worked) ..... Note: Includes two surveyors, rodman, chainman, equipment and instruments.	456.77	
<b>01 71 23 16-0005 Conventional Topographic Survey (01 71 23 16)</b>					
Note: The professional services include AutoCAD drafting and certification. The survey includes location of structures, walks, drives, parking, significant vegetation, utilities, etc. The area within building footprint is not to be considered as part of the acreage.					
01 71 23 16-0006	ACR		Survey Clear Area With Few To No Obstacles .....	862.11	
01 71 23 16-0007	ACR		Survey Clear Area With Medium Height Vegetation, Few Trees (<5% Buildings) .....	2,490.38	
01 71 23 16-0008	ACR		Survey Clear Area With Few Structures, And/Or Wooded (5-25% Buildings) .....	3,569.52	
01 71 23 16-0009	ACR		Survey Developed Areas With Several Structures (25-65% Buildings) .....	5,421.21	
01 71 23 16-0010	ACR		Survey Highly Developed Areas, Sidewalks, Etcetera (>65% Buildings) .....	6,807.43	
<b>01 71 23 16-0011 Property Lines Survey (01 71 23 16)</b>					
Note: Not to be added to tasks in the "Conventional Topographic Survey" section.					
01 71 23 16-0012	LF		Survey Property Lines On Cleared Land .....	2.08	
01 71 23 16-0013	LF		Survey Property Lines On Slightly Wooded Land .....	2.41	
01 71 23 16-0014	LF		Survey Property Lines On Wooded Land .....	2.82	
<b>01 71 23 16-0015 Survey Monument (01 71 23 16)</b>					
01 71 23 16-0016	EA		3' Precast Survey Monument .....	130.50	
			<i>For Owner Furnished Monument, Deduct</i>	-58.62	
01 71 23 16-0017	EA		Precast Survey Monument Box With Cast Iron Frame And Cover .....	181.54	
01 71 23 16-0018	EA		Riser Ring For Survey Monument .....	90.94	
01 71 23 16-0019	EA		Adjust Survey Monument Cover To Grade .....	58.62	
<b>01 71 23 16-0020 Facade Surveying (01 71 23 16)</b>					
01 71 23 16-0021	LF		Facade Survey And Reports (LF Of Facade x Number Of Floors) .....	5.71	
<b>01 71 23 16-0022 Utility Survey (01 71 23 16)</b>					
Note: This survey is only for the location of underground utilities.					
01 71 23 16-0023	ACR		Survey Clear Area For Underground Utilities .....	4,714.36	
<b>01 71 36 Non-Destructive Concrete Examination (01 71)</b>					
<b>01 71 36 00-0001 Electromagnetic Survey (01 71 36)</b>					
Note: To locate reinforcing bars, conduits, pipes, etc., prior to core drilling or cutting existing concrete, masonry or asphalt. Electromagnetic survey includes Subsurface Interface Radar (SIR) and/or Ground Penetrating Radar (GPR). Includes printed reports.					
01 71 36 00-0002			Electromagnetic Survey Minimum Set-Up Charge (01 71 36 00-0001)		



<b>General Requirements</b>			<b>01</b>
<b>Execution And Closeout Requirements</b>			<b>01 70</b>
<b>Examination And Preparation</b>			<b>01 71</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 71 36 00-0003 EA Electromagnetic Survey Minimum Set-Up Charge.....	816.93	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
<b>01 71 36 00-0004 Electromagnetic (SIR/GPR) Survey</b> (01 71 36 00-0001)		
01 71 36 00-0005 EA Electromagnetic (SIR/GPR) Survey Up To 4 SF Of Concrete, Masonry Or Asphalt.....	294.12	
01 71 36 00-0006 EA Electromagnetic (SIR/GPR) Survey >4 To 500 SF Of Concrete, Masonry Or Asphalt .....	588.25	
01 71 36 00-0007 SF Electromagnetic (SIR/GPR) Survey >500 SF Of Concrete, Masonry Or Asphalt .....	1.18	
<b>01 74 Cleaning And Waste Management</b> (01 74)		
<b>01 74 13 Progress Cleaning</b> (01 74)		
Note: For use on existing areas other than where actual work is to be performed where ordered by the owner. Daily cleanup and final cleanup is included in the contractor's adjustment factor.		
<b>01 74 13 00-0001 General</b> (01 74 13)		
01 74 13 00-0002 CSF Clean Miscellaneous Surfaces, Wipe Down With Mild Detergent.....	17.36	
01 74 13 00-0003 CY Collect Existing Debris And Load Into Truck Or Dumpster .....	20.34	
Note: Per CY of debris removed.		
<b>01 74 16 Site Maintenance</b> (01 74)		
<b>01 74 16 00-0001 Parking Lot, Roads And Pathway Maintenance</b> (01 74 16)		
Note: These tasks shall be used for maintenance of existing roads and walks only as requested by the owner. Do not use these tasks in conjunction with related installation/demolition tasks in the Construction Task Catalog®.		
<b>01 74 16 00-0002 Parking Lot, Road, And Street Sweeping</b> (01 74 16 00-0001)		
01 74 16 00-0003 MSF Sweep Parking Lot, With Street Sweeper.....	16.45	
01 74 16 00-0004 MSF Sweeper/Vacuum/Sprayer For Parking Lots, Streets And Roads.....	19.74	
<b>01 74 16 00-0005 Runway Sweeping</b> (01 74 16 00-0001)		
01 74 16 00-0006 MSF Sweep Runway, With Street Sweep .....	24.68	
<b>01 74 19 Construction Waste Management And Disposal</b> (01 74)		
Note: Tasks in this section shall be used as directed by owner.		
<b>01 74 19 00-0001 Debris Chutes</b> (01 74 19)		
Note: Includes hopper sections and entry sections. Used as required for buildings of all heights.		
<b>01 74 19 00-0002 Steel Temporary Debris Chutes</b> (01 74 19 00-0001)		
01 74 19 00-0003 LF 18" Diameter, Steel Temporary Debris Chute.....	28.49	
01 74 19 00-0004 LF 30" Diameter, Steel Temporary Debris Chute.....	42.19	
<b>01 74 19 00-0005 Plastic Temporary Debris Chutes</b> (01 74 19 00-0001)		
01 74 19 00-0006 LF 24" Diameter, Plastic Temporary Debris Chute .....	11.25	
For Steel Liner, Add		
	2.10	
01 74 19 00-0007 LF 30" Diameter, Plastic Temporary Debris Chute .....	12.88	
For Steel Liner, Add		
	2.41	
01 74 19 00-0008 LF 36" Diameter, Plastic Temporary Debris Chute .....	14.51	
For Steel Liner, Add		
	2.72	
<b>01 74 19 00-0009 Wood Temporary Debris Chutes</b> (01 74 19 00-0001)		
01 74 19 00-0010 LF 4' x 4', Wood Temporary Debris Chute.....	20.92	
Note: Includes fabrication and installation.		
<b>01 74 19 00-0011 Construction Dumpsters Rental</b> (01 74 19)		
Note: Includes delivery and pick-up of dumpster, hauling of debris, rental of dumpster and all applicable non-hazardous disposal fees. Cost of "each" is based on each pick-up. Unacceptable materials include: aerosol cans, all liquids, animals, antifreeze, appliances, asbestos, barrels, batteries, chemical products, computers, contaminated oils (mixed with solvents, gasoline, etc.), dirt, fluorescent tubes, hazardous waste, herbicides & pesticides, industrial waste, lubricating/hydraulic oil, mattresses, medical waste, microwaves, monitors, motor oil, oil filters, other flammable liquids, paint (except completely dried latex paint cans, no liquids), petroleum-contaminated soil/lead paint chips, propane tanks, radioactive material, railroad ties, solvents, televisions, tires, and transmission oil.		
01 74 19 00-0012 EA 10 CY Dumpster (1.5 Ton) "Construction Debris".....	474.98	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add		
	95.00	
01 74 19 00-0013 EA 15 CY Dumpster (2 Ton) "Construction Debris".....	475.00	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add		
	95.00	
01 74 19 00-0014 EA 20 CY Dumpster (3 Ton) "Construction Debris".....	555.00	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add		
	95.00	
01 74 19 00-0015 EA 30 CY Dumpster (4 Ton) "Construction Debris".....	649.98	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add		
	95.00	

<b>01</b>	<b>General Requirements</b>
<b>01 70</b>	<b>Execution And Closeout Requirements</b>
<b>01 74</b>	<b>Cleaning And Waste Management</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
01 74 19 00-0016 EA 40 CY Dumpster (5 Ton) "Construction Debris".....	744.98	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Non-hazardous material.		
For Each Ton Over Indicated Amount, Add	95.00	
01 74 19 00-0017 EA 10 CY Low-Boy Dumpster "Concrete Or Asphalt Only" .....	744.98	
Note: Includes delivery of dumpster, rental cost, pick-up cost, hauling, and disposal fee. Concrete or asphalt only.		
01 74 19 00-0018 EA 15 CY Low-Boy Dumpster Clean Recyclable.....	713.05	
Note: For clean dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
01 74 19 00-0019 EA 15 CY Low-Boy Dumpster Mixed Recyclable .....	766.26	
Note: For mixed dirt, rock, concrete brick or asphalt with no trash or organics. Includes service to deliver and pick-up dumpster, hauling, rental and disposal fee.		
<b>01 74 19 00-0020 Concrete Washout Service (01 74 19)</b>		
01 74 19 00-0021 MO Rampless Concrete Washout Bin .....	477.62	
Note: Includes delivery.		
01 74 19 00-0022 MO Ramped Concrete Washout Bin.....	573.15	
Note: Includes delivery.		
01 74 19 00-0023 EA Interim Vacuum Service, Concrete Washout Bin .....	330.15	
Note: Includes vacuum and recycle excess clear liquid from the unfilled bin to allow additional space for washout material.		
01 74 19 00-0024 EA Vacuum, Pickup, Swap And Dump, Concrete Washout Bin .....	715.32	
Note: Includes vacuum the liquid from the full bin and pick up the bin, and recycle all material. An empty bin will be left at the site if the project is not completed.		
<b>01 74 19 00-0025 Debris Processing Fee (01 74 19)</b>		
<b>01 74 19 00-0026 Recycler Fees (01 74 19 00-0025)</b>		
Note: Does not apply with use of dumpsters. Excludes hauling.		
01 74 19 00-0027 TRK Drop-Off Mixed Materials At Recycling Center, Concrete And Asphalt, Clean (Semi-Truck Load).....	223.64	
01 74 19 00-0028 TRK Drop-Off Mixed Materials At Recycling Center, Concrete And Asphalt, With Metal And Rebar.....	230.74	
<b>01 74 19 00-0029 Landfill Dump Fees (01 74 19 00-0025)</b>		
Note: Does not apply when material is transferred to owner's site or facility, or with use of dumpsters. Excludes hauling. See CSI section 01 74 19 00-0037 for hauling.		
01 74 19 00-0030 CY Traditional Building Construction Materials Landfill Dump Fee.....	26.39	
01 74 19 00-0031 CY Trees, Stumps And Brush, Landfill Dump Fee.....	31.76	
01 74 19 00-0032 CY Rubbish Landfill Dump Fee.....	25.90	
01 74 19 00-0033 CY Hazardous Materials And Rubbish (Paint Cans, Etcetera) Landfill Dump Fee .....	75.74	
01 74 19 00-0034 CY Excavated Dirt Landfill Dump Fee.....	25.41	
01 74 19 00-0035 CY Asphalt, Concrete, Gravel And Subgrade Material, Landfill Dump Fee .....	53.82	
01 74 19 00-0036 TON Traditional Building Construction Materials, Landfill Dump Fee.....	115.00	
<b>01 74 19 00-0037 Hauling (01 74 19)</b>		
Note: Includes driver and equipment, ten (10) to fifteen (15) minutes load time, time for travel, dump time and return (roundtrip). The task quantity is the number of miles to the disposal site/transfer station (one way mileage) times the number of cubic yards being transported. For example, to haul 8 CY to a site 14 miles away, the quantity is calculated as follows: 14 miles x 8 CY = 112 CYM. Use both hauling tasks for distances greater than 15 miles. To haul 28 CY to a site 32 miles away, the quantity for the task to haul the first 15 miles is calculated: 15 miles x 28 CY = 420 CYM. The quantity for the additional hauling task over the first 15 miles is calculated: 32 total miles less 15 initial miles equals 17 miles x 28 CY = 476 CYM.		
01 74 19 00-0038 CYM Hauling On Paved Roads, First 15 Miles .....	0.72	
01 74 19 00-0039 CYM Hauling On Paved Roads, Miles Over Initial 15 Miles.....	0.48	
01 74 19 00-0040 CYM Hauling On Unimproved Roads, First 15 Miles.....	1.11	
01 74 19 00-0041 CYM Hauling On Unimproved Roads, Miles Over Initial 15 Miles.....	0.87	
<b>01 74 23 Final Cleaning (01 74)</b>		
<b>01 74 23 00-0001 Glass (01 74 23)</b>		
01 74 23 00-0002 CSF Clean Existing Glass Surfaces.....	22.81	

**END OF SECTION 01**



<b>Existing Conditions</b>	<b>02</b>	<b>02</b>
Assessment	02 20	
Existing Material Assessment	02 25	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 02 Existing Conditions

### 02 20 Assessment <sup>(02)</sup>

#### 02 25 Existing Material Assessment <sup>(02 20)</sup>

##### **02 25 16 Existing Concrete, Masonry Or Asphalt Assessment** <sup>(02 25)</sup>

See CSI section 01 71 36 00-0000 for non-destructive concrete examination.

### 02 40 Demolition And Structure Moving <sup>(02)</sup>

#### 02 41 Demolition <sup>(02 40)</sup>

##### **02 41 13 Selective Site Demolition** <sup>(02 41)</sup>

###### **02 41 13 13 Paving Removal** <sup>(02 41 13)</sup>

Note: Includes break-up of material, loading into truck or dumpster and clean-up. Salvage tasks include placement on pallets and storage on site.

###### 02 41 13 13-0001 By Machine, Break-up And Leave In Place Bituminous And Concrete Paving <sup>(02 41 13 13)</sup>

Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting. See CSI section 02 41 13 13-0018 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0001 for saw cutting.

02 41 13 13-0002	SY	Up To 3" By Machine, Break-up And Leave In Place Bituminous Paving .....	5.34
		For >500 To 1,000, Deduct	-0.53
		For >1,000 To 2,500, Deduct	-0.96
		For >2,500 To 5,000, Deduct	-1.39
		For >5,000 To 10,000, Deduct	-1.82
		For >10,000, Deduct	-2.24
02 41 13 13-0003	SY	>3" To 6" By Machine, Break-up And Leave In Place Bituminous Paving .....	8.01
		For >500 To 1,000, Deduct	-0.80
		For >1,000 To 2,500, Deduct	-1.44
		For >2,500 To 5,000, Deduct	-2.08
		For >5,000 To 10,000, Deduct	-2.72
		For >10,000, Deduct	-3.36
02 41 13 13-0004	SY	>6" To 8" By Machine, Break-up And Leave In Place Bituminous Paving .....	10.69
		For >500 To 1,000, Deduct	-1.07
		For >1,000 To 2,500, Deduct	-1.92
		For >2,500 To 5,000, Deduct	-2.78
		For >5,000 To 10,000, Deduct	-3.63
		For >10,000, Deduct	-4.49
02 41 13 13-0005	SY	Up To 3" By Machine, Break-up And Leave In Place Concrete Paving .....	9.47
		For >500 To 1,000, Deduct	-0.95
		For >1,000 To 2,500, Deduct	-1.70
		For >2,500 To 5,000, Deduct	-2.46
		For >5,000 To 10,000, Deduct	-3.22
		For >10,000, Deduct	-3.98
02 41 13 13-0006	SY	>3" To 6" By Machine, Break-up And Leave In Place Concrete Paving .....	13.37
		For >500 To 1,000, Deduct	-1.34
		For >1,000 To 2,500, Deduct	-2.41
		For >2,500 To 5,000, Deduct	-3.48
		For >5,000 To 10,000, Deduct	-4.55
		For >10,000, Deduct	-5.62
02 41 13 13-0007	SY	>6" To 9" By Machine, Break-up And Leave In Place Concrete Paving .....	18.94
		For >500 To 1,000, Deduct	-1.89
		For >1,000 To 2,500, Deduct	-3.41
		For >2,500 To 5,000, Deduct	-4.92
		For >5,000 To 10,000, Deduct	-6.44
		For >10,000, Deduct	-7.95
02 41 13 13-0008	SY	>9" To 14" By Machine, Break-up And Leave In Place Concrete Paving .....	26.73
		For >500 To 1,000, Deduct	-2.67
		For >1,000 To 2,500, Deduct	-4.81
		For >2,500 To 5,000, Deduct	-6.95
		For >5,000 To 10,000, Deduct	-9.09
		For >10,000, Deduct	-11.23
02 41 13 13-0009	SY	>14" To 19" By Machine, Break-up And Leave In Place Concrete Paving .....	34.96
		For >500 To 1,000, Deduct	-3.50
		For >1,000 To 2,500, Deduct	-6.29
		For >2,500 To 5,000, Deduct	-9.09
		For >5,000 To 10,000, Deduct	-11.89
		For >10,000, Deduct	-14.68
02 41 13 13-0010	SY	>19" To 24" By Machine, Break-up And Leave In Place Concrete Paving .....	45.45
		For >500 To 1,000, Deduct	-4.55
		For >1,000 To 2,500, Deduct	-8.18
		For >2,500 To 5,000, Deduct	-11.82
		For >5,000 To 10,000, Deduct	-15.45
		For >10,000, Deduct	-19.09

<b>02</b>	<b>Existing Conditions</b>
<b>02 40</b>	<b>Demolition And Structure Moving</b>
<b>02 41</b>	<b>Demolition</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 41 13 13-0011	By Hand, Break-up And Leave In Place Bituminous And Concrete Paving <sup>(02 41 13 13)</sup>	
	Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles with jackhammer and hand tools. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. These tasks are not to be used in conjunction with any other loading activities or other break-up tasks. Excludes saw cutting. See CSI section 02 41 13 13-0018 for breaking-up, removal and loading as a combined operation, 02 41 13 13-0032 for breaking-up, removal and loading as a combined operation, 02 41 19 13-0001 for saw cutting.	
02 41 13 13-0012	SF Up To 3" By Hand, Break-up And Leave In Place Bituminous Paving.....	1.36
02 41 13 13-0013	SF >3" To 6" By Hand, Break-up And Leave In Place Bituminous Paving.....	1.73
02 41 13 13-0014	SF >6" To 8" By Hand, Break-up And Leave In Place Bituminous Paving.....	2.29
02 41 13 13-0015	SF Up To 3" By Hand, Break-up And Leave In Place Concrete Paving.....	1.71
02 41 13 13-0016	SF >3" To 6" By Hand, Break-up And Leave In Place Concrete Paving.....	2.17
02 41 13 13-0017	SF Break-Up >6" To 8" Concrete Paving By Hand With Material Left In Place After Break-up.....	2.86
02 41 13 13-0018	By Machine, Break-up And Remove Bituminous And Concrete Paving <sup>(02 41 13 13)</sup>	
	Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles, breaking into manageable sizes by machine and loading into truck, dumpster or moving material to stockpile. Excludes saw cutting. See CSI section 02 41 19 13-0001 for saw cutting.	
02 41 13 13-0019	SY Up To 3" By Machine, Break-up And Remove Bituminous Paving.....	10.57
	For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	3.17
	Note: (Around Existing Structures And Obstructions), Add	
	For Elevated Slab, Add	5.29
	For >500 To 1,000, Deduct	-1.06
	For >1,000 To 2,500, Deduct	-1.90
	For >2,500 To 5,000, Deduct	-2.75
	For >5,000 To 10,000, Deduct	-3.59
	For >10,000, Deduct	-4.44
02 41 13 13-0020	SY >3" To 6" By Machine, Break-up And Remove Bituminous Paving.....	14.43
	For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.33
	Note: (Around Existing Structures And Obstructions), Add	
	For Elevated Slab, Add	7.22
	For >500 To 1,000, Deduct	-1.44
	For >1,000 To 2,500, Deduct	-2.60
	For >2,500 To 5,000, Deduct	-3.75
	For >5,000 To 10,000, Deduct	-4.91
	For >10,000, Deduct	-6.06
02 41 13 13-0021	SY Up To 3" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	12.16
	For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	3.65
	Note: (Around Existing Structures And Obstructions), Add	
	For Elevated Slab, Add	6.08
	For >500 To 1,000, Deduct	-1.22
	For >1,000 To 2,500, Deduct	-2.19
	For >2,500 To 5,000, Deduct	-3.16
	For >5,000 To 10,000, Deduct	-4.13
	For >10,000, Deduct	-5.11
02 41 13 13-0022	SY >3" To 6" By Machine, Break-up And Remove Non Reinforced Concrete Paving.....	15.90
	For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.77
	Note: (Around Existing Structures And Obstructions), Add	
	For Elevated Slab, Add	7.95
	For >500 To 1,000, Deduct	-1.59
	For >1,000 To 2,500, Deduct	-2.86
	For >2,500 To 5,000, Deduct	-4.13
	For >5,000 To 10,000, Deduct	-5.41
	For >10,000, Deduct	-6.68
02 41 13 13-0023	SY Up To 3" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	16.14
	For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	4.84
	Note: (Around Existing Structures And Obstructions), Add	
	For Elevated Slab, Add	8.07
	For >500 To 1,000, Deduct	-1.61
	For >1,000 To 2,500, Deduct	-2.91
	For >2,500 To 5,000, Deduct	-4.20
	For >5,000 To 10,000, Deduct	-5.49
	For >10,000, Deduct	-6.78
02 41 13 13-0024	SY >3" To 6" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	20.90
	For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	6.27
	Note: (Around Existing Structures And Obstructions), Add	
	For Elevated Slab, Add	10.45
	For >500 To 1,000, Deduct	-2.09
	For >1,000 To 2,500, Deduct	-3.76
	For >2,500 To 5,000, Deduct	-5.43
	For >5,000 To 10,000, Deduct	-7.11
	For >10,000, Deduct	-8.78
02 41 13 13-0025	SY >6" To 9" By Machine, Break-up And Remove Welded Wire Reinforced Concrete Paving.....	34.65
	For Additional Cost Of Hand Held Equipment Usage (Around Existing Structures And Obstructions), Add	10.40
	Note: (Around Existing Structures And Obstructions), Add	
	For Elevated Slab, Add	17.33
	For >500 To 1,000, Deduct	-3.47
	For >1,000 To 2,500, Deduct	-6.24
	For >2,500 To 5,000, Deduct	-9.01
	For >5,000 To 10,000, Deduct	-11.78
	For >10,000, Deduct	-14.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 13 13-0026 SY Up To 3" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	17.50	
<i>For Elevated Slab, Add</i>	8.75	
<i>For &gt;500 To 1,000, Deduct</i>	-1.75	
<i>For &gt;1,000 To 2,500, Deduct</i>	-3.15	
<i>For &gt;2,500 To 5,000, Deduct</i>	-4.55	
<i>For &gt;5,000 To 10,000, Deduct</i>	-5.95	
<i>For &gt;10,000, Deduct</i>	-7.35	
02 41 13 13-0027 SY >3" To 6" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	22.50	
<i>For Elevated Slab, Add</i>	11.25	
<i>For &gt;500 To 1,000, Deduct</i>	-2.25	
<i>For &gt;1,000 To 2,500, Deduct</i>	-4.05	
<i>For &gt;2,500 To 5,000, Deduct</i>	-5.85	
<i>For &gt;5,000 To 10,000, Deduct</i>	-7.65	
<i>For &gt;10,000, Deduct</i>	-9.45	
02 41 13 13-0028 SY >6" To 9" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	40.22	
<i>For Elevated Slab, Add</i>	20.11	
<i>For &gt;500 To 1,000, Deduct</i>	-4.02	
<i>For &gt;1,000 To 2,500, Deduct</i>	-7.24	
<i>For &gt;2,500 To 5,000, Deduct</i>	-10.46	
<i>For &gt;5,000 To 10,000, Deduct</i>	-13.67	
<i>For &gt;10,000, Deduct</i>	-16.89	
02 41 13 13-0029 SY >9" To 14" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	52.50	
<i>For Elevated Slab, Add</i>	26.25	
<i>For &gt;500 To 1,000, Deduct</i>	-5.25	
<i>For &gt;1,000 To 2,500, Deduct</i>	-9.45	
<i>For &gt;2,500 To 5,000, Deduct</i>	-13.65	
<i>For &gt;5,000 To 10,000, Deduct</i>	-17.85	
<i>For &gt;10,000, Deduct</i>	-22.05	
02 41 13 13-0030 SY >14" To 19" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	68.62	
<i>For Elevated Slab, Add</i>	34.31	
<i>For &gt;500 To 1,000, Deduct</i>	-6.86	
<i>For &gt;1,000 To 2,500, Deduct</i>	-12.35	
<i>For &gt;2,500 To 5,000, Deduct</i>	-17.84	
<i>For &gt;5,000 To 10,000, Deduct</i>	-23.33	
<i>For &gt;10,000, Deduct</i>	-28.82	
02 41 13 13-0031 SY >19" To 24" By Machine, Break-up And Remove Rod Reinforced Concrete Paving.....	83.28	
<i>For Elevated Slab, Add</i>	41.64	
<i>For &gt;500 To 1,000, Deduct</i>	-8.33	
<i>For &gt;1,000 To 2,500, Deduct</i>	-14.99	
<i>For &gt;2,500 To 5,000, Deduct</i>	-21.65	
<i>For &gt;5,000 To 10,000, Deduct</i>	-28.32	
<i>For &gt;10,000, Deduct</i>	-34.98	
02 41 13 13-0032 <b>By Hand, Break-up And Remove Bituminous And Concrete Paving</b> (02 41 13 13)		
Note: Includes slabs, pavements, sidewalks and base courses. Includes work around obstacles. Work includes breaking into manageable size with jackhammer and hand tools, removal and loading onto a truck or dumpster. For individual work areas up to 100 SF where conventional equipment access is limited or prohibited. Task is only to be used when requested by owner. Excludes saw cutting. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 13 13-0033 SF Up To 3" By Hand, Break-up And Remove Bituminous Paving.....	3.04	
02 41 13 13-0034 SF >3" To 6" By Hand, Break-up And Remove Bituminous Paving.....	4.00	
02 41 13 13-0035 SF >6" To 8" By Hand, Break-up And Remove Bituminous Paving.....	5.20	
02 41 13 13-0036 SF Up To 3" By Hand, Break-up And Remove Concrete Paving.....	3.80	
02 41 13 13-0037 SF >3" To 6" By Hand, Break-up And Remove Concrete Paving.....	5.25	
02 41 13 13-0038 SF >6" To 8" By Hand, Break-up And Remove Concrete Paving.....	6.71	
02 41 13 13-0039 <b>Grind Concrete</b> (02 41 13 13)		
02 41 13 13-0040 EA Grind Existing Sidewalks Up To 1/2" Depth To Remove Ridges (Tripping Hazard) .....	197.83	
Note: For each location up to 5' wide, feather up to 12' each direction.		
<i>For &gt;1/2" To 1" Depth Of Grinding, Add</i>	29.67	
<i>For &gt;1" To 1-1/2" Depth Of Grinding, Add</i>	49.46	
<i>For Up To 5, Add</i>	39.57	
<i>For &gt;5 To 10, Add</i>	19.78	
<i>For &gt;25 To 50, Deduct</i>	-19.78	
<i>For &gt;50 To 250, Deduct</i>	-29.67	
<i>For &gt;250, Deduct</i>	-39.57	
<i>For Sidewalks &gt;5', Add</i>	19.78	
<i>For Up To 12" Additional Feathering Per Side, Add</i>	19.78	
02 41 16 <b>Structure Demolition</b> (02 41)		
02 41 16 13 <b>Building Demolition</b> (02 41 16)		
02 41 16 13-0001 <b>Building Interior Demolition</b> (02 41 16 13)		
Note: Gutted and placed in truck or dumpsters. Based on overall floor area including space under demolished walls. Includes all soft stripping of materials (doors and frames, non-load bearing walls, carpet, moldings, drywall, tile, ceiling, ductwork, piping, light fixtures, etc.), accessible mechanical, electrical, plumbing, overhead sprinkler, fire protection and similar systems. Excludes lead, asbestos or other contaminants or load bearing walls, mechanical, plumbing or electrical equipment such as furnaces, water heaters, plumbing fixtures, sump pumps, switchgear or panelboards. Excludes hauling, dump fees, recycling charges, and/or salvage value.		
02 41 16 13-0002 GSF Residential Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck .....	6.12	
02 41 16 13-0003 GSF Up To 2,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck.....	9.26	
02 41 16 13-0004 GSF >2,000 To 10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck.....	7.57	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 41 16 13-0005	GSF >10,000 SF Commercial Building Interior Demolition, Gutting And Placing Into Dumpster Or Truck.....	6.73
<b>02 41 16 13-0006</b>	<b>Commercial And Residential Structures Demolition</b> <small>(02 41 16 13)</small>	
	Note: Complete demolition of structures. Includes site and building safety preparation, signage, dust control, scattered debris and other site clean-up, demolition equipment, and repair of any damaged adjacent property. Excludes (if required) utility disconnects and capping, underground or above ground storage tank removal, adjacent property protection, cleanup and work, site paving and concrete, recycling fees, gutting/soft stripping (selective removal of materials for reuse) of building, site security, hazardous material abatement (including lead, asbestos, and PCBs), surveys, clearing and grubbing of site, cranes, traffic control, elevator removal, major mechanical equipment such as boilers, chillers, cooling towers, Etc., excavation or backfill, foundations, basement floor, slab-on grade, temporary fencing (installation and removal), hauling, disposal and dump fees for all debris (site and building), earthwork and erosion control. Pricing is by Hundred Cubic Foot (CCF) of complete building volume being demolished. For computing building volume, height is computed at actual floor-to-floor dimensions with attic and basement each computed at half-height, width and length are actual dimensions. Excludes salvage value.	
<b>02 41 16 13-0007</b>	<b>Steel Framed Building Demolition</b> <small>(02 41 16 13-0006)</small>	
	Note: Includes masonry partitions and concrete decks.	
02 41 16 13-0008	CCF By Pneumatic Tools/Hand, Steel Framed Building Demolition .....	55.79
	For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-4.18
	For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-8.37
	For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-12.55
	For Up To 500, Add	16.74
	For >500 To 1,000, Add	11.16
	For >1,000 To 2,000, Add	5.58
	For Volume Of Area Within 15' To An Adjacent Building, Add	18.41
	For No Interior Partitions, Deduct	-13.95
02 41 16 13-0009	CCF By Machine, Steel Framed Building Demolition .....	34.20
	For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-2.57
	For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-5.13
	For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-7.70
	For Up To 500, Add	10.26
	For >500 To 1,000, Add	6.84
	For >1,000 To 2,000, Add	3.42
	For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	5.13
	For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	8.55
	For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	11.97
	For Volume Of Area Within 15' To An Adjacent Building, Add	11.29
	For No Interior Partitions, Deduct	-8.55
<b>02 41 16 13-0010</b>	<b>Reinforced Concrete Building Demolition</b> <small>(02 41 16 13-0006)</small>	
02 41 16 13-0011	CCF By Pneumatic Tools/Hand, Reinforced Concrete Building Demolition .....	70.01
	For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-5.25
	For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-10.50
	For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-15.75
	For Up To 500, Add	21.00
	For >500 To 1,000, Add	14.00
	For >1,000 To 2,000, Add	7.00
	For Volume Of Area Within 15' To An Adjacent Building, Add	23.10
	For No Interior Partitions, Deduct	-17.50
02 41 16 13-0012	CCF By Machine, Reinforced Concrete Building Demolition.....	45.15
	For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-3.39
	For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-6.77
	For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-10.16
	For Up To 500, Add	13.55
	For >500 To 1,000, Add	9.03
	For >1,000 To 2,000, Add	4.52
	For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	6.77
	For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	11.29
	For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	15.80
	For Volume Of Area Within 15' To An Adjacent Building, Add	14.90
	For No Interior Partitions, Deduct	-11.29
<b>02 41 16 13-0013</b>	<b>Masonry Construction Building Demolition</b> <small>(02 41 16 13-0006)</small>	
02 41 16 13-0014	CCF By Pneumatic Tools/Hand, Masonry Construction Building Demolition.....	49.19
	For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-3.69
	For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-7.38
	For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-11.07
	For Up To 500, Add	14.76
	For >500 To 1,000, Add	9.84
	For >1,000 To 2,000, Add	4.92
	For Volume Of Area Within 15' To An Adjacent Building, Add	16.23
	For No Interior Partitions, Deduct	-12.30





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0015 CCF By Machine, Masonry Construction Building Demolition.....	30.68	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-2.30	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-4.60	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-6.90	
For Up To 500, Add	9.20	
For >500 To 1,000, Add	6.14	
For >1,000 To 2,000, Add	3.07	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	4.60	
For Work >6 Stories To 10 Stories (Exclude Volume Below), Add	7.67	
For Work >10 Stories To 15 Stories (Exclude Volume Below), Add	10.74	
For Volume Of Area Within 15' To An Adjacent Building, Add	10.12	
For No Interior Partitions, Deduct	-7.67	
<b>02 41 16 13-0016 Wood Frame Construction Building Demolition (02 41 16 13-0006)</b>		
02 41 16 13-0017 CCF By Pneumatic Tools/Hand, Wood Frame Construction Building Demolition .....	42.75	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-3.21	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-6.41	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-9.62	
For Up To 500, Add	12.83	
For >500 To 1,000, Add	8.55	
For >1,000 To 2,000, Add	4.28	
For Volume Of Area Within 15' To An Adjacent Building, Add	14.11	
For No Interior Partitions, Deduct	-10.69	
02 41 16 13-0018 CCF By Machine, Wood Frame Construction Building Demolition.....	26.25	
For Floor-To-Floor (Or Floor-To-Structure) Heights >12' To 15', Deduct	-1.97	
For Floor-To-Floor (Or Floor-To-Structure) Heights >15' To 18', Deduct	-3.94	
For Floor-To-Floor (Or Floor-To-Structure) Heights >18' To 21', Deduct	-5.91	
For Up To 500, Add	7.88	
For >500 To 1,000, Add	5.25	
For >1,000 To 2,000, Add	2.63	
For Work >3 Stories To 6 Stories (Exclude Volume Below), Add	3.94	
For Volume Of Area Within 15' To An Adjacent Building, Add	8.66	
For No Interior Partitions, Deduct	-6.56	
<b>02 41 16 13-0019 Sorting Of Material Debris For Recycling Prior To Hauling Off (02 41 16 13-0006)</b>		
Note: Per building volume.		
02 41 16 13-0020 CCF Sorting Of Material Debris For Recycling Prior To Hauling Off .....	7.62	
For Up To 500, Add	2.29	
For >500 To 1,000, Add	1.52	
For >1,000 To 2,000, Add	0.76	
<b>02 41 16 13-0021 Foundation Demolition (02 41 16 13)</b>		
Note: Excludes earthwork.		
<b>02 41 16 13-0022 Concrete Foundation Demolition (02 41 16 13-0021)</b>		
02 41 16 13-0023 CF Non Reinforced Concrete Foundation Demolition.....	11.49	
02 41 16 13-0024 SF 4" Thick Non Reinforced Concrete Foundation Wall Demolition .....	4.93	
02 41 16 13-0025 SF 6" Thick Non Reinforced Concrete Foundation Wall Demolition .....	6.57	
02 41 16 13-0026 SF 8" Thick Non Reinforced Concrete Foundation Wall Demolition .....	8.21	
02 41 16 13-0027 SF 10" Thick Non Reinforced Concrete Foundation Wall Demolition.....	9.85	
02 41 16 13-0028 SF 12" Thick Non Reinforced Concrete Foundation Wall Demolition.....	11.49	
02 41 16 13-0029 SF 16" Thick Non Reinforced Concrete Foundation Wall Demolition.....	13.14	
02 41 16 13-0030 CF Reinforced Concrete Foundation Demolition .....	13.80	
02 41 16 13-0031 SF 4" Thick Reinforced Concrete Foundation Wall Demolition .....	5.91	
02 41 16 13-0032 SF 6" Thick Reinforced Concrete Foundation Wall Demolition .....	7.89	
02 41 16 13-0033 SF 8" Thick Reinforced Concrete Foundation Wall Demolition .....	9.85	
02 41 16 13-0034 SF 10" Thick Reinforced Concrete Foundation Wall Demolition .....	11.66	
02 41 16 13-0035 SF 12" Thick Reinforced Concrete Foundation Wall Demolition .....	13.80	
02 41 16 13-0036 SF 16" Thick Reinforced Concrete Foundation Wall Demolition .....	15.76	
<b>02 41 16 13-0037 Concrete Block Foundation Wall Demolition (02 41 16 13-0021)</b>		
02 41 16 13-0038 SF 4" Thick Non Reinforced Concrete Block Foundation Wall Demolition .....	3.62	
02 41 16 13-0039 SF 6" Thick Non Reinforced Concrete Block Foundation Wall Demolition .....	3.86	
02 41 16 13-0040 SF 8" Thick Non Reinforced Concrete Block Foundation Wall Demolition .....	4.36	
02 41 16 13-0041 SF 10" Thick Non Reinforced Concrete Block Foundation Wall Demolition .....	5.01	
02 41 16 13-0042 SF 12" Thick Non Reinforced Concrete Block Foundation Wall Demolition .....	5.58	
02 41 16 13-0043 SF 16" Thick Non Reinforced Concrete Block Foundation Wall Demolition .....	6.98	
02 41 16 13-0044 SF 4" Thick Reinforced Concrete Block Foundation Wall Demolition.....	4.33	
02 41 16 13-0045 SF 6" Thick Reinforced Concrete Block Foundation Wall Demolition.....	4.63	
02 41 16 13-0046 SF 8" Thick Reinforced Concrete Block Foundation Wall Demolition.....	5.22	
02 41 16 13-0047 SF 10" Thick Reinforced Concrete Block Foundation Wall Demolition.....	6.01	
02 41 16 13-0048 SF 12" Thick Reinforced Concrete Block Foundation Wall Demolition.....	6.70	
02 41 16 13-0049 SF 16" Thick Reinforced Concrete Block Foundation Wall Demolition.....	8.37	
<b>02 41 16 13-0050 Brick Foundation Wall Demolition (02 41 16 13-0021)</b>		
02 41 16 13-0051 SF 4" Thick Brick Foundation Wall Demolition .....	3.62	
02 41 16 13-0052 SF 6" Thick Brick Foundation Wall Demolition .....	3.86	
02 41 16 13-0053 SF 8" Thick Brick Foundation Wall Demolition .....	4.36	

**02 Existing Conditions****02 40 Demolition And Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 16 13-0054 SF 10" Thick Brick Foundation Wall Demolition .....		5.01
02 41 16 13-0055 SF 12" Thick Brick Foundation Wall Demolition .....		5.58
02 41 16 13-0056 SF 16" Thick Brick Foundation Wall Demolition .....		6.98
<b>02 41 16 13-0057 Stone Foundation Demolition (02 41 16 13-0021)</b>		
02 41 16 13-0058 CF Stone Footing Or Foundation Wall Demolition .....		11.49
<b>02 41 16 13-0059 Other Foundation Demolition (02 41 16 13-0021)</b>		
02 41 16 13-0060 CF Concrete Footing For Fence, Gate Or Playground Equipment Post, Etc. Demolition .....		11.87
Note: Includes excavation.		
<b>02 41 19 Selective Demolition (02 41)</b>		
<b>02 41 19 13 Selective Building Demolition (02 41 19)</b>		
<b>02 41 19 13-0001 Saw Cutting (02 41 19 13)</b>		
Note: Includes blade wear, water, taping off area, layout, clean-up and mist spray with wet vacuuming for dust control where necessary. For projects where the total saw cutting charge is less than the minimum charge, use task "Saw Cut Minimum Charge" exclusively. Task "Saw Cut Minimum Charge" should not be used in conjunction with any other tasks in this section.		
02 41 19 13-0002 LF Saw Cut Bituminous Paving Up To 4" Depth .....		1.91
For Each Additional Pass (Depth To 3"), Add	0.71	
For >250, Deduct	-0.17	
02 41 19 13-0003 LF Saw Cut Brick Masonry Up To 4" Depth .....		6.66
For Each Additional Pass (Depth To 3"), Add	2.60	
For >250, Deduct	-0.65	
02 41 19 13-0004 LF Saw Cut Concrete Block Up To 4" Depth .....		6.06
For Each Additional Pass (Depth To 3"), Add	2.36	
For >250, Deduct	-0.58	
02 41 19 13-0005 LF Saw Cut Non Reinforced Concrete Slab Or Paving Up To 4" Depth .....		2.23
For Each Additional Pass (Depth To 3"), Add	0.82	
For >250, Deduct	-0.20	
02 41 19 13-0006 LF Saw Cut Welded Wire Reinforced Concrete Slab Up To 4" Depth .....		2.91
For Each Additional Pass (Depth To 3"), Add	1.08	
For >250, Deduct	-0.26	
02 41 19 13-0007 LF Saw Cut Rod Reinforced Concrete Slab Up To 4" Depth .....		4.63
For Each Additional Pass (Depth To 3"), Add	1.76	
For >250, Deduct	-0.43	
02 41 19 13-0008 LF Saw Cut Plain Concrete Walls Up To 4" Depth .....		8.48
For Each Additional Pass (Depth To 3"), Add	3.32	
For >250, Deduct	-0.82	
02 41 19 13-0009 LF Saw Cut Rod Reinforced Concrete Walls Up To 4" Depth .....		11.39
For Each Additional Pass (Depth To 3"), Add	4.46	
For >250, Deduct	-1.11	
02 41 19 13-0010 LF Saw Cut In Streets, Concrete And Asphalt Up To 4" Depth .....		2.08
For Each Additional Pass (Depth To 3"), Add	0.77	
For >250, Deduct	-0.19	
02 41 19 13-0011 LF Saw Cut Igneous Stone Pavements Up To 4" Depth .....		6.10
For Each Additional Pass (Depth To 3"), Add	2.37	
For >250, Deduct	-0.59	
02 41 19 13-0012 LF Saw Cut Sedimentary Stone Pavements Up To 4" Depth .....		6.10
For Each Additional Pass (Depth To 3"), Add	2.37	
For >250, Deduct	-0.59	
02 41 19 13-0013 LF Saw Cut Metamorphic Stone Pavements Up To 4" Depth .....		6.10
For Each Additional Pass (Depth To 3"), Add	2.37	
For >250, Deduct	-0.59	
02 41 19 13-0014 LF Saw Cut Terrazzo Stone Pavements Up To 4" Depth .....		6.10
For Each Additional Pass (Depth To 3"), Add	2.37	
For >250, Deduct	-0.59	
02 41 19 13-0015 EA Saw Cut Minimum Charge .....		737.21
Note: For projects where the total saw cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
<b>02 41 19 13-0016 Torch Cutting (02 41 19 13)</b>		
Note: Includes grinding edge		
02 41 19 13-0017 LF Up To 1/2", Torch Cut Steel Plate .....		2.32
02 41 19 13-0018 LF >1/2" To 1" Thick, Torch Cut Steel Plate .....		4.64
02 41 19 13-0019 LF >1" To 1-1/2" Thick, Torch Cut Steel Plate .....		6.95
02 41 19 13-0020 LF >1-1/2" To 2" Thick, Torch Cut Steel Plate .....		9.27
02 41 19 13-0021 LF >2" To 2-1/2" Thick, Torch Cut Steel Plate .....		11.59
02 41 19 13-0022 LF >2-1/2" To 3" Thick, Torch Cut Steel Plate .....		13.91
02 41 19 13-0023 EA Torch Cutting Minimum Charge .....		700.78
Note: For projects where the total torch cutting charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
<b>02 41 19 13-0024 Drilling (02 41 19 13)</b>		
Note: Includes drill bit wear, water, layout, set-up and clean-up.		
<b>02 41 19 13-0025 Concrete Core Drilling (02 41 19 13-0024)</b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>02 41 19 13-0026 Up To 4" Thick Concrete Core Drilling</b> (02 41 19 13-0025)		
02 41 19 13-0027 EA Drill 1" Diameter Core In Up To 4" Concrete.....	34.80	
For Horizontal Cores, Add	6.20	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	12.40	
02 41 19 13-0028 EA Drill 1-1/2" Diameter Core In Up To 4" Concrete.....	38.23	
For Horizontal Cores, Add	6.89	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	13.78	
02 41 19 13-0029 EA Drill 2" Diameter Core In Up To 4" Concrete.....	42.06	
For Horizontal Cores, Add	7.65	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.31	
02 41 19 13-0030 EA Drill 3" Diameter Core In Up To 4" Concrete.....	59.76	
For Horizontal Cores, Add	10.94	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.87	
02 41 19 13-0031 EA Drill 4" Diameter Core In Up To 4" Concrete.....	80.12	
For Horizontal Cores, Add	14.65	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.31	
02 41 19 13-0032 EA Drill 6" Diameter Core In Up To 4" Concrete.....	90.64	
For Horizontal Cores, Add	16.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.80	
02 41 19 13-0033 EA Drill 8" Diameter Core In Up To 4" Concrete.....	143.04	
For Horizontal Cores, Add	26.24	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	52.49	
02 41 19 13-0034 EA Drill 10" Diameter Core In Up To 4" Concrete.....	180.17	
For Horizontal Cores, Add	32.81	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	65.61	
02 41 19 13-0035 EA Drill 12" Diameter Core In Up To 4" Concrete.....	210.71	
For Horizontal Cores, Add	38.28	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	76.55	
02 41 19 13-0036 EA Drill 14" Diameter Core In Up To 4" Concrete.....	241.70	
For Horizontal Cores, Add	43.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.48	
02 41 19 13-0037 EA Drill 18" Diameter Core In Up To 4" Concrete.....	275.57	
For Horizontal Cores, Add	49.20	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	98.40	
<b>02 41 19 13-0038 &gt;4" To 6" Thick Concrete Core Drilling</b> (02 41 19 13-0025)		
02 41 19 13-0039 EA Drill 1" Diameter Core In >4" To 6" Concrete.....	50.08	
For Horizontal Cores, Add	8.86	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.71	
02 41 19 13-0040 EA Drill 1-1/2" Diameter Core In >4" To 6" Concrete.....	54.99	
For Horizontal Cores, Add	9.84	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	19.68	
02 41 19 13-0041 EA Drill 2" Diameter Core In >4" To 6" Concrete.....	60.47	
For Horizontal Cores, Add	10.93	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.87	
02 41 19 13-0042 EA Drill 3" Diameter Core In >4" To 6" Concrete.....	73.57	
For Horizontal Cores, Add	13.12	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.24	
02 41 19 13-0043 EA Drill 4" Diameter Core In >4" To 6" Concrete.....	92.54	
For Horizontal Cores, Add	16.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.80	
02 41 19 13-0044 EA Drill 6" Diameter Core In >4" To 6" Concrete.....	122.45	
For Horizontal Cores, Add	21.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	43.74	
02 41 19 13-0045 EA Drill 8" Diameter Core In >4" To 6" Concrete.....	181.92	
For Horizontal Cores, Add	32.81	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	65.61	
02 41 19 13-0046 EA Drill 10" Diameter Core In >4" To 6" Concrete.....	215.51	
For Horizontal Cores, Add	38.28	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	76.55	
02 41 19 13-0047 EA Drill 12" Diameter Core In >4" To 6" Concrete.....	247.61	
For Horizontal Cores, Add	43.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.48	
02 41 19 13-0048 EA Drill 14" Diameter Core In >4" To 6" Concrete.....	281.16	
For Horizontal Cores, Add	49.20	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	98.40	
02 41 19 13-0049 EA Drill 18" Diameter Core In >4" To 6" Concrete.....	318.90	
For Horizontal Cores, Add	54.67	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	109.35	
<b>02 41 19 13-0050 &gt;6" To 8" Thick Concrete Core Drilling</b> (02 41 19 13-0025)		
02 41 19 13-0051 EA Drill 1" Diameter Core In >6" To 8" Concrete.....	56.59	
For Horizontal Cores, Add	9.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	19.48	
02 41 19 13-0052 EA Drill 1-1/2" Diameter Core In >6" To 8" Concrete.....	62.01	
For Horizontal Cores, Add	10.83	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.65	
02 41 19 13-0053 EA Drill 2" Diameter Core In >6" To 8" Concrete.....	68.02	
For Horizontal Cores, Add	12.03	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.06	

<b>02</b>	<b>Existing Conditions</b>
<b>02 40</b>	<b>Demolition And Structure Moving</b>
<b>02 41</b>	<b>Demolition</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0054 EA Drill 3" Diameter Core In >6" To 8" Concrete .....	81.91	
For Horizontal Cores, Add	14.22	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.43	
02 41 19 13-0055 EA Drill 4" Diameter Core In >6" To 8" Concrete .....	107.14	
For Horizontal Cores, Add	18.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	37.18	
02 41 19 13-0056 EA Drill 6" Diameter Core In >6" To 8" Concrete .....	148.79	
For Horizontal Cores, Add	26.24	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	52.49	
02 41 19 13-0057 EA Drill 8" Diameter Core In >6" To 8" Concrete .....	242.66	
For Horizontal Cores, Add	43.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.48	
02 41 19 13-0058 EA Drill 10" Diameter Core In >6" To 8" Concrete .....	278.12	
For Horizontal Cores, Add	49.20	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	98.40	
02 41 19 13-0059 EA Drill 12" Diameter Core In >6" To 8" Concrete .....	311.87	
For Horizontal Cores, Add	54.67	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	109.35	
02 41 19 13-0060 EA Drill 14" Diameter Core In >6" To 8" Concrete .....	347.94	
For Horizontal Cores, Add	60.13	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	120.26	
02 41 19 13-0061 EA Drill 18" Diameter Core In >6" To 8" Concrete .....	389.56	
For Horizontal Cores, Add	65.61	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	131.22	
<b>02 41 19 13-0062 &gt;8" To 10" Thick Concrete Core Drilling (02 41 19 13-0025)</b>		
02 41 19 13-0063 EA Drill 1" Diameter Core In >8" To 10" Concrete .....	67.52	
For Horizontal Cores, Add	11.51	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	23.03	
02 41 19 13-0064 EA Drill 1-1/2" Diameter Core In >8" To 10" Concrete .....	73.92	
For Horizontal Cores, Add	12.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	25.59	
02 41 19 13-0065 EA Drill 2" Diameter Core In >8" To 10" Concrete .....	81.03	
For Horizontal Cores, Add	14.22	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	28.43	
02 41 19 13-0066 EA Drill 3" Diameter Core In >8" To 10" Concrete .....	95.72	
For Horizontal Cores, Add	16.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.80	
02 41 19 13-0067 EA Drill 4" Diameter Core In >8" To 10" Concrete .....	110.82	
For Horizontal Cores, Add	18.59	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	37.18	
02 41 19 13-0068 EA Drill 6" Diameter Core In >8" To 10" Concrete .....	153.27	
For Horizontal Cores, Add	26.24	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	52.49	
02 41 19 13-0069 EA Drill 8" Diameter Core In >8" To 10" Concrete .....	248.73	
For Horizontal Cores, Add	43.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.48	
02 41 19 13-0070 EA Drill 10" Diameter Core In >8" To 10" Concrete .....	286.11	
For Horizontal Cores, Add	49.20	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	98.40	
02 41 19 13-0071 EA Drill 12" Diameter Core In >8" To 10" Concrete .....	321.41	
For Horizontal Cores, Add	54.66	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	109.33	
02 41 19 13-0072 EA Drill 14" Diameter Core In >8" To 10" Concrete .....	360.08	
For Horizontal Cores, Add	60.13	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	120.26	
02 41 19 13-0073 EA Drill 18" Diameter Core In >8" To 10" Concrete .....	405.47	
For Horizontal Cores, Add	65.60	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	131.19	
<b>02 41 19 13-0074 &gt;10" To 12" Thick Concrete Core Drilling (02 41 19 13-0025)</b>		
02 41 19 13-0075 EA Drill 1" Diameter Core In >10" To 12" Concrete .....	74.03	
For Horizontal Cores, Add	12.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	24.80	
02 41 19 13-0076 EA Drill 1-1/2" Diameter Core In >10" To 12" Concrete .....	80.92	
For Horizontal Cores, Add	13.78	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	27.56	
02 41 19 13-0077 EA Drill 2" Diameter Core In >10" To 12" Concrete .....	88.58	
For Horizontal Cores, Add	15.31	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	30.62	
02 41 19 13-0078 EA Drill 3" Diameter Core In >10" To 12" Concrete .....	98.59	
For Horizontal Cores, Add	16.40	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	32.80	
02 41 19 13-0079 EA Drill 4" Diameter Core In >10" To 12" Concrete .....	130.90	
For Horizontal Cores, Add	21.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	43.74	
02 41 19 13-0080 EA Drill 6" Diameter Core In >10" To 12" Concrete .....	168.69	
For Horizontal Cores, Add	28.43	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	56.87	
02 41 19 13-0081 EA Drill 8" Diameter Core In >10" To 12" Concrete .....	265.75	
For Horizontal Cores, Add	45.93	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	91.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0082 EA Drill 10" Diameter Core In >10" To 12" Concrete.....	294.10	
<i>For Horizontal Cores, Add</i>	49.20	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	98.40	
02 41 19 13-0083 EA Drill 12" Diameter Core In >10" To 12" Concrete.....	342.01	
<i>For Horizontal Cores, Add</i>	56.87	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	113.73	
<b>02 41 19 13-0084 &gt;12" Thick Concrete Core Drilling (02 41 19 13-0025)</b>		
02 41 19 13-0085 IN Drill 1" Diameter Core In >12" Concrete .....	8.58	
<i>For Horizontal Cores, Add</i>	1.52	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.03	
02 41 19 13-0086 IN Drill 1-1/2" Diameter Core In >12" Concrete .....	9.42	
<i>For Horizontal Cores, Add</i>	1.68	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.37	
02 41 19 13-0087 IN Drill 2" Diameter Core In >12" Concrete .....	10.35	
<i>For Horizontal Cores, Add</i>	1.87	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.74	
02 41 19 13-0088 IN Drill 3" Diameter Core In >12" Concrete .....	11.63	
<i>For Horizontal Cores, Add</i>	2.05	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.10	
02 41 19 13-0089 IN Drill 4" Diameter Core In >12" Concrete .....	15.47	
<i>For Horizontal Cores, Add</i>	2.73	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	5.47	
02 41 19 13-0090 IN Drill 6" Diameter Core In >12" Concrete .....	19.99	
<i>For Horizontal Cores, Add</i>	3.56	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	7.11	
02 41 19 13-0091 IN Drill 8" Diameter Core In >12" Concrete .....	31.74	
<i>For Horizontal Cores, Add</i>	5.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	11.49	
02 41 19 13-0092 IN Drill 10" Diameter Core In >12" Concrete .....	34.90	
<i>For Horizontal Cores, Add</i>	6.18	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	12.36	
02 41 19 13-0093 IN Drill 12" Diameter Core In >12" Concrete .....	40.37	
<i>For Horizontal Cores, Add</i>	7.11	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.22	
<b>02 41 19 13-0094 Brick/Concrete Block Core Drilling (02 41 19 13-0024)</b>		
<b>02 41 19 13-0095 Up To 4" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)</b>		
02 41 19 13-0096 EA Drill 1" Diameter Core In Up To 4" Brick/Concrete Block.....	28.60	
<i>For Horizontal Cores, Add</i>	4.96	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	9.92	
02 41 19 13-0097 EA Drill 1-1/2" Diameter Core In Up To 4" Brick/Concrete Block.....	31.34	
<i>For Horizontal Cores, Add</i>	5.51	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	11.02	
02 41 19 13-0098 EA Drill 2" Diameter Core In Up To 4" Brick/Concrete Block.....	34.41	
<i>For Horizontal Cores, Add</i>	6.12	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	12.25	
02 41 19 13-0099 EA Drill 3" Diameter Core In Up To 4" Brick/Concrete Block.....	48.82	
<i>For Horizontal Cores, Add</i>	8.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	17.50	
02 41 19 13-0100 EA Drill 4" Diameter Core In Up To 4" Brick/Concrete Block.....	65.46	
<i>For Horizontal Cores, Add</i>	11.72	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	23.44	
02 41 19 13-0101 EA Drill 6" Diameter Core In Up To 4" Brick/Concrete Block.....	74.24	
<i>For Horizontal Cores, Add</i>	13.12	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	26.24	
02 41 19 13-0102 EA Drill 8" Diameter Core In Up To 4" Brick/Concrete Block.....	116.81	
<i>For Horizontal Cores, Add</i>	21.00	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	42.00	
02 41 19 13-0103 EA Drill 10" Diameter Core In Up To 4" Brick/Concrete Block.....	147.36	
<i>For Horizontal Cores, Add</i>	26.24	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	52.49	
02 41 19 13-0104 EA Drill 12" Diameter Core In Up To 4" Brick/Concrete Block.....	172.44	
<i>For Horizontal Cores, Add</i>	30.62	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	61.24	
02 41 19 13-0105 EA Drill 14" Diameter Core In Up To 4" Brick/Concrete Block.....	197.95	
<i>For Horizontal Cores, Add</i>	34.99	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	69.98	
02 41 19 13-0106 EA Drill 18" Diameter Core In Up To 4" Brick/Concrete Block.....	226.37	
<i>For Horizontal Cores, Add</i>	39.36	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	78.72	
<b>02 41 19 13-0107 &gt;4" To 6" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)</b>		
02 41 19 13-0108 EA Drill 1" Diameter Core In >4" To 6" Brick/Concrete Block.....	41.22	
<i>For Horizontal Cores, Add</i>	7.08	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	14.17	
02 41 19 13-0109 EA Drill 1-1/2" Diameter Core In >4" To 6" Brick/Concrete Block.....	45.16	
<i>For Horizontal Cores, Add</i>	7.87	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	15.74	

**02 Existing Conditions****02 40 Demolition And Structure Moving****02 41 Demolition**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0110 EA Drill 2" Diameter Core In >4" To 6" Brick/Concrete Block .....	49.53	
For Horizontal Cores, Add	8.75	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.49	
02 41 19 13-0111 EA Drill 3" Diameter Core In >4" To 6" Brick/Concrete Block .....	60.45	
For Horizontal Cores, Add	10.50	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	21.00	
02 41 19 13-0112 EA Drill 4" Diameter Core In >4" To 6" Brick/Concrete Block .....	76.14	
For Horizontal Cores, Add	13.12	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.24	
02 41 19 13-0113 EA Drill 6" Diameter Core In >4" To 6" Brick/Concrete Block .....	100.58	
For Horizontal Cores, Add	17.50	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	34.99	
02 41 19 13-0114 EA Drill 8" Diameter Core In >4" To 6" Brick/Concrete Block .....	149.11	
For Horizontal Cores, Add	26.24	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	52.49	
02 41 19 13-0115 EA Drill 10" Diameter Core In >4" To 6" Brick/Concrete Block .....	177.24	
For Horizontal Cores, Add	30.62	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	61.24	
02 41 19 13-0116 EA Drill 12" Diameter Core In >4" To 6" Brick/Concrete Block .....	203.86	
For Horizontal Cores, Add	34.99	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	69.98	
02 41 19 13-0117 EA Drill 14" Diameter Core In >4" To 6" Brick/Concrete Block .....	231.96	
For Horizontal Cores, Add	39.36	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.72	
02 41 19 13-0118 EA Drill 18" Diameter Core In >4" To 6" Brick/Concrete Block .....	264.23	
For Horizontal Cores, Add	43.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.48	
<b>02 41 19 13-0119 &gt;6" To 8" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)</b>		
02 41 19 13-0120 EA Drill 1" Diameter Core In >6" To 8" Brick/Concrete Block .....	46.85	
For Horizontal Cores, Add	7.79	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	15.59	
02 41 19 13-0121 EA Drill 1-1/2" Diameter Core In >6" To 8" Brick/Concrete Block .....	51.18	
For Horizontal Cores, Add	8.66	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	17.32	
02 41 19 13-0122 EA Drill 2" Diameter Core In >6" To 8" Brick/Concrete Block .....	56.00	
For Horizontal Cores, Add	9.62	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	19.25	
02 41 19 13-0123 EA Drill 3" Diameter Core In >6" To 8" Brick/Concrete Block .....	67.70	
For Horizontal Cores, Add	11.37	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.75	
02 41 19 13-0124 EA Drill 4" Diameter Core In >6" To 8" Brick/Concrete Block .....	88.55	
For Horizontal Cores, Add	14.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.74	
02 41 19 13-0125 EA Drill 6" Diameter Core In >6" To 8" Brick/Concrete Block .....	122.56	
For Horizontal Cores, Add	21.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	42.00	
02 41 19 13-0126 EA Drill 8" Diameter Core In >6" To 8" Brick/Concrete Block .....	198.91	
For Horizontal Cores, Add	34.99	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	69.98	
02 41 19 13-0127 EA Drill 10" Diameter Core In >6" To 8" Brick/Concrete Block .....	228.92	
For Horizontal Cores, Add	39.36	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	78.72	
02 41 19 13-0128 EA Drill 12" Diameter Core In >6" To 8" Brick/Concrete Block .....	257.20	
For Horizontal Cores, Add	43.74	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	87.48	
02 41 19 13-0129 EA Drill 14" Diameter Core In >6" To 8" Brick/Concrete Block .....	287.81	
For Horizontal Cores, Add	48.10	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	96.21	
02 41 19 13-0130 EA Drill 18" Diameter Core In >6" To 8" Brick/Concrete Block .....	323.95	
For Horizontal Cores, Add	52.49	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	104.98	
<b>02 41 19 13-0131 &gt;8" To 10" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)</b>		
02 41 19 13-0132 EA Drill 1" Diameter Core In >8" To 10" Brick/Concrete Block .....	56.00	
For Horizontal Cores, Add	9.21	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	18.42	
02 41 19 13-0133 EA Drill 1-1/2" Diameter Core In >8" To 10" Brick/Concrete Block .....	61.13	
For Horizontal Cores, Add	10.24	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	20.47	
02 41 19 13-0134 EA Drill 2" Diameter Core In >8" To 10" Brick/Concrete Block .....	66.81	
For Horizontal Cores, Add	11.37	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	22.74	
02 41 19 13-0135 EA Drill 3" Diameter Core In >8" To 10" Brick/Concrete Block .....	79.32	
For Horizontal Cores, Add	13.12	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	26.24	
02 41 19 13-0136 EA Drill 4" Diameter Core In >8" To 10" Brick/Concrete Block .....	92.23	
For Horizontal Cores, Add	14.87	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	29.74	
02 41 19 13-0137 EA Drill 6" Diameter Core In >8" To 10" Brick/Concrete Block .....	127.04	
For Horizontal Cores, Add	21.00	
For Overhead Ceiling Cores (Where Not Accessible From Above), Add	42.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0138 EA Drill 8" Diameter Core In >8" To 10" Brick/Concrete Block .....	204.98	
<i>For Horizontal Cores, Add</i>	34.99	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	69.98	
02 41 19 13-0139 EA Drill 10" Diameter Core In >8" To 10" Brick/Concrete Block .....	236.91	
<i>For Horizontal Cores, Add</i>	39.36	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	78.72	
02 41 19 13-0140 EA Drill 12" Diameter Core In >8" To 10" Brick/Concrete Block .....	266.74	
<i>For Horizontal Cores, Add</i>	43.73	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	87.46	
02 41 19 13-0141 EA Drill 14" Diameter Core In >8" To 10" Brick/Concrete Block .....	299.95	
<i>For Horizontal Cores, Add</i>	48.10	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	96.21	
02 41 19 13-0142 EA Drill 18" Diameter Core In >8" To 10" Brick/Concrete Block .....	339.87	
<i>For Horizontal Cores, Add</i>	52.48	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	104.95	
<b>02 41 19 13-0143 &gt;10" To 12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)</b>		
02 41 19 13-0144 EA Drill 1" Diameter Core In >10" To 12" Brick/Concrete Block .....	61.64	
<i>For Horizontal Cores, Add</i>	9.92	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	19.84	
02 41 19 13-0145 EA Drill 1-1/2" Diameter Core In >10" To 12" Brick/Concrete Block .....	67.15	
<i>For Horizontal Cores, Add</i>	11.02	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	22.05	
02 41 19 13-0146 EA Drill 2" Diameter Core In >10" To 12" Brick/Concrete Block .....	73.27	
<i>For Horizontal Cores, Add</i>	12.25	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	24.50	
02 41 19 13-0147 EA Drill 3" Diameter Core In >10" To 12" Brick/Concrete Block .....	82.19	
<i>For Horizontal Cores, Add</i>	13.12	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	26.24	
02 41 19 13-0148 EA Drill 4" Diameter Core In >10" To 12" Brick/Concrete Block .....	109.03	
<i>For Horizontal Cores, Add</i>	17.50	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	34.99	
02 41 19 13-0149 EA Drill 6" Diameter Core In >10" To 12" Brick/Concrete Block .....	140.26	
<i>For Horizontal Cores, Add</i>	22.75	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	45.50	
02 41 19 13-0150 EA Drill 8" Diameter Core In >10" To 12" Brick/Concrete Block .....	219.81	
<i>For Horizontal Cores, Add</i>	36.74	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	73.48	
02 41 19 13-0151 EA Drill 10" Diameter Core In >10" To 12" Brick/Concrete Block .....	244.90	
<i>For Horizontal Cores, Add</i>	39.36	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	78.72	
02 41 19 13-0152 EA Drill 12" Diameter Core In >10" To 12" Brick/Concrete Block .....	285.14	
<i>For Horizontal Cores, Add</i>	45.49	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	90.98	
<b>02 41 19 13-0153 &gt;12" Thick Brick/Concrete Block Core Drilling (02 41 19 13-0094)</b>		
02 41 19 13-0154 IN Drill 1" Diameter Core In >12" Brick/Concrete Block .....	7.07	
<i>For Horizontal Cores, Add</i>	1.21	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	2.43	
02 41 19 13-0155 IN Drill 1-1/2" Diameter Core In >12" Brick/Concrete Block .....	7.74	
<i>For Horizontal Cores, Add</i>	1.35	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	2.70	
02 41 19 13-0156 IN Drill 2" Diameter Core In >12" Brick/Concrete Block .....	8.49	
<i>For Horizontal Cores, Add</i>	1.50	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.00	
02 41 19 13-0157 IN Drill 3" Diameter Core In >12" Brick/Concrete Block .....	9.57	
<i>For Horizontal Cores, Add</i>	1.64	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	3.28	
02 41 19 13-0158 IN Drill 4" Diameter Core In >12" Brick/Concrete Block .....	12.74	
<i>For Horizontal Cores, Add</i>	2.19	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	4.38	
02 41 19 13-0159 IN Drill 6" Diameter Core In >12" Brick/Concrete Block .....	16.43	
<i>For Horizontal Cores, Add</i>	2.84	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	5.69	
02 41 19 13-0160 IN Drill 8" Diameter Core In >12" Brick/Concrete Block .....	25.99	
<i>For Horizontal Cores, Add</i>	4.60	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	9.19	
02 41 19 13-0161 IN Drill 10" Diameter Core In >12" Brick/Concrete Block .....	28.71	
<i>For Horizontal Cores, Add</i>	4.94	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	9.88	
02 41 19 13-0162 IN Drill 12" Diameter Core In >12" Brick/Concrete Block .....	33.26	
<i>For Horizontal Cores, Add</i>	5.69	
<i>For Overhead Ceiling Cores (Where Not Accessible From Above), Add</i>	11.38	
<b>02 41 19 13-0163 Asphalt Core Drilling (02 41 19 13-0024)</b>		
<b>02 41 19 13-0164 Up To 2" Thick Asphalt Core Drilling (02 41 19 13-0163)</b>		
02 41 19 13-0165 EA Drill 1" Diameter Core In Up To 2" Asphalt .....	15.69	
02 41 19 13-0166 EA Drill 1-1/2" Diameter Core In Up To 2" Asphalt .....	19.68	
02 41 19 13-0167 EA Drill 2" Diameter Core In Up To 2" Asphalt .....	24.60	
02 41 19 13-0168 EA Drill 3" Diameter Core In Up To 2" Asphalt .....	30.61	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0169	EA		Drill 4" Diameter Core In Up To 2" Asphalt.....	38.57	
02 41 19 13-0170	EA		Drill 6" Diameter Core In Up To 2" Asphalt.....	48.50	
02 41 19 13-0171	EA		Drill 8" Diameter Core In Up To 2" Asphalt.....	60.68	
02 41 19 13-0172	EA		Drill 10" Diameter Core In Up To 2" Asphalt.....	75.27	
02 41 19 13-0173	EA		Drill 12" Diameter Core In Up To 2" Asphalt.....	93.86	
<b>02 41 19 13-0174</b>			<b>&gt;2" To 3" Thick Asphalt Core Drilling (02 41 19 13-0163)</b>		
02 41 19 13-0175	EA		Drill 1" Diameter Core In >2" To 3" Asphalt.....	19.60	
02 41 19 13-0176	EA		Drill 1-1/2" Diameter Core In >2" To 3" Asphalt.....	25.46	
02 41 19 13-0177	EA		Drill 2" Diameter Core In >2" To 3" Asphalt.....	31.30	
02 41 19 13-0178	EA		Drill 3" Diameter Core In >2" To 3" Asphalt.....	39.28	
02 41 19 13-0179	EA		Drill 4" Diameter Core In >2" To 3" Asphalt.....	49.19	
02 41 19 13-0180	EA		Drill 6" Diameter Core In >2" To 3" Asphalt.....	62.00	
02 41 19 13-0181	EA		Drill 8" Diameter Core In >2" To 3" Asphalt.....	77.15	
02 41 19 13-0182	EA		Drill 10" Diameter Core In >2" To 3" Asphalt.....	96.52	
02 41 19 13-0183	EA		Drill 12" Diameter Core In >2" To 3" Asphalt.....	119.96	
<b>02 41 19 13-0184</b>			<b>&gt;3" To 4" Thick Asphalt Core Drilling (02 41 19 13-0163)</b>		
02 41 19 13-0185	EA		Drill 1" Diameter Core In >3" To 4" Asphalt.....	25.54	
02 41 19 13-0186	EA		Drill 1-1/2" Diameter Core In >3" To 4" Asphalt.....	32.49	
02 41 19 13-0187	EA		Drill 2" Diameter Core In >3" To 4" Asphalt.....	40.29	
02 41 19 13-0188	EA		Drill 3" Diameter Core In >3" To 4" Asphalt.....	50.29	
02 41 19 13-0189	EA		Drill 4" Diameter Core In >3" To 4" Asphalt.....	63.33	
02 41 19 13-0190	EA		Drill 6" Diameter Core In >3" To 4" Asphalt.....	79.17	
02 41 19 13-0191	EA		Drill 8" Diameter Core In >3" To 4" Asphalt.....	99.49	
02 41 19 13-0192	EA		Drill 10" Diameter Core In >3" To 4" Asphalt.....	123.82	
02 41 19 13-0193	EA		Drill 12" Diameter Core In >3" To 4" Asphalt.....	154.19	
<b>02 41 19 13-0194</b>			<b>&gt;4" To 6" Thick Asphalt Core Drilling (02 41 19 13-0163)</b>		
02 41 19 13-0195	EA		Drill 1" Diameter Core In >4" To 6" Asphalt.....	33.64	
02 41 19 13-0196	EA		Drill 1-1/2" Diameter Core In >4" To 6" Asphalt.....	41.71	
02 41 19 13-0197	EA		Drill 2" Diameter Core In >4" To 6" Asphalt.....	51.54	
02 41 19 13-0198	EA		Drill 3" Diameter Core In >4" To 6" Asphalt.....	65.75	
02 41 19 13-0199	EA		Drill 4" Diameter Core In >4" To 6" Asphalt.....	82.01	
02 41 19 13-0200	EA		Drill 6" Diameter Core In >4" To 6" Asphalt.....	102.00	
02 41 19 13-0201	EA		Drill 8" Diameter Core In >4" To 6" Asphalt.....	128.74	
02 41 19 13-0202	EA		Drill 10" Diameter Core In >4" To 6" Asphalt.....	160.03	
02 41 19 13-0203	EA		Drill 12" Diameter Core In >4" To 6" Asphalt.....	199.58	
<b>02 41 19 13-0204</b>			<b>Manhole Core Drilling (02 41 19 13-0024)</b>		
02 41 19 13-0205	EA		Drill 4" Diameter Core In 6" Brick Manhole.....	171.14	
02 41 19 13-0206	EA		Drill 5" Diameter Core In 6" Brick Manhole.....	195.45	
02 41 19 13-0207	EA		Drill 6" Diameter Core In 6" Brick Manhole.....	227.48	
02 41 19 13-0208	EA		Drill 8" Diameter Core In 6" Brick Manhole.....	340.03	
02 41 19 13-0209	EA		Drill 2" Diameter Core In 8" Concrete Manhole.....	227.80	
02 41 19 13-0210	EA		Drill 3" Diameter Core In 8" Concrete Manhole.....	244.79	
02 41 19 13-0211	EA		Drill 4" Diameter Core In 8" Concrete Manhole.....	271.56	
02 41 19 13-0212	EA		Drill 5" Diameter Core In 8" Concrete Manhole.....	291.97	
02 41 19 13-0213	EA		Drill 6" Diameter Core In 8" Concrete Manhole.....	345.11	
02 41 19 13-0214	EA		Drill 8" Diameter Core In 8" Concrete Manhole.....	491.88	
02 41 19 13-0215	EA		Drill 2" Diameter Core In Fiberglass Manhole.....	22.06	
02 41 19 13-0216	EA		Drill 3" Diameter Core In Fiberglass Manhole.....	25.51	
02 41 19 13-0217	EA		Drill 4" Diameter Core In Fiberglass Manhole.....	27.72	
02 41 19 13-0218	EA		Drill 5" Diameter Core In Fiberglass Manhole.....	30.23	
02 41 19 13-0219	EA		Drill 6" Diameter Core In Fiberglass Manhole.....	33.28	
02 41 19 13-0220	EA		Drill 8" Diameter Core In Fiberglass Manhole.....	37.01	
<b>02 41 19 13-0221</b>			<b>Drilling In Concrete Per Inch Of Depth (02 41 19 13-0024)</b>		
			Note: Includes layout.		
02 41 19 13-0222	IN		1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	1.84	
02 41 19 13-0223	IN		3/8" Diameter Drilling In Concrete Per Inch Of Depth.....	1.93	
02 41 19 13-0224	IN		1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	2.06	
02 41 19 13-0225	IN		5/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.21	
02 41 19 13-0226	IN		3/4" Diameter Drilling In Concrete Per Inch Of Depth.....	2.41	
02 41 19 13-0227	IN		7/8" Diameter Drilling In Concrete Per Inch Of Depth.....	2.62	
02 41 19 13-0228	IN		1" Diameter Drilling In Concrete Per Inch Of Depth.....	2.76	
02 41 19 13-0229	IN		1-1/4" Diameter Drilling In Concrete Per Inch Of Depth.....	3.05	
02 41 19 13-0230	IN		1-1/2" Diameter Drilling In Concrete Per Inch Of Depth.....	3.44	
<b>02 41 19 13-0231</b>			<b>Drilling In Brick/Concrete Block Per Inch Of Depth (02 41 19 13-0024)</b>		
			Note: Includes layout.		
02 41 19 13-0232	IN		1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.54	
02 41 19 13-0233	IN		3/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.62	
02 41 19 13-0234	IN		1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth.....	1.74	





		MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0235	IN	5/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....		1.85	
02 41 19 13-0236	IN	3/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....		2.02	
02 41 19 13-0237	IN	7/8" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....		2.20	
02 41 19 13-0238	IN	1" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....		2.32	
02 41 19 13-0239	IN	1-1/4" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....		2.56	
02 41 19 13-0240	IN	1-1/2" Diameter Drilling In Brick/Concrete Block Per Inch Of Depth .....		2.89	
<b>02 41 19 13-0241</b>		<b>Drilling In Wood Or Plastic Per Inch Of Depth</b> (02 41 19 13-0024)			
		Note: Includes layout.			
02 41 19 13-0242	IN	1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....		0.75	
02 41 19 13-0243	IN	3/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....		0.79	
02 41 19 13-0244	IN	1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....		0.84	
02 41 19 13-0245	IN	5/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....		0.90	
02 41 19 13-0246	IN	3/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....		0.99	
02 41 19 13-0247	IN	7/8" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....		1.07	
02 41 19 13-0248	IN	1" Diameter Drilling In Wood Or Plastic Per Inch Of Depth.....		1.12	
02 41 19 13-0249	IN	1-1/4" Diameter Drilling In Wood Or Plastic Per Inch Of Depth .....		1.24	
02 41 19 13-0250	IN	1-1/2" Diameter Drilling In Wood Or Plastic Per Inch Of Depth .....		1.41	
<b>02 41 19 13-0251</b>		<b>Limestone Core Drilling</b> (02 41 19 13-0024)			
<b>02 41 19 13-0252</b>		<b>10" To 14" Thick Limestone Core Drilling</b> (02 41 19 13-0251)			
02 41 19 13-0253	EA	Drill 1" Diameter Core In 10" To 14" Limestone .....		51.75	
02 41 19 13-0254	EA	Drill 1-1/2" Diameter Core In 10" To 14" Limestone.....		62.62	
02 41 19 13-0255	EA	Drill 2" Diameter Core In 10" To 14" Limestone .....		68.78	
02 41 19 13-0256	EA	Drill 3" Diameter Core In 10" To 14" Limestone .....		81.16	
02 41 19 13-0257	EA	Drill 4" Diameter Core In 10" To 14" Limestone .....		93.84	
02 41 19 13-0258	EA	Drill 6" Diameter Core In 10" To 14" Limestone .....		129.94	
02 41 19 13-0259	EA	Drill 8" Diameter Core In 10" To 14" Limestone .....		211.20	
<b>02 41 19 13-0260</b>		<b>15" To 18" Thick Limestone Core Drilling</b> (02 41 19 13-0251)			
02 41 19 13-0261	EA	Drill 1" Diameter Core In 15" To 18" Limestone .....		57.46	
02 41 19 13-0262	EA	Drill 1-1/2" Diameter Core In 15" To 18" Limestone.....		68.63	
02 41 19 13-0263	EA	Drill 2" Diameter Core In 15" To 18" Limestone .....		75.14	
02 41 19 13-0264	EA	Drill 3" Diameter Core In 15" To 18" Limestone .....		83.46	
02 41 19 13-0265	EA	Drill 4" Diameter Core In 15" To 18" Limestone .....		110.82	
02 41 19 13-0266	EA	Drill 6" Diameter Core In 15" To 18" Limestone .....		142.86	
02 41 19 13-0267	EA	Drill 8" Diameter Core In 15" To 18" Limestone .....		225.49	
<b>02 41 19 13-0268</b>		<b>19" To 24" Thick Limestone Core Drilling</b> (02 41 19 13-0251)			
02 41 19 13-0269	EA	Drill 1" Diameter Core In 19" To 24" Limestone .....		63.03	
02 41 19 13-0270	EA	Drill 1-1/2" Diameter Core In 19" To 24" Limestone.....		74.49	
02 41 19 13-0271	EA	Drill 2" Diameter Core In 19" To 24" Limestone .....		81.26	
02 41 19 13-0272	EA	Drill 3" Diameter Core In 19" To 24" Limestone .....		94.80	
02 41 19 13-0273	EA	Drill 4" Diameter Core In 19" To 24" Limestone .....		132.13	
02 41 19 13-0274	EA	Drill 6" Diameter Core In 19" To 24" Limestone .....		164.77	
02 41 19 13-0275	EA	Drill 8" Diameter Core In 19" To 24" Limestone.....		243.99	
<b>02 41 19 13-0276</b>		<b>Minimum Charge For Core Drilling</b> (02 41 19 13-0024)			
02 41 19 13-0277	EA	Core Drill Minimum Charge.....		597.33	
		Note: For projects where the total core drilling charge is less than the minimum charge, use task "Minimum Charge For Core Drilling" exclusively. Task "Minimum Charge For Core Drilling" should not be used in conjunction with any other tasks in this section. Does not apply to sections "Drilling In Concrete Per Inch Of Depth" or "Drilling In Brick Or Block Per Inch Of Depth".			
<b>02 41 19 13-0278</b>		<b>Cutouts</b> (02 41 19 13)			
		Note: Includes saw cutting and removal of material. Not to be used for openings greater than 24 SF.			
<b>02 41 19 13-0279</b>		<b>Reinforced Concrete Slab On Grade Cutouts</b> (02 41 19 13-0278)			
02 41 19 13-0280	SF	4" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....		39.21	
02 41 19 13-0281	SF	6" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....		41.58	
02 41 19 13-0282	SF	8" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....		43.96	
02 41 19 13-0283	SF	10" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....		46.34	
02 41 19 13-0284	SF	12" Thick Reinforced Concrete Slab On Grade Cutouts, <24 SF .....		47.53	
<b>02 41 19 13-0285</b>		<b>Reinforced Concrete Elevated Slab Cutouts</b> (02 41 19 13-0278)			
		Note: Includes cutting and removing steel decking.			
02 41 19 13-0286	SF	4" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....		47.79	
02 41 19 13-0287	SF	6" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....		50.69	
02 41 19 13-0288	SF	8" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....		53.57	
02 41 19 13-0289	SF	10" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....		56.47	
02 41 19 13-0290	SF	12" Thick Reinforced Concrete Elevated Slab Cutouts, <24 SF .....		57.92	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>02 41 19 13-0291</b>	<b>Reinforced Concrete Wall Cutouts</b> (02 41 19 13-0278)	
02 41 19 13-0292	SF 4" Thick Reinforced Concrete Wall Cutouts, <24 SF .....	49.01
02 41 19 13-0293	SF 6" Thick Reinforced Concrete Wall Cutouts, <24 SF .....	51.99
02 41 19 13-0294	SF 8" Thick Reinforced Concrete Wall Cutouts, <24 SF .....	54.95
02 41 19 13-0295	SF 10" Thick Reinforced Concrete Wall Cutouts, <24 SF .....	57.92
02 41 19 13-0296	SF 12" Thick Reinforced Concrete Wall Cutouts, <24 SF .....	59.40
<b>02 41 19 13-0297</b>	<b>Brick Wall Cutouts</b> (02 41 19 13-0278)	
	Note: Excludes toothing.	
02 41 19 13-0298	SF 4" Thick Brick Wall Cutouts, <24 SF .....	14.86
02 41 19 13-0299	SF 6" Thick Brick Wall Cutouts, <24 SF .....	24.51
02 41 19 13-0300	SF 8" Thick Brick Wall Cutouts, <24 SF .....	34.12
02 41 19 13-0301	SF 10" Thick Brick Wall Cutouts, <24 SF .....	41.58
02 41 19 13-0302	SF 12" Thick Brick Wall Cutouts, <24 SF .....	49.75
02 41 19 13-0303	SF 16" Thick Brick Wall Cutouts, <24 SF .....	58.66
<b>02 41 19 13-0304</b>	<b>Concrete Block Wall Cutouts</b> (02 41 19 13-0278)	
	Note: Excludes toothing.	
02 41 19 13-0305	SF 4" Thick Concrete Block Wall Cutouts, <24 SF .....	24.57
02 41 19 13-0306	SF 6" Thick Concrete Block Wall Cutouts, <24 SF .....	26.02
02 41 19 13-0307	SF 8" Thick Concrete Block Wall Cutouts, <24 SF .....	27.48
02 41 19 13-0308	SF 10" Thick Concrete Block Wall Cutouts, <24 SF .....	28.96
02 41 19 13-0309	SF 12" Thick Concrete Block Wall Cutouts, <24 SF .....	29.70
02 41 19 13-0310	SF 16" Thick Concrete Block Wall Cutouts, <24 SF .....	31.19
<b>02 41 19 13-0311</b>	<b>Limestone Cutouts</b> (02 41 19 13-0278)	
02 41 19 13-0312	SF 2" Thick Limestone Cutouts, <24 SF .....	41.58
02 41 19 13-0313	SF 4" Thick Limestone Cutouts, <24 SF .....	50.49
02 41 19 13-0314	SF 6" Thick Limestone Cutouts, <24 SF .....	53.47
02 41 19 13-0315	SF 8" Thick Limestone Cutouts, <24 SF .....	56.44
02 41 19 13-0316	SF 10" Thick Limestone Cutouts, <24 SF .....	59.40
02 41 19 13-0317	SF 12" Thick Limestone Cutouts, <24 SF .....	62.38
<b>02 41 19 13-0318</b>	<b>Toothing Masonry Cutouts</b> (02 41 19 13-0278)	
	Note: For use where existing masonry must be removed in a toothing pattern along horizontal and vertical mortar joints. VLF measurement includes all horizontal cutting.	
02 41 19 13-0319	VLF Brick, Soft Old Mortar, Toothing Masonry Cutouts .....	14.86
02 41 19 13-0320	VLF Brick, Hard Mortar, Toothing Masonry Cutouts .....	20.05
02 41 19 13-0321	VLF Concrete Block, Soft Old Mortar, Toothing Masonry Cutouts .....	8.91
02 41 19 13-0322	VLF Concrete Block, Hard Mortar, Toothing Masonry Cutouts .....	11.88
<b>02 41 19 13-0323</b>	<b>Minimum Charge For Cutouts</b> (02 41 19 13-0278)	
	Note: For projects where the total cutouts charge is less than the minimum charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.	
02 41 19 13-0324	EA Cutouts Minimum Charge .....	297.04
<b>02 41 19 13-0325</b>	<b>Exterior Masonry Removal</b> (02 41 19 13)	
<b>02 41 19 13-0326</b>	<b>Masonry Columns Removal (Interior And Exterior)</b> (02 41 19 13-0325)	
02 41 19 13-0327	VLF 8" x 8" Masonry Column Removal .....	11.62
02 41 19 13-0328	VLF 10" x 10" Masonry Column Removal .....	18.15
02 41 19 13-0329	VLF 12" x 12" Masonry Column Removal .....	23.26
02 41 19 13-0330	VLF 14" x 14" Masonry Column Removal .....	29.11
02 41 19 13-0331	VLF 16" x 16" Masonry Column Removal .....	35.77
02 41 19 13-0332	CF Masonry Column Removal, Per CF Of Masonry Removed; For Other Sizes Over 16" Square .....	20.09
<b>02 41 19 13-0333</b>	<b>Masonry Chimney Removal</b> (02 41 19 13-0325)	
02 41 19 13-0334	CF Up To 3 CF/VLF Chimney Removal, Per CF Of Masonry Removed .....	23.57
02 41 19 13-0335	CF >3 To 10 CF/VLF Chimney Removal, Per CF Of Masonry Removed .....	17.69
02 41 19 13-0336	CF >10 To 20 CF/VLF Chimney Removal, Per CF Of Masonry Removed .....	13.53
02 41 19 13-0337	CF >20 CF/VLF Chimney Removal, Per CF Of Masonry Removed .....	9.38
<b>02 41 19 13-0338</b>	<b>Remove And Reset Precast, Stone Or Masonry Coping</b> (02 41 19 13-0325)	
	Note: Includes removing, cleaning, and resetting coping with new ties and mortar. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.	
02 41 19 13-0339	LF Up To 8" Wide, Remove And Reset Precast, Stone Or Masonry Coping .....	16.88
02 41 19 13-0340	LF >8" To 12" Wide, Remove And Reset Precast, Stone Or Masonry Coping .....	24.94
02 41 19 13-0341	LF >12" To 24" Wide, Remove And Reset Precast, Stone Or Masonry Coping .....	47.12



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 41 19 13-0342	<b>Facade Removal</b> (02 41 19 13-0325)	Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0343	SF Stone Or Brick Veneer Facade Removal .....		4.42	
	<i>For Cleaning and Storage For Reuse, Add</i>		3.32	
02 41 19 13-0344	<b>Exterior Masonry Removal</b> (02 41 19 13-0325)	Note: Includes any saw cutting that may be required for size reduction into manageable pieces for handling and disposal. Salvage modifier includes removing mortar, scraping, cleaning, placement on pallets and storage on site. Excludes finished edge saw cutting at the intersection between demolition and undisturbed areas. See CSI section 02 41 19 13-0001 for saw cutting.		
02 41 19 13-0345	SF Demolish 4" Thick Non Reinforced Concrete Block Exterior Wall.....		3.89	
02 41 19 13-0346	SF Demolish 6" Thick Non Reinforced Concrete Block Exterior Wall.....		4.39	
02 41 19 13-0347	SF Demolish 8" Thick Non Reinforced Concrete Block Exterior Wall.....		5.31	
02 41 19 13-0348	SF Demolish 10" Thick Non Reinforced Concrete Block Exterior Wall.....		5.80	
02 41 19 13-0349	SF Demolish 12" Thick Non Reinforced Concrete Block Exterior Wall.....		6.37	
02 41 19 13-0350	SF Demolish 16" Thick Non Reinforced Concrete Block Exterior Wall.....		7.97	
02 41 19 13-0351	SF Demolish 4" Thick Reinforced Concrete Block Exterior Wall .....		4.60	
02 41 19 13-0352	SF Demolish 6" Thick Reinforced Concrete Block Exterior Wall .....		5.27	
02 41 19 13-0353	SF Demolish 8" Thick Reinforced Concrete Block Exterior Wall .....		6.37	
02 41 19 13-0354	SF Demolish 10" Thick Reinforced Concrete Block Exterior Wall .....		6.97	
02 41 19 13-0355	SF Demolish 12" Thick Reinforced Concrete Block Exterior Wall .....		7.64	
02 41 19 13-0356	SF Demolish 16" Thick Reinforced Concrete Block Exterior Wall .....		9.56	
02 41 19 13-0357	SF Demolish 4" Thick Brick Exterior Wall.....		3.89	
	<i>For Cleaning and Storage For Reuse, Add</i>		2.92	
02 41 19 13-0358	SF Demolish 6" Thick Brick Exterior Wall.....		4.39	
	<i>For Cleaning and Storage For Reuse, Add</i>		3.29	
02 41 19 13-0359	SF Demolish 8" Thick Brick Exterior Wall.....		5.31	
	<i>For Cleaning and Storage For Reuse, Add</i>		3.98	
02 41 19 13-0360	SF Demolish 10" Thick Brick Exterior Wall.....		5.80	
	<i>For Cleaning and Storage For Reuse, Add</i>		4.35	
02 41 19 13-0361	SF Demolish 12" Thick Brick Exterior Wall.....		6.37	
	<i>For Cleaning and Storage For Reuse, Add</i>		4.78	
02 41 19 13-0362	SF Demolish 16" Thick Brick Exterior Wall.....		7.97	
	<i>For Cleaning and Storage For Reuse, Add</i>		5.98	
02 41 19 13-0363	CF Exterior Brick, Concrete Block Or Composite Removal .....		11.32	
	<i>For Cleaning and Storage For Reuse, Add</i>		8.49	
02 41 19 13-0364	<b>Exterior Concrete Wall Removal</b> (02 41 19 13)			
02 41 19 13-0365	SF Demolish 4" Thick Reinforced Concrete Exterior Wall.....		5.12	
02 41 19 13-0366	SF Demolish 6" Thick Reinforced Concrete Exterior Wall.....		9.28	
02 41 19 13-0367	SF Demolish 8" Thick Reinforced Concrete Exterior Wall.....		11.66	
02 41 19 13-0368	SF Demolish 10" Thick Reinforced Concrete Exterior Wall.....		13.75	
02 41 19 13-0369	SF Demolish 12" Thick Reinforced Concrete Exterior Wall.....		16.26	
02 41 19 13-0370	<b>Roofing Removal</b> (02 41 19 13)			
02 41 19 13-0371	<b>Clay Tile Roof Remove And Salvage For Re-use</b> (02 41 19 13-0370)	Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.		
02 41 19 13-0372	SQ Removal Of Clay Roof Tile, Salvage For Re-use.....		231.10	
02 41 19 13-0373	<b>Elevated Concrete Removal</b> (02 41 19 13)			
02 41 19 13-0374	CF Elevated Concrete Beam/Slab/Steps Removal, Reinforced .....		9.95	
02 41 19 16	<b>Selective Interior Demolition</b> (02 41 19)	Note: Includes break-up of material, loading into truck or dumpster and clean-up. Salvage tasks include placement on pallets and storage on site.		
02 41 19 16-0001	<b>Floor Removal</b> (02 41 19 16)			
02 41 19 16-0002	<b>Remove And Salvage For Re-Use</b> (02 41 19 16-0001)	Note: Includes removing mortar, scraping, cleaning, placement on pallets and storage on site.		
02 41 19 16-0003	SF Removal Of Brick Flooring And Salvage.....		2.11	
02 41 19 16-0004	SF Removal Of Ceramic/Quarry Tile Floor And Salvage .....		2.11	
02 41 19 16-0005	SF Removal Of Terrazzo Flooring And Salvage.....		2.91	
02 41 19 16-0006	SF Removal Of Wood Strip Flooring And Salvage.....		1.70	
02 41 19 16-0007	SF Removal Of Wood Parquet Flooring And Salvage.....		0.90	
02 41 19 16-0008	SF Removal Of Resilient/Linoleum Flooring And Salvage .....		0.64	
02 41 19 16-0009	<b>Scarify Concrete</b> (02 41 19 16-0001)	Note: Up to 1/4" removal per pass.		
02 41 19 16-0010	SF Scarify Concrete Floor .....		0.25	
02 41 19 16-0011	SF Scarify Concrete Tread And Riser .....		2.04	
02 41 19 16-0012	SF Scarify Concrete Wall .....		1.86	

<b>02</b>	<b>Existing Conditions</b>
<b>02 40</b>	<b>Demolition And Structure Moving</b>
<b>02 41</b>	<b>Demolition</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>02 41 19 16-0013</b> <b>Fireproofing Removal</b> <small>(02 41 19 16)</small>		
02 41 19 16-0014    SF    Removal Of Fireproofing From Concrete Or Steel.....		0.99
<b>02 41 19 16-0015</b> <b>Demolish Ceiling</b> <small>(02 41 19 16)</small>		
02 41 19 16-0016    SF    Demolish Drywall Ceiling .....		0.76
02 41 19 16-0017    SF    Demolish Furred Plastered Ceiling .....		1.78
02 41 19 16-0018    SF    Demolish Suspended Plastered Ceiling And Suspension System.....		1.35
<b>02 41 19 16-0019</b> <b>Demolish Concrete Stair</b> <small>(02 41 19 16)</small>		
02 41 19 16-0020    CF    Demolish Interior Reinforced Concrete Stairs.....		6.37
02 41 19 16-0021    CF    Demolish Exterior Reinforced Concrete Stairs.....		5.34
<b>02 41 19 16-0022</b> <b>Demolish Interior Partition/Wall</b> <small>(02 41 19 16)</small>		
Note: Price includes knock down, loading, clean-up.		
<b>02 41 19 16-0023</b> <b>Demolish Masonry And Concrete Interior Partition/Walls</b> <small>(02 41 19 16-0022)</small>		
Note: Includes saw cutting, knock down, loading and clean-up.		
<b>02 41 19 16-0024</b> <b>Demolish Concrete Block Interior Partition/Walls</b> <small>(02 41 19 16-0023)</small>		
02 41 19 16-0025    SF    Demolish 4" Thick Non Reinforced Concrete Block Interior Partition/Wall.....		4.12
02 41 19 16-0026    SF    Demolish 6" Thick Non Reinforced Concrete Block Interior Partition/Wall.....		4.41
02 41 19 16-0027    SF    Demolish 8" Thick Non Reinforced Concrete Block Interior Partition/Wall.....		4.97
02 41 19 16-0028    SF    Demolish 12" Thick Non Reinforced Concrete Block Interior Partition/Wall.....		6.37
02 41 19 16-0029    SF    Demolish 16" Thick Non Reinforced Concrete Block Interior Partition/Wall.....		7.97
02 41 19 16-0030    SF    Demolish 4" Thick Reinforced Concrete Block Interior Partition/Wall.....		4.95
02 41 19 16-0031    SF    Demolish 6" Thick Reinforced Concrete Block Interior Partition/Wall.....		5.29
02 41 19 16-0032    SF    Demolish 8" Thick Reinforced Concrete Block Interior Partition/Wall.....		5.96
02 41 19 16-0033    SF    Demolish 12" Thick Reinforced Concrete Block Interior Partition/Wall.....		7.65
02 41 19 16-0034    SF    Demolish 16" Thick Reinforced Concrete Block Interior Partition/Wall.....		9.56
<b>02 41 19 16-0035</b> <b>Demolish Brick Interior Partition/Walls</b> <small>(02 41 19 16-0023)</small>		
02 41 19 16-0036    SF    Demolish 4" Thick Brick Interior Partition/Wall.....		4.12
02 41 19 16-0037    SF    Demolish 8" Thick Brick Interior Partition/Wall.....		4.97
02 41 19 16-0038    SF    Demolish 12" Thick Brick Interior Partition/Wall.....		6.37
02 41 19 16-0039    SF    Demolish 16" Thick Brick Interior Partition/Wall.....		7.97
<b>02 41 19 16-0040</b> <b>Demolish Glass Block Interior Partition/Walls</b> <small>(02 41 19 16-0023)</small>		
02 41 19 16-0041    SF    Demolish Glass Block Interior Partition/Walls.....		3.54
<b>02 41 19 16-0042</b> <b>Demolish Concrete Interior Partition/Walls</b> <small>(02 41 19 16-0023)</small>		
See CSI section 02 41 16 13-0021 for concrete foundation demolition.		
02 41 19 16-0043    SF    Demolish 6" Thick Non Reinforced Concrete Interior Partition/Wall.....		7.50
02 41 19 16-0044    SF    Demolish 8" Thick Non Reinforced Concrete Interior Partition/Wall.....		9.38
02 41 19 16-0045    SF    Demolish 12" Thick Non Reinforced Concrete Interior Partition/Wall.....		13.12
02 41 19 16-0046    SF    Demolish 6" Thick Reinforced Concrete Interior Partition/Wall.....		9.00
02 41 19 16-0047    SF    Demolish 8" Thick Reinforced Concrete Interior Partition/Wall.....		11.32
02 41 19 16-0048    SF    Demolish 12" Thick Reinforced Concrete Interior Partition/Wall.....		15.75
<b>02 41 19 16-0049</b> <b>Demolish Terra-Cotta Block Interior Partition/Walls</b> <small>(02 41 19 16-0023)</small>		
02 41 19 16-0050    SF    Demolish Up To 6" Thick Terra-Cotta Block Interior Partition/Wall Finished With Plaster.....		1.41
<b>02 41 19 16-0051</b> <b>Demolish Stud Framed Interior Partition/Walls</b> <small>(02 41 19 16-0022)</small>		
Note: Includes knock down, loading and clean-up. Includes demo of insulation if required.		
02 41 19 16-0052    SF    Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 1 Side.....		2.51
For Heights >14' To 20', Add		0.38
For Heights >20', Add		0.50
02 41 19 16-0053    SF    Demolish Wood Or Metal Framed Interior Partition/Wall With Drywall 2 Sides.....		2.92
For Heights >14' To 20', Add		0.44
For Heights >20', Add		0.58
02 41 19 16-0054    SF    Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 1 Side.....		3.21
For Heights >14' To 20', Add		0.48
For Heights >20', Add		0.64
02 41 19 16-0055    SF    Demolish Wood Or Metal Framed Interior Partition/Wall With Plaster And Lath 2 Sides.....		4.47
For Heights >14' To 20', Add		0.67
For Heights >20', Add		0.89
02 41 19 16-0056    SF    Demolish Plaster And Lath From 1 Side Of An Interior Partition/Wall.....		1.32
For Heights >14' To 20', Add		0.20
For Heights >20', Add		0.26
02 41 19 16-0057    SF    Demolish Plaster And Lath From 2 Sides Of An Interior Partition/Wall.....		1.57
For Heights >14' To 20', Add		0.24
For Heights >20', Add		0.31



<b>Existing Conditions</b>	<b>02</b>	<b>02</b>
<b>Demolition And Structure Moving</b>	<b>02 40</b>	
<b>Structure Moving</b>	<b>02 43</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**02 43 Structure Moving** (02 40)

**02 43 13 Structure Relocation** (02 43)

Note: Includes disconnection of utilities, moving of structure, one day move (excludes travel expenses and lodging), up to 24' wide. Reset on new foundations and hook up to utilities.

**02 43 13 00-0001 Move Relocatable Structures (Trailer, Mobile Facilities, etc.), Complete** (02 43 13)

Note: Includes disconnect portable from foundation, separate relocatable unit and attachments as needed for transport, secure all relocatable attachments (awnings, steps, ramps, railing, etc.) for transport, transport relocatable and attachments to new location, including permits and police escort, connect to foundation per approved specifications/details, including welding and/or hurricane anchoring as needed.

02 43 13 00-0002	SF	Up To 800 SF, Move Relocatable Metal Frame Building .....	28.24
02 43 13 00-0003	SF	>800 To 920 SF, Move Relocatable Metal Frame Building.....	26.69
02 43 13 00-0004	SF	>920 SF, Move Relocatable Metal Frame Building.....	24.98
02 43 13 00-0005	SF	Up To 800 SF, Move Relocatable Wood Frame Building .....	22.66
02 43 13 00-0006	SF	>800 To 920 SF, Move Relocatable Wood Frame Building .....	21.18
02 43 13 00-0007	SF	>920 SF, Move Relocatable Wood Frame Building .....	18.74
02 43 13 00-0008	SF	Up To 800 SF, Move Relocatable Wood/Metal Frame Building.....	27.44
02 43 13 00-0009	SF	>800 To 920 SF, Move Relocatable Wood/Metal Frame Building .....	24.98
02 43 13 00-0010	SF	>920 SF, Move Relocatable Wood/Metal Frame Building .....	21.18

**02 80 Facility Remediation** (02)

**02 81 Transportation And Disposal Of Hazardous Materials** (02 80)

**02 81 00 00-0001 Equipment Oil Drain And Disposal** (02 81)

02 81 00 00-0002	TRIP	Drain Oil Filled Equipment, Place In Approved Container And Transport To Disposal Site.....	350.00
Note: Excludes Disposal Cost.			
02 81 00 00-0003	DRM	Disposal Of Non-PCB Oil In Normal Landfill, Per Partial Or Full 55-Gallon Drum .....	55.00
Note: Excludes draining, placing in approved container, and transporting to disposal site.			
02 81 00 00-0004	DRM	Disposal Of Non-Toxic PCB Oil Into A Lined Landfill, Per Partial Or Full 55-Gallon Drum .....	250.00
Note: Excludes draining, placing in approved container, and transporting to disposal site.			
02 81 00 00-0005	DRM	Disposal Of Toxic PCB Oil By Incineration, Per Partial Or Full 55-Gallon Drum.....	450.00
Note: Excludes draining, placing in approved container, and transporting to disposal site.			
02 81 00 00-0006	CF	Hazardous (PCB) Oil Filled Equipment Disposal At Approved Site .....	59.90
Note: Includes handling of equipment and disposal at approved site. Excludes draining of PCB contaminated oil prior to disposal.			

**02 82 Asbestos Remediation** (02 80)

Note: Tasks include materials, equipment (e.g. ladders, high volume vacuum with sound suppression system where required, etc.), mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, HEPA vacuuming, transportation for up to 25 miles, disposal of waste at transfer facility or final destination, personnel health monitoring, negative air, fees, documentation and other associated costs necessary for the complete abatement and disposal of the ACM in accordance with EPA, OSHA, and local regulations. Where types of ACM are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. For certain types of work, there are tasks with a unit of measure of EA for a quantity of less than 10 LF or SF (10 LF to 20 LF for ACM pipe insulation), followed by a series of tasks for other quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus an additional task to arrive at the appropriate quantity for the project. This does not apply to glove bag projects. See CSI section 01 56 16 00-0030 for temporary stud walls, 01 74 19 00-0037 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.

**02 82 13 Asbestos Abatement** (02 82)

**02 82 13 00-0001 Minimum Charge For Asbestos Remediation** (02 82 13)

02 82 13 00-0002	EA	Asbestos Remediation Minimum Show Up Charge .....	770.11
Note: For projects where the total asbestos remediation charge is less than the minimum charge, use task "Minimum Charge For Asbestos Remediation" exclusively. Task "Minimum Charge For Asbestos Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.			

**02 82 13 00-0003 Air Monitoring And Bulk Sampling, Asbestos Testing** (02 82 13)

Note: Testing tasks include packaging of sample for shipping, shipping to testing lab, chain of custody documentation, analysis of sample, lab report, and sample disposal. Polarizing Light Microscope (PLM), Phase Contrast Microscope (PCM), and Transmission Electron Microscope (TEM). Excludes sampling time.

02 82 13 00-0004	HR	Bulk Sampling Or Air Monitoring, Asbestos Testing .....	62.63
02 82 13 00-0005	EA	48 Hours Or Longer Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing .....	32.49
02 82 13 00-0006	EA	Next Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing .....	38.10
02 82 13 00-0007	EA	Same Day Turnaround, (Bulk Point Counting) PLM Test, Asbestos Testing .....	60.51
02 82 13 00-0008	EA	48 Hours Or Longer Turnaround, (Bulk) TEM Test, Asbestos Testing .....	104.21
02 82 13 00-0009	EA	Next Day Turnaround, (Bulk) TEM Test, Asbestos Testing .....	126.62
02 82 13 00-0010	EA	48 Hours Or Longer Turnaround, (Air) PCM Test, Asbestos Testing.....	25.77
02 82 13 00-0011	EA	Next Day Turnaround, (Air) PCM Test, Asbestos Testing .....	31.37
02 82 13 00-0012	EA	Same Day Turnaround, (Air) PCM Test, Asbestos Testing .....	42.58
02 82 13 00-0013	EA	48 Hours Or Longer Turnaround, (Air Point Counting) PLM Test .....	32.49
02 82 13 00-0014	EA	Next Day Turnaround, (Air Point Counting) PLM Test .....	38.10
02 82 13 00-0015	EA	Same Day Turnaround, (Air Point Counting) PLM Test .....	60.51
02 82 13 00-0016	EA	48 Hours Or Longer Turnaround, (Air) TEM Test, Asbestos Testing .....	104.21
02 82 13 00-0017	EA	Next Day Turnaround, (Air) TEM Test, Asbestos Testing.....	119.89
02 82 13 00-0018	EA	Same Day Turnaround, (Air) TEM Test, Asbestos Testing.....	166.95

**02 Existing Conditions****02 80 Facility Remediation****02 82 Asbestos Remediation**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**02 82 16 Engineering Control of Asbestos Containing Materials (02 82)****02 82 16 00-0001 Asbestos Encapsulation (Lock-Down) (02 82 16)**

02 82 16 00-0002	SF	Asbestos Encapsulant Spray Adhesive (Lock-Down), Per Coat.....	1.15
02 82 16 00-0003	SF	Asbestos Binding Compound Encapsulant/Sealant, Per Coat Required (Fiberlock® ABC® Asbestos Binding Compound).....	1.53
02 82 16 00-0004	SF	Asbestos Fiberspray Encapsulation (Fiberlock® ABC Fiberspray®).....	1.58
02 82 16 00-0005	SF	Asbestos Acrylic Encasement/Encapsulation (Fiberlock® Lag-Kote®).....	1.79
02 82 16 00-0006	SF	Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kwik®).....	5.06
02 82 16 00-0007	SF	Water Activated Repair Cloth Encapsulant (Fiberlock® Lag-Kloth®).....	5.65

**02 82 33 Removal and Disposal of Asbestos Containing Materials (02 82)****02 82 33 00-0001 Pipe And Pipe Fittings Insulation, Asbestos Abatement And Disposal (02 82 33)****02 82 33 00-0002 Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0001)**

Note: Diameter is outer size of insulation. Treat fittings as additional linear feet of insulation.

**02 82 33 00-0003 Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)**

See CSI section 02 82 33 00-0017 for projects with less than 10 LF.

02 82 33 00-0004	EA	Up To 20 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	518.79
		<i>For Work In Restricted Working Space, Add</i>	<i>155.64</i>
02 82 33 00-0005	LF	>20 To 250 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	26.53
		<i>For Work In Restricted Working Space, Add</i>	<i>7.96</i>
02 82 33 00-0006	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	19.90
		<i>For Work In Restricted Working Space, Add</i>	<i>5.97</i>
02 82 33 00-0007	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	14.92
		<i>For Work In Restricted Working Space, Add</i>	<i>4.48</i>
02 82 33 00-0008	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	11.19
		<i>For Work In Restricted Working Space, Add</i>	<i>3.36</i>
02 82 33 00-0009	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	9.73
		<i>For Work In Restricted Working Space, Add</i>	<i>2.92</i>

**02 82 33 00-0010 >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)**

See CSI section 02 82 33 00-0017 for projects with less than 10 LF.

02 82 33 00-0011	EA	Up To 20 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	518.79
		<i>For Work In Restricted Working Space, Add</i>	<i>155.64</i>
02 82 33 00-0012	LF	>20 To 250 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	30.51
		<i>For Work In Restricted Working Space, Add</i>	<i>9.15</i>
02 82 33 00-0013	LF	>250 To 500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	22.88
		<i>For Work In Restricted Working Space, Add</i>	<i>6.86</i>
02 82 33 00-0014	LF	>500 To 2,500 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	17.16
		<i>For Work In Restricted Working Space, Add</i>	<i>5.15</i>
02 82 33 00-0015	LF	>2,500 To 10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	12.86
		<i>For Work In Restricted Working Space, Add</i>	<i>3.86</i>
02 82 33 00-0016	LF	>10,000 LF, >6" To 12" Diameter Pipe Insulation, Asbestos Abatement And Disposal.....	11.19
		<i>For Work In Restricted Working Space, Add</i>	<i>3.36</i>

**02 82 33 00-0017 Glove Bag Method, Pipe Insulation, Asbestos Abatement And Disposal (02 82 33 00-0002)**

Note: Solid isolation barriers and plastic sheeting for containment construction (except on floor) are not required for glove bag projects unless required by local codes.

02 82 33 00-0018	EA	Glove Bag For First 3 LF Pipe Insulation, Asbestos Abatement And Disposal.....	563.60
		<i>For Work In Restricted Working Space, Add</i>	<i>169.08</i>
02 82 33 00-0019	LF	>3 To 20 LF Additional Glove Bag Work for Pipe Insulation.....	83.49
		<i>For Work In Restricted Working Space, Add</i>	<i>25.05</i>
02 82 33 00-0020	LF	>20 To 250 LF Additional Glove Bag Work for Pipe Insulation.....	32.41
		<i>For Work In Restricted Working Space, Add</i>	<i>9.72</i>
02 82 33 00-0021	LF	>250 To 500 LF Additional Glove Bag Work for Pipe Insulation.....	24.30
		<i>For Work In Restricted Working Space, Add</i>	<i>7.29</i>
02 82 33 00-0022	LF	>500 LF Additional Glove Bag Work for Pipe Insulation.....	18.23
		<i>For Work In Restricted Working Space, Add</i>	<i>5.47</i>

**02 82 33 00-0023 Thermal Insulation, Asbestos Abatement And Disposal (02 82 33)****02 82 33 00-0024 Calcium Block Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)**

02 82 33 00-0025	EA	Up To 10 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	518.79
02 82 33 00-0026	SF	>10 To 500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	31.71
02 82 33 00-0027	SF	>500 To 2,500 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	26.07
02 82 33 00-0028	SF	>2,500 To 10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	20.84
02 82 33 00-0029	SF	>10,000 SF, Calcium Block Insulation, Asbestos Abatement And Disposal.....	16.93

**02 82 33 00-0030 Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)**

02 82 33 00-0031	EA	Up To 10 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	518.79
02 82 33 00-0032	SF	>10 To 500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	28.09



<b>Existing Conditions</b>	<b>02</b>
<b>Facility Remediation</b>	<b>02 80</b>
<b>Asbestos Remediation</b>	<b>02 82</b>

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0033 SF >500 To 2,500 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	22.45	
02 82 33 00-0034 SF >2,500 To 10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	17.22	
02 82 33 00-0035 SF >10,000 SF, Fibrous Glass Blanket Insulation, Asbestos Abatement And Disposal.....	13.30	
<b>02 82 33 00-0036 Fibrous Glass Board Insulation, Asbestos Abatement And Disposal (02 82 33 00-0023)</b>		
02 82 33 00-0037 EA Up To 10 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0038 SF >10 To 500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	24.98	
02 82 33 00-0039 SF >500 To 2,500 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	19.34	
02 82 33 00-0040 SF >2,500 To 10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	14.11	
02 82 33 00-0041 SF >10,000 SF, Fibrous Glass Board Insulation, Asbestos Abatement And Disposal.....	10.18	
<b>02 82 33 00-0042 Other Thermal Insulation, Up To 3" Thickness, Asbestos Abatement And Disposal (02 82 33 00-0023)</b>		
Note: e.g., duct, boiler, tank, etc.		
02 82 33 00-0043 EA Up To 10 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0044 SF >10 To 500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	26.53	
02 82 33 00-0045 SF >500 To 2,500 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	20.89	
02 82 33 00-0046 SF >2,500 To 10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	15.67	
02 82 33 00-0047 SF >10,000 SF, Up To 3" Thickness Thermal Insulation, Asbestos Abatement And Disposal.....	11.75	
<b>02 82 33 00-0048 Surfacing Material, Asbestos Abatement And Disposal (02 82 33)</b>		
<b>02 82 33 00-0049 Fireproofing For Small Areas, Asbestos Abatement And Disposal (02 82 33 00-0048)</b>		
Note: For asbestos abatement for up to 1 SF sections to expose area for attachments. See CSI section 02 82 33 00-0051 for areas > 1 SF see CSI section.		
02 82 33 00-0050 EA Up To 1 SF, Fireproofing For Small Areas, Asbestos Abatement And Disposal.....	129.70	
Note: For asbestos abatement for up to 1 SF sections to expose steel area for welding attachments.		
<b>02 82 33 00-0051 Fireproofing, Asbestos Abatement And Disposal (02 82 33 00-0048)</b>		
Note: Exposed surface area, includes associated overspray.		
02 82 33 00-0052 EA Up To 10 SF, Fireproofing, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0053 SF >10 To 500 SF, Fireproofing, Asbestos Abatement And Disposal.....	31.83	
02 82 33 00-0054 SF >500 To 2,500 SF, Fireproofing, Asbestos Abatement And Disposal.....	23.86	
02 82 33 00-0055 SF >2,500 To 10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	17.90	
02 82 33 00-0056 SF >10,000 SF, Fireproofing, Asbestos Abatement And Disposal.....	13.42	
<b>02 82 33 00-0057 Acoustical Plaster, Asbestos Abatement And Disposal (02 82 33 00-0048)</b>		
Note: Remove surface coat from brown coat or remove entire assembly, including lathe and finish materials.		
02 82 33 00-0058 EA Up To 10 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0059 SF >10 To 500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	13.29	
02 82 33 00-0060 SF >500 To 2,500 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	10.06	
02 82 33 00-0061 SF >2,500 To 10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	7.46	
02 82 33 00-0062 SF >10,000 SF, Acoustical Plaster, Asbestos Abatement And Disposal.....	5.51	
<b>02 82 33 00-0063 Gypsum Wall Board, Asbestos Abatement And Disposal (02 82 33 00-0048)</b>		
02 82 33 00-0064 EA Up To 10 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	518.79	
For Additional Layer, Add	142.67	
02 82 33 00-0065 SF >10 To 500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	10.22	
For Additional Layer, Add	2.81	
02 82 33 00-0066 SF >500 To 2,500 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	7.46	
For Additional Layer, Add	2.05	
02 82 33 00-0067 SF >2,500 To 10,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	5.83	
For Additional Layer, Add	1.60	
02 82 33 00-0068 SF >10,000 To 50,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	4.53	
For Additional Layer, Add	1.25	
02 82 33 00-0069 SF >50,000 To 100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	3.57	
For Additional Layer, Add	0.98	
02 82 33 00-0070 SF >100,000 SF, Single Layer Gypsum Wall Board, Asbestos Abatement And Disposal.....	2.85	
For Additional Layer, Add	0.78	
<b>02 82 33 00-0071 Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal (02 82 33 00-0048)</b>		
02 82 33 00-0072 EA Up To 10 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0073 SF >10 To 500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	19.39	
02 82 33 00-0074 SF >500 To 2,500 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	14.20	
02 82 33 00-0075 SF >2,500 To 10,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	11.08	
02 82 33 00-0076 SF >10,000 To 50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	8.63	
02 82 33 00-0077 SF >50,000 SF, Gypsum Wall Board (Or Backer Board) With Ceramic Tile And Mastic, Asbestos Abatement And Disposal.....	6.16	

**02 Existing Conditions****02 80 Facility Remediation****02 82 Asbestos Remediation**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST

<b>02 82 33 00-0078</b>	<b>Stucco, Asbestos Abatement And Disposal</b> (02 82 33 00-0048)		
02 82 33 00-0079	EA Up To 10 SF, Stucco, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0080	SF >10 To 500 SF, Stucco, Asbestos Abatement And Disposal.....	22.54	
02 82 33 00-0081	SF >500 To 2,500 SF, Stucco, Asbestos Abatement And Disposal.....	16.92	
02 82 33 00-0082	SF >2,500 To 10,000 SF, Stucco, Asbestos Abatement And Disposal.....	12.68	
02 82 33 00-0083	SF >10,000 SF, Stucco, Asbestos Abatement And Disposal.....	9.51	
<b>02 82 33 00-0084</b>	<b>Spray On Acoustical Ceiling, Asbestos Abatement And Disposal</b> (02 82 33 00-0048)		
02 82 33 00-0085	EA Up To 10 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0086	SF >10 To 500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	8.65	
02 82 33 00-0087	SF >500 To 2,500 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	6.49	
02 82 33 00-0088	SF >2,500 To 10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	4.87	
02 82 33 00-0089	SF >10,000 SF, Spray On Acoustical Ceiling, Asbestos Abatement And Disposal.....	3.64	
<b>02 82 33 00-0090</b>	<b>Plywood, Asbestos Abatement And Disposal</b> (02 82 33 00-0048)		
02 82 33 00-0091	EA Up To 10 SF, Plywood, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0092	SF >10 To 500 SF, Plywood, Asbestos Abatement And Disposal.....	11.02	
02 82 33 00-0093	SF >500 To 2,500 SF, Plywood, Asbestos Abatement And Disposal.....	5.31	
02 82 33 00-0094	SF >2,500 To 10,000 SF, Plywood, Asbestos Abatement And Disposal.....	3.58	
02 82 33 00-0095	SF >10,000 SF, Plywood, Asbestos Abatement And Disposal.....	3.04	
<b>02 82 33 00-0096</b>	<b>Flooring Material, Asbestos Abatement And Disposal</b> (02 82 33)		
<b>02 82 33 00-0097</b>	<b>Floor Tile, Linoleum, Carpet Or Base, Asbestos Abatement And Disposal</b> (02 82 33 00-0096)		
<b>02 82 33 00-0098</b>	<b>Floor Tile Or Linoleum, Asbestos Abatement And Disposal</b> (02 82 33 00-0097)		
	Note: Single layer or first of multiple layers. Excludes mastic.		
02 82 33 00-0099	EA Up To 10 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0100	SF >10 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Asbestos Abatement And Disposal.....	5.31	
	For Each Additional Layer, Add	1.33	
02 82 33 00-0101	SF >500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Asbestos Abatement And Disposal.....	4.31	
	For Each Additional Layer, Add	1.08	
02 82 33 00-0102	SF >2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Asbestos Abatement And Disposal.....	3.41	
	For Each Additional Layer, Add	0.85	
02 82 33 00-0103	SF >10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Asbestos Abatement And Disposal.....	2.30	
	For Each Additional Layer, Add	0.58	
<b>02 82 33 00-0104</b>	<b>Carpet, Asbestos Abatement And Disposal</b> (02 82 33 00-0097)		
02 82 33 00-0105	EA Up To 10 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0106	SF >10 To 500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	4.11	
02 82 33 00-0107	SF >500 To 2,500 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	3.29	
02 82 33 00-0108	SF >2,500 To 10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	2.36	
02 82 33 00-0109	SF >10,000 SF, Non-Friable Carpet, Asbestos Abatement And Disposal.....	1.76	
<b>02 82 33 00-0110</b>	<b>Wall Or Cove Base, Asbestos Abatement And Disposal</b> (02 82 33 00-0097)		
	Note: Up to 12".		
02 82 33 00-0111	EA Up To 10 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	194.54	
02 82 33 00-0112	LF >10 To 100 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	3.46	
02 82 33 00-0113	LF >100 To 500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	2.08	
02 82 33 00-0114	LF >500 To 2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	1.30	
02 82 33 00-0115	LF >2,500 LF, Wall Base And Mastic, Asbestos Abatement And Disposal.....	0.91	
<b>02 82 33 00-0116</b>	<b>Mastic, Asbestos Abatement And Disposal</b> (02 82 33 00-0096)		
	Note: Applies to single layer or bottom layer only of multiple layers. Non hydrocarbon with pine, citrus or no odor.		
02 82 33 00-0117	EA Up To 10 SF, Mastic, Asbestos Abatement And Disposal.....	518.79	
	Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0118	SF >10 To 500 SF, Mastic, Asbestos Abatement And Disposal.....	1.33	
	Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0119	SF >500 To 2,500 SF, Mastic, Asbestos Abatement And Disposal.....	0.98	
	Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0120	SF >2,500 To 10,000 SF, Mastic, Asbestos Abatement And Disposal.....	0.75	
	Note: Applies to bottom layer only if multiple layers.		
02 82 33 00-0121	SF >10,000 SF, Mastic, Asbestos Abatement And Disposal.....	0.60	
	Note: Applies to bottom layer only if multiple layers.		
<b>02 82 33 00-0122</b>	<b>Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal</b> (02 82 33 00-0096)		
	Note: Includes finish wood, asbestos barrier paper, cleanup of sub-wood floor, fasteners, wood fillers and protection of clean crawl space from contamination.		





<b>Existing Conditions</b>	<b>02</b>
<b>Facility Remediation</b>	<b>02 80</b>
<b>Asbestos Remediation</b>	<b>02 82</b>

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0123 EA Up To 10 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0124 SF >10 To 500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	6.13	
02 82 33 00-0125 SF >500 To 2,500 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	4.47	
02 82 33 00-0126 SF >2,500 To 10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.51	
02 82 33 00-0127 SF >10,000 SF, Hardwood Flooring System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	2.72	
<b>02 82 33 00-0128 Roofing, Asbestos Abatement And Disposal (02 82 33)</b>		
<b>02 82 33 00-0129 Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0128)</b>		
Note: Includes paint, flashing, sheet metal, insulation, pitch pockets, board etc.		
<b>02 82 33 00-0130 Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0129)</b>		
02 82 33 00-0131 EA Up To 125 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0132 SF >125 To 1,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.15	
02 82 33 00-0133 SF >1,000 To 5,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.31	
02 82 33 00-0134 SF >5,000 To 10,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	2.65	
02 82 33 00-0135 SF >10,000 To 20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1.99	
02 82 33 00-0136 SF >20,000 SF, Up To 2" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1.49	
<b>02 82 33 00-0137 &gt;2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0129)</b>		
02 82 33 00-0138 EA Up To 110 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0139 SF >110 To 1,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.72	
02 82 33 00-0140 SF >1,000 To 5,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.76	
02 82 33 00-0141 SF >5,000 To 10,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.03	
02 82 33 00-0142 SF >10,000 To 20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	2.27	
02 82 33 00-0143 SF >20,000 SF, >2" To 5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1.69	
<b>02 82 33 00-0144 &gt;5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0129)</b>		
02 82 33 00-0145 EA Up To 110 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0146 SF >110 To 1,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	5.24	
02 82 33 00-0147 SF >1,000 To 5,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	4.18	
02 82 33 00-0148 SF >5,000 To 10,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	3.37	
02 82 33 00-0149 SF >10,000 To 20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	2.52	
02 82 33 00-0150 SF >20,000 SF, >5" Average Thickness, Built-Up Tar And Felt Roofing, Asbestos Abatement And Disposal.....	1.89	
<b>02 82 33 00-0151 Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0128)</b>		
<b>02 82 33 00-0152 Shingles And Felt Roofing, Asbestos Abatement And Disposal (02 82 33 00-0151)</b>		
02 82 33 00-0153 EA Up To 125 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	518.79	
Note: Single or first of multiple layers.		
02 82 33 00-0154 SF >125 To 1,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	4.15	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add		1.04
02 82 33 00-0155 SF >1,000 To 5,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	3.31	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add		0.83
02 82 33 00-0156 SF >5,000 To 10,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	2.65	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add		0.66
02 82 33 00-0157 SF >10,000 To 20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	1.99	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add		0.50
02 82 33 00-0158 SF >20,000 SF, Shingles And Felt Roofing, Asbestos Abatement And Disposal.....	1.49	
Note: Single or first of multiple layers.		
For Each Additional Layer, Add		0.37
<b>02 82 33 00-0159 Roof Penetration Mastic, Asbestos Abatement And Disposal (02 82 33 00-0128)</b>		
02 82 33 00-0160 EA Up To 10 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	129.70	
02 82 33 00-0161 SF >10 To 50 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.62	
02 82 33 00-0162 SF >50 To 100 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.33	

**02 Existing Conditions****02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0163 SF >100 To 250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	1.07	
02 82 33 00-0164 SF >250 SF, Roof Penetration Mastic, Asbestos Abatement And Disposal.....	0.78	
<b>02 82 33 00-0165 Roof Curb Mastic, Asbestos Abatement And Disposal (02 82 33 00-0128)</b>		
02 82 33 00-0166 EA Up To 10 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	129.70	
02 82 33 00-0167 LF >10 To 20 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	4.87	
02 82 33 00-0168 LF >20 To 50 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	3.89	
02 82 33 00-0169 LF >50 To 150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	3.24	
02 82 33 00-0170 LF >150 LF, Roof Curb Mastic, Asbestos Abatement And Disposal.....	2.34	
<b>02 82 33 00-0171 Asbestos-Cement Products, Asbestos Abatement And Disposal (02 82 33)</b>		
<b>02 82 33 00-0172 Interior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0171)</b>		
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0173 EA Up To 10 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	518.79	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0174 SF >10 To 500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	5.31	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0175 SF >500 To 2,500 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.65	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0176 SF >2,500 To 10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.12	
Note: Includes detachment of mounted objects before removal.		
02 82 33 00-0177 SF >10,000 SF, Interior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	1.84	
Note: Includes detachment of mounted objects before removal.		
<b>02 82 33 00-0178 Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal (02 82 33 00-0171)</b>		
02 82 33 00-0179 EA Up To 10 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0180 SF >10 To 500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	4.61	
02 82 33 00-0181 SF >500 To 2,500 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	2.36	
02 82 33 00-0182 SF >2,500 To 10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	1.89	
02 82 33 00-0183 SF >10,000 SF, Exterior Asbestos-Cement Board, Asbestos Abatement And Disposal.....	1.64	
<b>02 82 33 00-0184 Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal (02 82 33 00-0171)</b>		
02 82 33 00-0185 EA Up To 10 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0186 LF >10 To 100 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	26.53	
02 82 33 00-0187 LF >100 To 250 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	19.90	
02 82 33 00-0188 LF >250 To 500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	14.92	
02 82 33 00-0189 LF >500 To 2,500 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	11.19	
02 82 33 00-0190 LF >2,500 To 10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	8.39	
02 82 33 00-0191 LF >10,000 LF, Up To 12" Diameter Asbestos-Cement Pipe, Asbestos Abatement And Disposal.....	8.20	
<b>02 82 33 00-0192 Exterior Transite Siding, Asbestos Abatement And Disposal (02 82 33 00-0171)</b>		
02 82 33 00-0193 EA Up To 125 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	518.79	
Note: Single or first of multiple layers.		
02 82 33 00-0194 SF >125 To 1,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	4.15	
Note: Single or first of multiple layers.		
02 82 33 00-0195 SF >1,000 To 5,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	3.31	
Note: Single or first of multiple layers.		
02 82 33 00-0196 SF >5,000 To 10,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	2.65	
Note: Single or first of multiple layers.		
02 82 33 00-0197 SF >10,000 To 20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	1.99	
Note: Single or first of multiple layers.		
02 82 33 00-0198 SF >20,000 SF, Exterior Transite Siding, Asbestos Abatement And Disposal.....	1.49	
Note: Single or first of multiple layers.		
<b>02 82 33 00-0199 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33)</b>		
<b>02 82 33 00-0200 Asbestos Contaminated Debris, Asbestos Abatement And Disposal (02 82 33 00-0199)</b>		
02 82 33 00-0201 EA Up To 10 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	518.79	
For Work In Restricted Working Space, Add	155.64	
02 82 33 00-0202 CF >10 To 100 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	51.58	
For Work In Restricted Working Space, Add	15.47	
02 82 33 00-0203 CF >100 To 250 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	34.39	
For Work In Restricted Working Space, Add	10.32	
02 82 33 00-0204 CF >250 To 500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	25.83	
For Work In Restricted Working Space, Add	7.75	
02 82 33 00-0205 CF >500 To 2,500 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	20.64	
For Work In Restricted Working Space, Add	6.19	
02 82 33 00-0206 CF >2,500 To 10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	17.54	
For Work In Restricted Working Space, Add	5.26	
02 82 33 00-0207 CF >10,000 CF, Asbestos Contaminated Debris, Asbestos Abatement And Disposal.....	15.78	
For Work In Restricted Working Space, Add	4.73	



<b>Existing Conditions</b>	<b>02</b>	
Facility Remediation	02 80	02
Asbestos Remediation	02 82	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>02 82 33 00-0208 Asbestos Contaminated Soil, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0199)</small>		
02 82 33 00-0209 EA Up To 10 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....	778.19	
<i>For Work In Restricted Working Space, Add</i>	233.46	
02 82 33 00-0210 CF >10 To 100 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....	51.58	
<i>For Work In Restricted Working Space, Add</i>	15.47	
02 82 33 00-0211 CF >100 To 250 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....	34.39	
<i>For Work In Restricted Working Space, Add</i>	10.32	
02 82 33 00-0212 CF >250 To 500 CF, Asbestos Contaminated Asbestos Abatement And Disposal .....	25.83	
02 82 33 00-0213 CF >500 To 2,500 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....	20.64	
<i>For Work In Restricted Working Space, Add</i>	6.19	
02 82 33 00-0214 CF >2,500 To 10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....	17.54	
<i>For Work In Restricted Working Space, Add</i>	5.26	
02 82 33 00-0215 CF >10,000 CF, Asbestos Contaminated Soil, Asbestos Abatement And Disposal .....	15.78	
<i>For Work In Restricted Working Space, Add</i>	4.73	
<b>02 82 33 00-0216 Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0199)</small>		
02 82 33 00-0217 EA Up To 4 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	518.79	
02 82 33 00-0218 EA >4 To 40 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	46.43	
02 82 33 00-0219 EA >40 To 60 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	30.95	
02 82 33 00-0220 EA >60 To 125 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	23.25	
02 82 33 00-0221 EA >125 To 625 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	18.58	
02 82 33 00-0222 EA >625 To 1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	15.78	
02 82 33 00-0223 EA >1,500 EA, Asbestos Contaminated Light Fixture, Asbestos Abatement And Disposal .....	14.20	
<b>02 82 33 00-0224 Other Asbestos Containing Materials, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0199)</small>		
<b>02 82 33 00-0225 30" To 36" Fire Door, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0224)</small>		
02 82 33 00-0226 EA Up To 1 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal .....	518.79	
02 82 33 00-0227 EA >1 To 20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal .....	93.38	
02 82 33 00-0228 EA >20 EA, 30" To 36" Fire Door, Asbestos Abatement And Disposal .....	84.04	
<b>02 82 33 00-0229 HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0224)</small>		
02 82 33 00-0230 EA Up To 10 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	259.40	
02 82 33 00-0231 LF >10 To 50 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	5.31	
02 82 33 00-0232 LF >50 To 100 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	3.98	
02 82 33 00-0233 LF >100 To 250 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	3.42	
02 82 33 00-0234 LF >250 To 1,000 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	2.95	
02 82 33 00-0235 LF >1,000 To 2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	2.52	
02 82 33 00-0236 LF >2,500 LF, HVAC Duct Flexible Connector (Web Cloth), Asbestos Abatement And Disposal .....	2.18	
<b>02 82 33 00-0237 Grout, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0224)</small>		
Note: e.g. flue grout.		
02 82 33 00-0238 EA Up To 10 LF, Grout, Asbestos Abatement And Disposal .....	194.54	
02 82 33 00-0239 LF >10 To 50 LF, Grout, Asbestos Abatement And Disposal .....	10.22	
02 82 33 00-0240 LF >50 To 100 LF, Grout, Asbestos Abatement And Disposal .....	7.03	
02 82 33 00-0241 LF >100 To 250 LF, Grout, Asbestos Abatement And Disposal .....	6.02	
02 82 33 00-0242 LF >250 To 1,000 LF, Grout, Asbestos Abatement And Disposal .....	5.18	
02 82 33 00-0243 LF >1,000 To 2,500 LF, Grout, Asbestos Abatement And Disposal .....	4.46	
02 82 33 00-0244 LF >2,500 LF, Grout, Asbestos Abatement And Disposal .....	3.82	
<b>02 82 33 00-0245 Gaskets, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0224)</small>		
Note: e.g. rope, web cloth, flat.		
02 82 33 00-0246 EA Up To 10 LF, Gaskets, Asbestos Abatement And Disposal .....	194.54	
02 82 33 00-0247 LF >10 To 50 LF, Gaskets, Asbestos Abatement And Disposal .....	13.75	
02 82 33 00-0248 LF >50 To 250 LF, Gaskets, Asbestos Abatement And Disposal .....	10.31	
02 82 33 00-0249 LF >250 To 500 LF, Gaskets, Asbestos Abatement And Disposal .....	8.79	
02 82 33 00-0250 LF >500 To 1,500 LF, Gaskets, Asbestos Abatement And Disposal .....	7.91	
02 82 33 00-0251 LF >1,500 To 2,500 LF, Gaskets, Asbestos Abatement And Disposal .....	7.11	
02 82 33 00-0252 LF >2,500 LF, Gaskets, Asbestos Abatement And Disposal .....	6.76	
<b>02 82 33 00-0253 Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0224)</small>		
Note: e.g. grid, spline, or glued on; 12" x 12" to 2' x 4'.		
02 82 33 00-0254 EA Up To 50 SF, Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal .....	518.79	
02 82 33 00-0255 SF >50 To 1,000 SF, Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal .....	11.02	
02 82 33 00-0256 SF >1,000 To 2,500 SF, Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal .....	5.31	
02 82 33 00-0257 SF >2,500 To 10,000 SF, Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal .....	3.58	
02 82 33 00-0258 SF >10,000 SF, Ceiling Tile Including Glue Removal, Asbestos Abatement And Disposal .....	3.04	
<b>02 82 33 00-0259 Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal</b> <small>(02 82 33 00-0224)</small>		
Note: Includes ceiling tile, asbestos barrier paper, and furring strips.		

**02 Existing Conditions****02 80 Facility Remediation****02 82 Asbestos Remediation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 82 33 00-0260 EA Up To 50 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	518.79	
02 82 33 00-0261 SF >50 To 1,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	11.02	
02 82 33 00-0262 SF >1,000 To 2,500 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	5.31	
02 82 33 00-0263 SF >2,500 To 10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.58	
02 82 33 00-0264 SF >10,000 SF, Nailed-On Ceiling Tile System With Asbestos Barrier Paper Backing, Asbestos Abatement And Disposal.....	3.04	
<b>02 82 33 00-0265 Caulking, Asbestos Abatement And Disposal (02 82 33 00-0224)</b>		
<b>02 82 33 00-0266 Non Friable Caulking, Asbestos Abatement And Disposal (02 82 33 00-0265)</b>		
02 82 33 00-0267 EA Up To 10 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal.....	194.54	
02 82 33 00-0268 LF >10 To 50 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal.....	7.65	
02 82 33 00-0269 LF >50 To 100 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal.....	5.39	
02 82 33 00-0270 LF >100 To 250 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal.....	4.01	
02 82 33 00-0271 LF >250 To 1,000 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal.....	3.01	
02 82 33 00-0272 LF >1,000 To 2,500 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal.....	2.39	
02 82 33 00-0273 LF >2,500 LF, Non Friable Asbestos Or PCB Contaminated Caulking, Asbestos Abatement And Disposal.....	2.07	
<b>02 83 Lead Remediation (02 80)</b>		
Note: Tasks include materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, personnel health monitoring, negative air, documentation and other associated costs necessary for the complete removal and disposal of lead contaminated materials in accordance with EPA and local regulations. Where types of Lead are listed by quantity, the quantity of the entire project, not a particular work area, is to be used in determining which task applies. See CSI section 01 74 19 00-0037 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for solid isolation barriers, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.		
<b>02 83 19 Lead-Based Paint Remediation (02 83)</b>		
<b>02 83 19 13 Lead-Based Paint Abatement (02 83 19)</b>		
<b>02 83 19 13-0001 Testing Material Of Lead Contamination (02 83 19 13)</b>		
Note: Includes report from certified/qualified personnel.		
02 83 19 13-0002 EA Test Existing Material For Lead, Up To 10 Tests.....	24.88	
02 83 19 13-0003 EA Test Existing Material For Lead, >10 To 25 Tests.....	22.04	
02 83 19 13-0004 EA Test Existing Material For Lead, 26 To 50 Tests.....	20.62	
02 83 19 13-0005 EA Test Existing Material For Lead, 51 To 100 Tests.....	19.20	
02 83 19 13-0006 EA Test Existing Material For Lead, 101 To 150 Tests.....	17.06	
02 83 19 13-0007 EA Test Existing Material For Lead, 151 To 250 Tests.....	15.64	
02 83 19 13-0008 EA Test Existing Material For Lead, >250 Tests.....	14.22	
02 83 19 13-0009 EA Lead Inspections Of Units.....	213.28	
02 83 19 13-0010 HR Lead-Based Paint Inspector.....	65.00	
02 83 19 13-0011 EA Lead Danger Sign.....	14.00	
<b>02 83 19 13-0012 Sampling And Testing (02 83 19 13)</b>		
Note: Includes taking sample, delivery to lab and lab fee.		
02 83 19 13-0013 EA X-Ray Fluorescence (XRF) Lead Testing Including Technician, 3 Readings Per Surface And Lab Fee.....	38.63	
02 83 19 13-0014 EA Toxicity Characteristic Leaching Procedure (TCLP) Lead Test (5 Day Turnaround) And Lab Fee.....	36.98	
02 83 19 13-0015 EA Toxicity Characteristic Leaching Procedure (TCLP) Lead Test (48 Hour Turnaround) And Lab Fee.....	56.02	
02 83 19 13-0016 EA Toxicity Characteristic Leaching Procedure (TCLP) Lead Test (24 Hour Turnaround) And Lab Fee.....	78.44	
02 83 19 13-0017 EA Total Threshold Leaching Concentration (TTL) Lead Test (5 Day Turnaround) And Lab Fee.....	14.57	
02 83 19 13-0018 EA Total Threshold Leaching Concentration (TTL) Lead Test (24 Hour Turnaround) And Lab Fee.....	22.41	
02 83 19 13-0019 EA Total Threshold Leaching Concentration (TTL) Lead Test (8 Hour Turnaround) And Lab Fee.....	28.01	
02 83 19 13-0020 EA Soluble Threshold Limit Concentration (STLC) Lead Test (5 Day Turnaround) And Lab Fee.....	36.98	
02 83 19 13-0021 EA Soluble Threshold Limit Concentration (STLC) Lead Test (3 Day Turnaround) And Lab Fee.....	56.02	
02 83 19 13-0022 EA Lead Wipe Samples (5 Day Turnaround) And Lab Fee.....	6.16	
02 83 19 13-0023 EA Lead Wipe Samples (24 Hour Turnaround) And Lab Fee.....	8.40	
02 83 19 13-0024 EA Lead Wipe Samples (8 Hour Turnaround) And Lab Fee.....	12.33	
02 83 19 13-0025 EA Lead Air Samples (5 Day Turn -Around) And Lab Fee.....	6.16	
02 83 19 13-0026 EA Lead Air Samples (24 Hour Turnaround) And Lab Fee.....	8.40	
02 83 19 13-0027 EA Lead Air Samples (8 Hour Turnaround) And Lab Fee.....	12.33	
02 83 19 13-0028 EA Lead Water Test (5 Day Turnaround) and Lab Fee.....	22.41	
02 83 19 13-0029 EA Lead Water Test (24 Hour Turnaround) and Lab Fee.....	33.62	
02 83 19 13-0030 EA Lead Water Test (8 Hour Turnaround) and Lab Fee.....	44.82	
02 83 19 13-0031 EA Lead Paint Chip Test (5 Day Turnaround) and Lab Fee.....	23.18	
02 83 19 13-0032 EA Lead Soil Test (5 Day Turnaround) and Lab Fee.....	46.35	
<b>02 83 19 13-0033 Minimum Charge For Lead-Based Paint Remediation (02 83 19 13)</b>		
02 83 19 13-0034 EA Lead-Based Paint Remediation Minimum Show Up Charge.....	829.48	
Note: For projects where the total lead-based paint remediation charge is less than the minimum charge, use task "Minimum Charge For Lead-Based Paint Remediation" exclusively. Task "Minimum Charge For Lead-Based Paint Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.		



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**02 83 19 13-0035**

**Chemical Stripping Of Lead Contaminated Material** (02 83 19 13)

Note: Per 0.02" (20 mils) application. Manufacture recommended operating temperatures not to be below 50 degrees. Includes heat gun (where required) for follow up, waste handling, packing and all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.

02 83 19 13-0036	SF	Balustrades, Chemical Stripping Of Lead Contaminated Material .....	26.84
02 83 19 13-0037	SF	Balustrades, Ornate, Chemical Stripping Of Lead Contaminated Material .....	39.82
02 83 19 13-0038	LF	Up To 6" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material .....	11.53
02 83 19 13-0039	LF	>6" To 12" Wide, Wood Trim, Chemical Stripping Of Lead Contaminated Material .....	23.54
02 83 19 13-0040	SF	Cornice, Chemical Stripping Of Lead Contaminated Material .....	12.53
02 83 19 13-0041	SF	Cornice, Ornate, Chemical Stripping Of Lead Contaminated Material .....	35.49
02 83 19 13-0042	SF	Brick, Concrete Block, Concrete, Chemical Stripping Of Lead Contaminated Material .....	7.72
02 83 19 13-0043	SF	Cabinets, Chemical Stripping Of Lead Contaminated Material .....	22.44
02 83 19 13-0044	SF	Cabinets, Ornate, Chemical Stripping Of Lead Contaminated Material .....	28.60
02 83 19 13-0045	SF	Plaster, Stucco and Drywall Surfaces, Chemical Stripping Of Lead Contaminated Material .....	10.65
02 83 19 13-0046	SF	Columns, Chemical Stripping Of Lead Contaminated Material .....	10.24
02 83 19 13-0047	SF	Flush Doors, One Side, Chemical Stripping Of Lead Contaminated Material .....	9.02
02 83 19 13-0048	SF	Raised Panel Doors and Decorative Doors, Chemical Stripping Of Lead Contaminated Material .....	9.41
02 83 19 13-0049	SF	Sectional Panel Or Roll-Up Doors, Chemical Stripping Of Lead Contaminated .....	16.33
02 83 19 13-0050	EA	Electrical Devices, Chemical Stripping Of Lead Contaminated Material .....	46.69
02 83 19 13-0051	LF	Door Frames, Chemical Stripping Of Lead Contaminated Material .....	11.58
02 83 19 13-0052	SF	Wood Floors, Chemical Stripping Of Lead Contaminated Material .....	6.36
02 83 19 13-0053	SF	HVAC Grilles, Chemical Stripping Of Lead Contaminated Material .....	23.98
02 83 19 13-0054	SF	HVAC Grilles, Ornate, Chemical Stripping Of Lead Contaminated Material .....	28.60
02 83 19 13-0055	EA	Hinges, Chemical Stripping Of Lead Contaminated Material .....	15.01
02 83 19 13-0056	EA	Up To 6" Diameter Hangers, Chemical Stripping Of Lead Contaminated Material .....	18.49
02 83 19 13-0057	LF	Up To 2" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material .....	5.16
02 83 19 13-0058	LF	>2" To 4" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material .....	8.29
02 83 19 13-0059	LF	>4" To 8" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material .....	14.84
02 83 19 13-0060	LF	>8" To 12" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material .....	20.32
02 83 19 13-0061	LF	>12" To 16" Diameter Pipes and Conduit, Chemical Stripping Of Lead Contaminated Material .....	36.46
02 83 19 13-0062	SF	>16" Diameter Pipes, Chemical Stripping Of Lead Contaminated Material, SF Of Surface Area .....	10.89
02 83 19 13-0063	EA	Up To 12 SF Radiators, Chemical Stripping Of Lead Contaminated Material .....	216.65
02 83 19 13-0064	SF	Flat And Raised Panel Wood Shutters, Chemical Stripping Of Lead Contaminated Material .....	15.15
02 83 19 13-0065	SF	Louvered Wood Shutters, Chemical Stripping Of Lead Contaminated Material .....	16.59
02 83 19 13-0066	SF	Siding, Chemical Stripping Of Lead Contaminated Material .....	8.65
02 83 19 13-0067	SF	Soffit, Chemical Stripping Of Lead Contaminated Material .....	18.14
02 83 19 13-0068	SF	Flat Steel Surfaces, Chemical Stripping Of Lead Contaminated Material .....	8.35
02 83 19 13-0069	SF	Corrugated Steel, Chemical Stripping Of Lead Contaminated Material .....	9.48
02 83 19 13-0070	SF	Steel Beams and Columns, Chemical Stripping Of Lead Contaminated Material .....	9.45
02 83 19 13-0071	SF	Trusses, Chemical Stripping Of Lead Contaminated Material .....	13.39
02 83 19 13-0072	SF	Wood Surfaces, Chemical Stripping Of Lead Contaminated Material .....	9.45
02 83 19 13-0073	SF	Windows, One Side, 1/1 Light, Chemical Stripping Of Lead Contaminated Material .....	21.77
02 83 19 13-0074	SF	Windows, One Side, 2/2 Light, Chemical Stripping Of Lead Contaminated Material .....	23.84
02 83 19 13-0075	SF	Windows, One Side, 4/4 Light, Chemical Stripping Of Lead Contaminated Material .....	25.23
02 83 19 13-0076	SF	Windows, One Side, 6/6 Light, Chemical Stripping Of Lead Contaminated Material .....	26.63
02 83 19 13-0077	SF	Windows, One Side, 8/8 Light Chemical Stripping Of Lead Contaminated Material .....	28.02
02 83 19 13-0078	SF	Windows, One Side, 10/10 Light, Chemical Stripping Of Lead Contaminated Material .....	29.46
02 83 19 13-0079	SF	Windows, One Side, 12/12 light Chemical Stripping Of Lead Contaminated Material .....	30.81
02 83 19 13-0080	SF	Windows, One Side, 14/14 Light, Chemical Stripping Of Lead Contaminated Material .....	31.52
02 83 19 13-0081	SF	Windows, One Side, 16/16 Light Chemical Stripping Of Lead Contaminated Material .....	32.23
02 83 19 13-0082	SF	Windows, One Side, 20/20 Light, Chemical Stripping Of Lead Contaminated Material .....	32.91
02 83 19 13-0083	SF	Metal Stairs, Chemical Stripping Of Lead Contaminated Material .....	43.46
02 83 19 13-0084	LF	Metal Single Hand Rail, Chemical Stripping Of Lead Contaminated Material .....	7.54
02 83 19 13-0085	SF	Metal Railing And Posts, Chemical Stripping Of Lead Contaminated Material .....	22.09
		Note: The unit of measure "SF" is measured for 'Length x Height'. Work includes both sides of railing.	
02 83 19 13-0086	SF	Metal Picket Fence, Chemical Stripping Of Lead Contaminated Material .....	24.16

**02 83 19 13-0087**

**Demolish Lead Contaminated Material** (02 83 19 13)

Note: Includes waste handling, packing, all personnel blood work, lab test fees and monitoring. Industrial coatings often contain other hazardous ingredients in addition to or in place of lead. These might include, but are not be limited to, chromium, cadmium and mercury.

02 83 19 13-0088	SF	Demolish Ceiling Suspension System, Lead Contaminated Material .....	1.91
02 83 19 13-0089	SF	Demolish Suspended Ceiling System And Tile, Lead Contaminated Material .....	1.11
02 83 19 13-0090	SF	Demolish Acoustical Ceiling Tile, Lead Contaminated Material .....	0.71
02 83 19 13-0091	SF	Demolish Metal Pan Grid System, Lead Contaminated Material .....	1.11
02 83 19 13-0092	EA	Demolish Ceiling And Recessed Light Fixtures, Lead Contaminated Material .....	53.34
02 83 19 13-0093	EA	Demolish >2' x 4' Light Fixtures, Lead Contaminated Material .....	70.75
02 83 19 13-0094	SF	Demolish Non Load Bearing Partitions Of Plaster Or Stucco, Lath And Studs, Lead Contaminated Material .....	7.90
02 83 19 13-0095	SF	Demolish Non Load Bearing Partitions Of Gypsum Board And Studs, Lead Contaminated Material .....	4.43
02 83 19 13-0096	SF	Demolish Brick, Lead Contaminated Material .....	3.33
02 83 19 13-0097	SF	Demolish Concrete Block, Lead Contaminated Material .....	4.29
02 83 19 13-0098	SF	Demolish Tile, Lead Contaminated Material .....	3.23
02 83 19 13-0099	SF	Removal Of Lead Paint On Brick Or Concrete Block, Lead Contaminated Material .....	4.86
02 83 19 13-0100	IN	Drilling, Up To 1/2" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth .....	3.75
02 83 19 13-0101	IN	Drilling, >1/2" To 1" Diameter In Lead Paint/Asbestos Material Per Inch Of Depth .....	4.99
02 83 19 13-0102	SF	Demolish Balustrades And Railings, Lead Contaminated Material .....	5.53
02 83 19 13-0103	LF	Demolish Up To 6" Wide Baseboard, Lead Contaminated Material .....	1.44
02 83 19 13-0104	LF	Demolish >6" To 12" Wide Baseboard, Lead Contaminated Material .....	1.80
02 83 19 13-0105	LF	Demolish Base Shoe Molding, Lead Contaminated Material .....	1.17

**02 Existing Conditions****02 80 Facility Remediation****02 83 Lead Remediation**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 83 19 13-0106	SF	Demolish Concrete, Lead Contaminated Material	11.00
02 83 19 13-0107	LF	Demolish Cabinets, Lead Contaminated Material	25.63
02 83 19 13-0108	SF	Demolish Ceilings, Gypsum Board, Lead Contaminated Material	1.45
02 83 19 13-0109	SF	Demolish Up To 12" Diameter Columns, Lead Contaminated Material	14.20
02 83 19 13-0110	SF	Demolish Cornice, Lead Contaminated Material	1.88
02 83 19 13-0111	EA	Demolish Doors, Lead Contaminated Material	55.60
02 83 19 13-0112	LF	Demolish Door And Window Trim Or Frames, Lead Contaminated Material	1.70
02 83 19 13-0113	EA	Demolish Electrical Devices, Lead Contaminated Material	17.06
02 83 19 13-0114	LF	Demolish Up To 1" Diameter Electrical Conduit, Lead Contaminated Material	2.19
02 83 19 13-0115	LF	Demolish >1" To 2" Diameter Electrical Conduit, Lead Contaminated Material	3.64
02 83 19 13-0116	SF	Demolish Wood Floors, Lead Contaminated Material	2.63
02 83 19 13-0117	SF	Demolish Grilles, Lead Contaminated Material	3.09
02 83 19 13-0118	EA	Demolish Hinges, Lead Contaminated Material	6.21
02 83 19 13-0119	EA	Demolish Up To 6" Diameter Hangers, Lead Contaminated Material	13.32
02 83 19 13-0120	LF	Demolish Up To 2" Diameter Pipes, Lead Contaminated Material	5.46
02 83 19 13-0121	LF	Demolish >2" To 4" Diameter Pipes, Lead Contaminated Material	7.97
02 83 19 13-0122	LF	Demolish >4" To 8" Diameter Pipes, Lead Contaminated Material	12.04
02 83 19 13-0123	LF	Demolish >8" To 12" Diameter Pipes, Lead Contaminated Material	22.22
02 83 19 13-0124	EA	Demolish Radiators, Lead Contaminated Material	95.96
02 83 19 13-0125	EA	Demolish Shutters, Lead Contaminated Material	37.39
02 83 19 13-0126	SF	Demolish Siding, Lead Contaminated Material	1.49
02 83 19 13-0127	SF	Demolish Soffit, Lead Contaminated Material	1.27
02 83 19 13-0128	SF	Demolish Flat Steel Surfaces, Lead Contaminated Material	3.45
02 83 19 13-0129	SF	Demolish Steel Beams, Lead Contaminated Material	4.07
02 83 19 13-0130	SF	Demolish Trusses, Lead Contaminated Material	5.34
02 83 19 13-0131	SF	Demolish Walls, Wood, Lead Contaminated Material	3.95
02 83 19 13-0132	SF	Demolish Windows, Lead Contaminated Material	13.28
02 83 19 13-0133	SF	Demolish Metal Stair, Lead Contaminated Material	6.35
02 83 19 13-0134	LF	Demolish Single Metal Hand Rail, Lead Contaminated Material	4.67
02 83 19 13-0135	LF	Demolish Metal Railing And Posts, Lead Contaminated Material	7.63
02 83 19 13-0136	SF	Demolish Metal Picket Fence, Lead Contaminated Material	2.10
02 83 19 13-0137	SF	Demolish Plywood, Lead Contaminated Material	5.73
02 83 19 13-0138	SF	Demolish Planks (Various Sizes), Lead Contaminated Material	2.80
02 83 19 13-0139	EA	Demolish Metal Brackets Or Other Small Metal Shapes, Lead Contaminated Material	17.51
02 83 19 13-0140	SF	Demolish Ceramic Tile Block, Lead Contaminated Material	3.82
02 83 19 13-0141	LF	Demolish Metal Guard Rails, Lead Contaminated Material	10.51
02 83 19 13-0142	SF	Demolish Up To 100 SF Gypsum Wall Board, Lead Contaminated Material	5.61
02 83 19 13-0143	SF	Demolish >100 To 500 SF Gypsum Wall Board, Lead Contaminated Material	4.03
02 83 19 13-0144	SF	Demolish >500 To 2,500 SF Gypsum Wall Board, Lead Contaminated Material	3.15
02 83 19 13-0145	SF	Demolish >2,500 SF Gypsum Wall Board, Lead Contaminated Material	2.45
02 83 19 13-0146	SF	Demolish Up To 100 SF Plaster/Stucco, Lead Contaminated Material	17.51
02 83 19 13-0147	SF	Demolish >100 To 500 SF Plaster/Stucco, Lead Contaminated Material	12.45
02 83 19 13-0148	SF	Demolish >500 To 2,500 SF Plaster/Stucco, Lead Contaminated Material	9.34
02 83 19 13-0149	SF	Demolish >2,500 To 10,000 SF Plaster/Stucco, Lead Contaminated Material	7.00

**02 83 19 13-0150 Wet Sanding Of Lead Contaminated Material (02 83 19 13)**

02 83 19 13-0151	SF	Wet Sand/Scrape Of Lead Contaminated Material For Prep Before New Paint	1.52
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**02 83 19 13-0152 Lead Abatement Encapsulation (02 83 19 13)**

Note: Can also be used for asbestos contaminated encapsulation. Spray applied application unless task described otherwise.

02 83 19 13-0153	SF	Balustrades, Lead Abatement Encapsulation	4.69
02 83 19 13-0154	LF	Up To 6" Wide, Baseboard, Lead Abatement Encapsulation	5.53
02 83 19 13-0155	LF	>6" To 12" Wide, Baseboard, Lead Abatement Encapsulation	7.44
02 83 19 13-0156	SF	Brick, Concrete Block, Concrete, Lead Abatement Encapsulation	2.97
02 83 19 13-0157	SF	Ornate Cabinets, Lead Abatement Encapsulation	6.86
02 83 19 13-0158	SF	Simple Design Cabinets, Lead Abatement Encapsulation	5.56
02 83 19 13-0159	SF	Drywall Ceilings, Lead Abatement Encapsulation	1.80
02 83 19 13-0160	SF	Wood Ceilings, Lead Abatement Encapsulation	2.22
02 83 19 13-0161	SF	Acoustical And Popcorn Ceilings, Lead Abatement Encapsulation	2.05
02 83 19 13-0162	SF	Columns, Lead Abatement Encapsulation	3.61
02 83 19 13-0163	SF	Doors, Lead Abatement Encapsulation	8.07
02 83 19 13-0164	LF	Up To 2" Electrical Conduit, Lead Abatement Encapsulation	3.10
02 83 19 13-0165	SF	Picket Fence (Brush), Lead Abatement Encapsulation	2.10
02 83 19 13-0166	SF	Wood Floors (Roller), Lead Abatement Encapsulation	1.73
02 83 19 13-0167	SF	Grilles, Vents, Lead Abatement Encapsulation	5.08
02 83 19 13-0168	LF	Gutters And Downspouts, Lead Abatement Encapsulation	4.69
02 83 19 13-0169	EA	Hangers, Lead Abatement Encapsulation	40.99
02 83 19 13-0170	LF	Up To 4" Diameter Pipe (Brush), Lead Abatement Encapsulation	2.85
02 83 19 13-0171	LF	>4" To 8" Diameter Pipe (Brush), Lead Abatement Encapsulation	4.02
02 83 19 13-0172	LF	>8" To 12" Diameter Pipe (Brush), Lead Abatement Encapsulation	6.18
02 83 19 13-0173	LF	>12" To 16" Diameter Pipe (Brush), Lead Abatement Encapsulation	9.11
02 83 19 13-0174	EA	Radiators, Lead Abatement Encapsulation	172.13
02 83 19 13-0175	EA	Up To 6" Shutters, Lead Abatement Encapsulation	148.98
02 83 19 13-0176	SF	Siding, Lead Abatement Encapsulation	2.54
02 83 19 13-0177	SF	Up To 12" Soffit, Lead Abatement Encapsulation	3.61
02 83 19 13-0178	SF	Steel, Flat Surfaces And Tanks Up To 12", Lead Abatement Encapsulation	2.97
02 83 19 13-0179	SF	Steel Beams And Metal Decks, Lead Abatement Encapsulation	3.92
02 83 19 13-0180	SF	Trusses, Lead Abatement Encapsulation	3.92



<b>Existing Conditions</b>	<b>02</b>	<b>02</b>
<b>Facility Remediation</b>	<b>02 80</b>	
<b>Lead Remediation</b>	<b>02 83</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 83 19 13-0181 SF Drywall Walls, Lead Abatement Encapsulation.....	1.62	
02 83 19 13-0182 SF Wood Walls, Lead Abatement Encapsulation.....	1.99	
02 83 19 13-0183 EA Window Without Grille, Lead Abatement Encapsulation.....	148.45	
02 83 19 13-0184 EA Window With Grille, Lead Abatement Encapsulation.....	174.36	
02 83 19 13-0185 LF Frames And Trim, Lead Abatement Encapsulation.....	2.72	
02 83 19 13-0186 LF Steel Lintels, Lead Abatement Encapsulation.....	3.11	
<b>02 83 33 Removal and Disposal of Material Containing Lead (02 83)</b>		
<b>02 83 33 13 Lead-Based Paint Removal and Disposal (02 83 33)</b>		
<b>02 83 33 13-0001 Remove Loose Dirt And Debris Containing Lead (02 83 33 13)</b>		
02 83 33 13-0002 SF HEPA Vacuum And Wet Clean Lead Contaminated Area With Mild Detergent.....	0.23	
02 83 33 13-0003 SF HEPA Vacuum And Wet Clean Lead Contaminated Area With Tri-Sodium Phosphate.....	0.24	
02 83 33 13-0004 SF HEPA Vacuum And Shampoo Lead Contaminated Carpeting.....	1.11	
<b>02 84 Polychlorinate Biphenyl Remediation (02 80)</b>		
<b>02 84 16 Handling Of Lighting Ballasts and Lamps Containing PBCs and Mercury (02 84)</b>		
<b>02 84 16 00-0001 Removal Of TSCA-Exempt PCB And Non-PCB Ballasts From Demolished Fixtures (02 84 16)</b>		
Note: Includes removal of TSCA-exempt PCB and Non-PCB ballast from demolished lighting fixture and placing ballast in an approved container for recycling.		
02 84 16 00-0002 EA Removal Of TSCA-Exempt PCB And Non-PCB Ballast From A Demolished Fixture For Recycling.....	8.64	
<b>02 84 16 00-0003 Recycle TSCA-Exempt PCB And Non-PCB Ballasts (02 84 16)</b>		
Note: Non leaking ballasts. Includes containers, shipping costs and recycling fees. Excludes ballast removal.		
02 84 16 00-0004 EA Recycle Non-PCB Ballast Removed From Up To 4' Length Fixtures.....	0.93	
02 84 16 00-0005 EA Recycle Non-PCB Ballast Removed From >4' To 8' Length Fixtures.....	1.40	
02 84 16 00-0006 EA Recycle TSCA-Exempt PCB Ballast Removed From Up To 4' Length Fixtures.....	4.36	
02 84 16 00-0007 EA Recycle TSCA-Exempt PCB Ballast Removed From >4' To 8' Length Fixtures.....	9.97	
<b>02 84 16 00-0008 Disposal Of Leaking PCB And Non-PCB Ballasts (02 84 16)</b>		
Note: Disposal at an EPA approved facility. Includes containers, shipping costs and disposal fees. Excludes ballast removal.		
02 84 16 00-0009 EA Dispose Of Leaking Non-PCB Ballast Removed From Up To 4' Length Fixtures.....	2.34	
02 84 16 00-0010 EA Dispose Of Leaking Non-PCB Ballast Removed From >4' To 8' Length Fixtures.....	3.50	
02 84 16 00-0011 EA Dispose Of Leaking PCB Ballast Removed From Up To 4' Length Fixtures.....	6.54	
02 84 16 00-0012 EA Dispose Of Leaking PCB Ballast Removed From >4' To 8' Length Fixtures.....	14.95	
<b>02 84 33 Removal and Disposal of Polychlorinate Biphenyls (02 84)</b>		
<b>02 84 33 00-0001 Removal And Disposal Of Polychlorinate Biphenyls Oil Filled Transformers (02 84 33)</b>		
Note: Includes disposal in approved container, rigging, manifesting, hauling, etc.		
02 84 33 00-0002 EA Removal And Disposal Of Transformers 2.5/3.5 KVA, Non PCB.....	1,843.85	
Note: Includes disposal costs.		
02 84 33 00-0003 EA Removal And Disposal Of Transformers 20 KVA, Non PCB.....	2,851.62	
Note: Includes disposal costs.		
02 84 33 00-0004 EA Removal And Disposal Of Switch, Non PCB.....	897.74	
02 84 33 00-0005 EA Removal And Disposal Of Transformers 2.5/3.5 KVA, PCB.....	3,318.25	
Note: Includes disposal costs.		
02 84 33 00-0006 EA Removal And Disposal Of Switch, PCB.....	1,954.27	
02 84 33 00-0007 EA Removal And Disposal Of Transformers 20 KVA, PCB.....	5,161.33	
Note: Includes disposal costs.		
<b>02 87 Bio-Hazard Material Remediation (02 80)</b>		
Note: Tasks includes materials, equipment, mobilization, preparation, critical barriers (e.g. electrical outlets, registers, windows, etc.), signage, removal, clean-up, vacuuming, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of the contaminated material in accordance with EPA and local regulations. The quantity of the entire project, not a particular work area, is to be used in determining which tasks apply. There is a task with a unit of measure of EA for a quantity of less than 10 SF, followed by a series of tasks for additional quantities. For those tasks the contractor will be paid the first task with a unit of measure of EA, plus each additional task in sequence to arrive at the total quantity for the entire project, not a particular work area.		
<b>02 87 13 Mold Remediation (02 87)</b>		
Note: All unit pricing in this section includes: materials, equipment, mobilization, preparation, removal, clean-up, vacuuming, transportation for up to 25 miles, disposal, monitoring (personnel and air), sampling/testing, fees, documentation and other associated costs necessary for the complete removal and disposal of mold in accordance with EPA, OSHA, IICRC standards and local regulations. Where types of Mold are listed by quantity, the quantity of the entire project, not a particular work area of building, is to be used in determining which task applies. See CSI section 01 74 19 00-0037 for hauling in excess of 25 miles to transfer or disposal site, 02 81 00 00-0000 for hauling in excess of 25 miles to transfer or disposal site, 02 89 00 00-0002 for solid isolation barriers, 02 89 00 00-0008 for plastic sheeting for containment construction, 02 89 00 00-0015 for decontamination chambers.		
<b>02 87 13 33 Removal and Disposal of Materials with Mold (02 87 13)</b>		



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 87 13 33-0001		<b>Minimum Charge For Mold Remediation</b> (02 87 13 33)	
02 87 13 33-0002	EA	Mold Remediation Minimum Show Up Charge .....	770.11
		Note: For projects where the total mold remediation charge is less than the minimum charge, use task "Minimum Charge For Mold Remediation" exclusively. Task "Minimum Charge For Mold Remediation" should not be used in conjunction with any other tasks in this section. Includes air sample and personal air monitoring.	
02 87 13 33-0003		<b>Pipe And Pipe Fittings Insulation, Mold Abatement And Disposal</b> (02 87 13 33)	
		Note: Treat fittings as additional lf of insulation.	
02 87 13 33-0004		<b>Pipe Insulation, Mold Abatement And Disposal</b> (02 87 13 33-0003)	
		Note: Diameter is outer size of insulation.	
02 87 13 33-0005		<b>Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal</b> (02 87 13 33-0004)	
		Note: Excludes encased fittings.	
02 87 13 33-0006	LF	Up To 25 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	26.89
02 87 13 33-0007	LF	>25 To 250 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	20.06
02 87 13 33-0008	LF	>250 To 500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	15.04
02 87 13 33-0009	LF	>500 To 2,500 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	11.29
02 87 13 33-0010	LF	>2,500 To 10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	8.46
02 87 13 33-0011	LF	>10,000 LF, Up To 6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	7.36
02 87 13 33-0012		<b>&gt;6" Diameter Pipe Insulation, Mold Abatement And Disposal</b> (02 87 13 33-0004)	
02 87 13 33-0013	LF	Up To 25 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	30.92
02 87 13 33-0014	LF	>25 To 250 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	23.07
02 87 13 33-0015	LF	>250 To 500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	17.30
02 87 13 33-0016	LF	>500 To 2,500 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	12.97
02 87 13 33-0017	LF	>2,500 To 10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	9.73
02 87 13 33-0018	LF	>10,000 LF, >6" Diameter Pipe Insulation, Mold Abatement And Disposal .....	8.47
02 87 13 33-0019		<b>Thermal Insulation, Mold Abatement And Disposal</b> (02 87 13 33)	
02 87 13 33-0020		<b>Other Thermal Insulation, Up To 3" Thick, Mold Abatement And Disposal</b> (02 87 13 33-0019)	
02 87 13 33-0021	SF	Up To 50 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal .....	16.21
02 87 13 33-0022	SF	>50 To 500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal .....	11.52
02 87 13 33-0023	SF	>500 To 2,500 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal .....	8.65
02 87 13 33-0024	SF	>2,500 To 10,000 SF, Up To 3" Thick Other Thermal Insulation, Mold Abatement And Disposal .....	6.49
02 87 13 33-0025	SF	>10,000 SF, Up To 3" Thick Thermal Insulation, Mold Abatement And Disposal .....	4.97
02 87 13 33-0026		<b>Surfacing Material, Mold Abatement And Disposal</b> (02 87 13 33)	
		Note: e.g. fireproofing, acoustical plaster, etc.	
02 87 13 33-0027		<b>Stucco, Mold Abatement And Disposal</b> (02 87 13 33-0026)	
		Note: Remove surface coat from brown coat or remove entire assembly, including lath.	
02 87 13 33-0028	SF	Up To 100 SF, Stucco, Mold Abatement And Disposal .....	16.21
02 87 13 33-0029	SF	>100 To 500 SF, Stucco, Mold Abatement And Disposal .....	11.52
02 87 13 33-0030	SF	>500 To 2,500 SF, Stucco, Mold Abatement And Disposal .....	8.65
02 87 13 33-0031	SF	>2,500 To 10,000 SF, Stucco, Mold Abatement And Disposal .....	6.49
02 87 13 33-0032	SF	>10,000 SF, Stucco, Mold Abatement And Disposal .....	4.88
02 87 13 33-0033		<b>Acoustical Plaster, Mold Abatement And Disposal</b> (02 87 13 33-0026)	
		Note: Remove surface coat from brown coat or remove entire assembly, including lath.	
02 87 13 33-0034	SF	Up To 100 SF, Acoustical Plaster, Mold Abatement And Disposal .....	16.21
02 87 13 33-0035	SF	>100 To 500 SF, Acoustical Plaster, Mold Abatement And Disposal .....	11.52
02 87 13 33-0036	SF	>500 To 2,500 SF, Acoustical Plaster, Mold Abatement And Disposal .....	8.65
02 87 13 33-0037	SF	>2,500 To 10,000 SF, Acoustical Plaster, Mold Abatement And Disposal .....	6.49
02 87 13 33-0038	SF	>10,000 SF, Acoustical Plaster, Mold Abatement And Disposal .....	4.88
02 87 13 33-0039		<b>Gypsum Board, Mold Abatement And Disposal</b> (02 87 13 33-0026)	
02 87 13 33-0040	SF	Up To 100 SF, Gypsum Board, Mold Abatement And Disposal .....	5.19
02 87 13 33-0041	SF	>100 To 500 SF, Gypsum Board, Mold Abatement And Disposal .....	3.73
02 87 13 33-0042	SF	>500 To 2,500 SF, Gypsum Board, Mold Abatement And Disposal .....	2.92
02 87 13 33-0043	SF	>2,500 To 10,000 SF, Gypsum Board, Mold Abatement And Disposal .....	2.27
02 87 13 33-0044	SF	>10,000 SF, Gypsum Board, Mold Abatement And Disposal .....	1.62
02 87 13 33-0045		<b>Fireproofing, Mold Abatement And Disposal</b> (02 87 13 33-0026)	
		Note: Exposed surface area, includes associated overspray.	
02 87 13 33-0046	SF	Up To 100 SF, Fireproofing, Mold Abatement And Disposal .....	16.21
02 87 13 33-0047	SF	>100 To 500 SF, Fireproofing, Mold Abatement And Disposal .....	15.89
02 87 13 33-0048	SF	>500 To 2,500 SF, Fireproofing, Mold Abatement And Disposal .....	11.93
02 87 13 33-0049	SF	>2,500 To 10,000 SF, Fireproofing, Mold Abatement And Disposal .....	8.95
02 87 13 33-0050	SF	>10,000 SF, Fireproofing, Mold Abatement And Disposal .....	6.71
02 87 13 33-0051		<b>Flooring, Mold Abatement And Disposal</b> (02 87 13 33)	
		Note: Includes cove base.	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0052				Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0051)		
02 87 13 33-0053				Floor Tile Or Linoleum, Mold Abatement And Disposal (02 87 13 33-0052)		
				Note: Single layer or first of multiple layers.		
02 87 13 33-0054	SF			Up To 100 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal .....	5.90	
				<i>For Each Additional Layer, Add</i> .....	1.48	
02 87 13 33-0055	SF			>100 To 500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal .....	3.71	
				<i>For Each Additional Layer, Add</i> .....	0.93	
02 87 13 33-0056	SF			>500 To 2,500 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	1.99	
				<i>For Each Additional Layer, Add</i> .....	0.50	
02 87 13 33-0057	SF			>2,500 To 10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal.....	1.08	
				<i>For Each Additional Layer, Add</i> .....	0.27	
02 87 13 33-0058	SF			>10,000 SF, Single Layer Or First Of Multiple Layers, Floor Tile Or Linoleum, Mold Abatement And Disposal .....	0.79	
				<i>For Each Additional Layer, Add</i> .....	0.20	
02 87 13 33-0059				Carpet, Mold Abatement And Disposal (02 87 13 33-0051)		
02 87 13 33-0060				Carpet, Glue Down, Mold Abatement And Disposal (02 87 13 33-0059)		
02 87 13 33-0061	SF			Up To 100 SF, Carpet, Glue Down, Mold Abatement And Disposal .....	4.72	
02 87 13 33-0062	SF			>100 To 500 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	3.05	
02 87 13 33-0063	SF			>500 To 2,500 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	1.85	
02 87 13 33-0064	SF			>2,500 To 10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	1.18	
02 87 13 33-0065	SF			>10,000 SF, Carpet, Glue Down, Mold Abatement And Disposal.....	0.87	
02 87 13 33-0066				Carpet, Padded With Tack Strips, Mold Abatement And Disposal (02 87 13 33-0059)		
02 87 13 33-0067	SF			Up To 100 SF, Carpet And Pad, Mold Abatement And Disposal .....	5.19	
				Note: Includes tack strips.		
02 87 13 33-0068	SF			>100 To 500 SF, Carpet And Pad, Mold Abatement And Disposal .....	3.46	
				Note: Includes tack strips.		
02 87 13 33-0069	SF			>500 To 2,500 SF, Carpet And Pad, Mold Abatement And Disposal .....	2.47	
				Note: Includes tack strips.		
02 87 13 33-0070	SF			>2,500 To 10,000 SF, Carpet And Pad, Mold Abatement And Disposal.....	1.92	
				Note: Includes tack strips.		
02 87 13 33-0071	SF			>10,000 SF, Carpet And Pad, Mold Abatement And Disposal.....	1.44	
				Note: Includes tack strips.		
02 87 13 33-0072				Subflooring, Mold Abatement And Disposal (02 87 13 33-0051)		
02 87 13 33-0073	SF			Up To 100 SF, Subflooring, Mold Abatement And Disposal .....	6.86	
02 87 13 33-0074	SF			>100 To 500 SF, Subflooring, Mold Abatement And Disposal.....	4.29	
02 87 13 33-0075	SF			>500 To 2,500 SF, Subflooring, Mold Abatement And Disposal .....	2.68	
02 87 13 33-0076	SF			>2,500 To 10,000 SF, Subflooring, Mold Abatement And Disposal.....	1.55	
02 87 13 33-0077	SF			>10,000 SF, Subflooring, Mold Abatement And Disposal.....	0.92	
02 87 13 33-0078				Siding, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0079				Interior Paneling, Mold Abatement And Disposal (02 87 13 33-0078)		
				Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0080	SF			Up To 100 SF, Interior Paneling, Mold Abatement And Disposal .....	5.19	
				Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0081	SF			>100 To 500 SF, Interior Paneling, Mold Abatement And Disposal.....	3.69	
				Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0082	SF			>500 To 2,500 SF, Interior Paneling, Mold Abatement And Disposal.....	2.54	
				Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0083	SF			>2,500 To 10,000 SF, Interior Paneling, Mold Abatement And Disposal.....	1.41	
				Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0084	SF			>10,000 SF, Interior Paneling, Mold Abatement And Disposal .....	1.04	
				Note: Includes detachment of mounted objects before removal.		
02 87 13 33-0085				Exterior Siding, Mold Abatement And Disposal (02 87 13 33-0078)		
02 87 13 33-0086	SF			Up To 100 SF, Exterior Siding Board, Mold Abatement And Disposal.....	7.20	
02 87 13 33-0087	SF			>100 To 500 SF, Exterior Siding Board, Mold Abatement And Disposal .....	4.63	
02 87 13 33-0088	SF			>500 To 2,500 SF, Exterior Siding Board, Mold Abatement And Disposal.....	3.16	
02 87 13 33-0089	SF			>2,500 To 10,000 SF, Exterior Siding Board, Mold Abatement And Disposal .....	2.08	
02 87 13 33-0090	SF			>10,000 SF, Exterior Siding Board, Mold Abatement And Disposal .....	1.85	
02 87 13 33-0091				Contaminated Debris, Mold Abatement And Disposal (02 87 13 33)		
02 87 13 33-0092				Contaminated Debris, Mold Abatement And Disposal (02 87 13 33-0091)		
02 87 13 33-0093	CF			Up To 10 CF, Contaminated Debris, Mold Abatement And Disposal.....	29.91	
02 87 13 33-0094	CF			>10 To 100 CF, Contaminated Debris, Mold Abatement And Disposal .....	17.94	
02 87 13 33-0095	CF			>100 To 250 CF, Contaminated Debris, Mold Abatement And Disposal .....	11.96	
02 87 13 33-0096	CF			>250 To 500 CF, Contaminated Debris, Mold Abatement And Disposal .....	8.97	
02 87 13 33-0097	CF			>500 To 2,500 CF, Contaminated Debris, Mold Abatement And Disposal .....	7.18	
02 87 13 33-0098	CF			>2,500 To 10,000 CF, Contaminated Debris, Mold Abatement And Disposal .....	3.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 87 13 33-0099 CF >10,000 CF, Contaminated Debris, Mold Abatement And Disposal .....	3.53	
<b>02 87 13 33-0100 Other Mold Containing Materials, Mold Abatement And Disposal (02 87 13 33)</b>		
<b>02 87 13 33-0101 Wood Studs, Mold Abatement And Disposal (02 87 13 33-0100)</b>		
Note: 2" x 4" or 2" x 6" exposed studs in walls. Excludes surfacing material.		
02 87 13 33-0102 LF Up To 100 LF, Wood Studs, Mold Abatement And Disposal .....	2.91	
02 87 13 33-0103 LF >100 To 500 LF, Wood Studs, Mold Abatement And Disposal .....	2.09	
02 87 13 33-0104 LF >500 To 2,500 LF, Wood Studs, Mold Abatement And Disposal .....	1.53	
02 87 13 33-0105 LF >2,500 To 10,000 LF, Wood Studs, Mold Abatement And Disposal .....	1.18	
02 87 13 33-0106 LF >10,000 LF, Wood Studs, Mold Abatement And Disposal .....	0.87	
<b>02 87 13 33-0107 Ceiling Tile, Mold Abatement And Disposal (02 87 13 33-0100)</b>		
Note: e.g. grid, spline, or glued on; 12" x 12" to 2' x 4'.		
02 87 13 33-0108 SF Up To 200 SF, Ceiling Tile, Mold Abatement And Disposal .....	8.65	
02 87 13 33-0109 SF >200 To 1,000 SF, Ceiling Tile, Mold Abatement And Disposal .....	6.49	
02 87 13 33-0110 SF >1,000 To 2,500 SF, Ceiling Tile, Mold Abatement And Disposal .....	2.96	
02 87 13 33-0111 SF >2,500 To 10,000 SF, Ceiling Tile, Mold Abatement And Disposal .....	2.08	
02 87 13 33-0112 SF >10,000 SF, Ceiling Tile, Mold Abatement And Disposal .....	1.85	
<b>02 87 13 33-0113 Caulking, Mold Abatement And Disposal (02 87 13 33-0100)</b>		
02 87 13 33-0114 LF Up To 10 LF, Caulking, Mold Abatement And Disposal .....	3.05	
02 87 13 33-0115 LF >10 To 50 LF, Caulking, Mold Abatement And Disposal .....	2.59	
02 87 13 33-0116 LF >50 To 100 LF, Caulking, Mold Abatement And Disposal .....	1.85	
02 87 13 33-0117 LF >100 To 250 LF, Caulking, Mold Abatement And Disposal .....	1.40	
02 87 13 33-0118 LF >250 To 1,000 LF, Caulking, Mold Abatement And Disposal .....	1.04	
02 87 13 33-0119 LF >1,000 To 2,500 LF, Caulking, Mold Abatement And Disposal .....	0.84	
02 87 13 33-0120 LF >2,500 LF, Caulking, Mold Abatement And Disposal .....	0.72	
<b>02 87 13 33-0121 Wipe Down Walls, Ceilings And Floors (02 87 13 33-0100)</b>		
02 87 13 33-0122 CSF Wipe Down Floors With Mild Bleach Solution .....	14.41	
02 87 13 33-0123 CSF Wipe Down Walls With Mild Bleach Solution .....	16.96	
02 87 13 33-0124 CSF Wipe Down Ceilings With Mild Bleach Solution .....	19.29	
02 87 13 33-0125 CSF Wipe Down Countertops With Mild Bleach Solution .....	15.73	
02 87 13 33-0126 CSF Wipe Down Other Surfaces With Mild Bleach Solution .....	19.95	
<b>02 87 13 33-0127 Cabinets (02 87 13 33-0100)</b>		
02 87 13 33-0128 LF Up To 20 LF, Base Cabinet, Mold Abatement And Disposal .....	53.23	
02 87 13 33-0129 LF >20 LF, Base Cabinet, Mold Abatement And Disposal .....	37.57	
02 87 13 33-0130 LF Up To 20 LF, Wall Cabinet, Mold Abatement And Disposal .....	46.96	
02 87 13 33-0131 LF >20 LF, Wall Cabinet, Mold Abatement And Disposal .....	31.31	
<b>02 87 16 Excrement Removal (02 87)</b>		
<b>02 87 16 13 Bird Excrement Removal (02 87 16)</b>		
<b>02 87 16 13-0001 Bird Waste Removal (02 87 16 13)</b>		
Note: In addition to items listed the Bio-Hazard Material Remediation note above, tasks include wetting agents and disinfection of contaminated surfaces.		
02 87 16 13-0002 EA Up To 10 SF Bird Waste Removal, Up To 3" Thickness .....	518.79	
For Work In Restricted Working Space, Add	155.64	
02 87 16 13-0003 SF >10 To 500 SF Bird Waste Removal, Up To 3" Thickness .....	8.65	
For Work In Restricted Working Space, Add	2.60	
02 87 16 13-0004 SF >500 To 2,500 SF Bird Waste Removal, Up To 3" Thickness .....	7.86	
For Work In Restricted Working Space, Add	2.36	
02 87 16 13-0005 SF >2,500 To 10,000 SF Bird Waste Removal, Up To 3" Thickness .....	7.15	
For Work In Restricted Working Space, Add	2.15	
02 87 16 13-0006 SF >10,000 SF Bird Waste Removal, Up To 3" Thickness .....	6.50	
For Work In Restricted Working Space, Add	1.95	
<b>02 89 Hazmat Ancillary Tasks And Support (02 89)</b>		
<b>02 89 00 00-0001 Barriers And Protection (02 89)</b>		
Note: Includes removal and disposal after use.		
<b>02 89 00 00-0002 Isolation Barriers (02 89 00 00-0001)</b>		
See CSI section 01 56 16 00-0030 for temporary stud walls.		
<b>02 89 00 00-0003 Cleaning Surfaces (02 89 00 00-0001)</b>		
Note: Other surfaces outside contamination area but not contaminated by, or part of removal.		
02 89 00 00-0004 SF Up To 100 SF, Clean Asbestos Surface .....	1.26	
02 89 00 00-0005 SF >100 To 500 SF, Clean Asbestos Surface .....	0.89	
02 89 00 00-0006 SF >500 To 1,000 SF, Clean Asbestos Surface .....	0.57	
02 89 00 00-0007 SF >1,000 SF, Clean Asbestos Surface .....	0.44	



<b>Existing Conditions</b>	<b>02</b>
<b>Facility Remediation</b>	<b>02 80</b>
<b>Hazmat Ancillary Tasks And Support</b>	<b>02 89</b>

02

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<b>02 89 00 00-0008</b>	<b>Hazmat Containment Construction</b> <small>(02 89 00 00-0001)</small>		
02 89 00 00-0009	SF 6 Mil Plastic Sheeting, Applied To Floors, Hazmat Containment Construction .....	0.30	
02 89 00 00-0010	SF 6 Mil Plastic Sheeting, Applied To Walls, Hazmat Containment Construction .....	0.40	
02 89 00 00-0011	SF 6 Mil Plastic Sheeting, Applied To Ceilings, Hazmat Containment Construction .....	0.54	
02 89 00 00-0012	SF 6 Mil Plastic Fire Retardant, Anti Static Sheeting, Applied To Floors, Hazmat Containment Construction .....	0.53	
02 89 00 00-0013	SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Walls, Hazmat Containment Construction.....	0.69	
02 89 00 00-0014	SF 6 Mil Plastic Fire Retardant, Anti Static Retardant Sheeting, Applied To Ceilings, Hazmat Containment Construction .....	0.92	

<b>02 89 00 00-0015</b>	<b>Decontamination Chambers</b> <small>(02 89)</small>		
	Note: Includes removal after use.		
02 89 00 00-0016	EA Portable Personnel Decontamination Wash Facility (3 Stage) .....	656.41	
	Note: Includes connection to negative air system.		
	<i>For Dismantling And Relocation To A Different Area, Add</i>	418.80	
02 89 00 00-0017	EA Portable Personnel Decontamination Wash Facility (5 Stage) .....	776.40	
	Note: Includes connection to negative air system.		
	<i>For Dismantling And Relocation To A Different Area, Add</i>	499.52	
02 89 00 00-0018	EA Portable Waste Decontamination Unit.....	423.29	
	Note: Includes connection to negative air system.		
	<i>For Dismantling And Relocation To A Different Area, Add</i>	304.49	

**02 90 Disaster Recovery** (02)

Note: The tasks in this division are only to be used when specifically requested by the Owner and are not to be combined with tasks from other divisions of this or other Construction Task Catalogs® unless specifically requested by the Owner.

**02 90 50 Cleaning And Emergency Clean-up** (02 90)

<b>02 90 50 00-0001</b>	<b>Non-Mold Contaminated Wet Material Removal</b> <small>(02 90 50)</small>		
	Note: For materials that do not require mold abatement.		
02 90 50 00-0002	SY Wet Broadloom Carpet Removal .....	7.70	
02 90 50 00-0003	SY Wet Carpet Tile Removal.....	1.87	
02 90 50 00-0004	SF Wet Batt Insulation Removal.....	0.16	
02 90 50 00-0005	SF Wet Ceiling Tile Removal.....	0.19	
02 90 50 00-0006	SF Single Layer, Wet Gypsum Board Removal.....	0.18	
02 90 50 00-0007	SF Double Layer, Wet Gypsum Board Removal .....	0.29	

<b>02 90 50 00-0008</b>	<b>Cleaning</b> <small>(02 90 50)</small>		
	Note: Use "Light Clean" when soot or dust is barely evident. Use "Medium Clean" when paint color can be seen through the soot or dust. Use "Heavy Clean" when paint color cannot be seen. Includes all man power, equipment and expendables required		

<b>02 90 50 00-0009</b>	<b>Clean Furnishings</b> <small>(02 90 50 00-0008)</small>		
02 90 50 00-0010	EA Office Equipment, Exterior Wipe.....	27.18	
	<i>For Medium Clean, Add</i>	11.42	
	<i>For Heavy Clean, Add</i>	35.33	
02 90 50 00-0011	SF Bookcase (Per SF Of Face Area), Light Clean .....	1.51	
	<i>For Medium Clean, Add</i>	0.63	
	<i>For Heavy Clean, Add</i>	1.96	
02 90 50 00-0012	LF Shelving, Light Clean.....	2.72	
	<i>For Medium Clean, Add</i>	1.14	
	<i>For Heavy Clean, Add</i>	3.54	
02 90 50 00-0013	EA Plastic Or Metal Chair, Light Clean.....	7.85	
	<i>For Medium Clean, Add</i>	3.30	
	<i>For Heavy Clean, Add</i>	10.21	
02 90 50 00-0014	EA Upholstered Chair, Light Clean.....	25.37	
	<i>For Medium Clean, Add</i>	10.66	
	<i>For Heavy Clean, Add</i>	32.98	
02 90 50 00-0015	EA Upholstered Sofa, Light Clean.....	156.47	
	<i>For Medium Clean, Add</i>	65.72	
	<i>For Heavy Clean, Add</i>	203.41	
02 90 50 00-0016	EA Desk, Light Clean .....	32.02	
	<i>For Medium Clean, Add</i>	13.45	
	<i>For Heavy Clean, Add</i>	41.63	
02 90 50 00-0017	EA Table, Light Clean.....	30.21	
	<i>For Medium Clean, Add</i>	12.69	
	<i>For Heavy Clean, Add</i>	39.27	
02 90 50 00-0018	EA Two Drawer File Cabinet, Light Clean .....	6.62	
	<i>For Medium Clean, Add</i>	2.78	
	<i>For Heavy Clean, Add</i>	8.61	
02 90 50 00-0019	EA Four Drawer File Cabinet, Light Clean.....	8.48	
	<i>For Medium Clean, Add</i>	3.56	
	<i>For Heavy Clean, Add</i>	11.02	
02 90 50 00-0020	LF Base Cabinet, Exterior Wipe, Light Clean.....	6.95	
	<i>For Medium Clean, Add</i>	2.92	
	<i>For Heavy Clean, Add</i>	9.04	
02 90 50 00-0021	LF Base Cabinet, Exterior And Interior Wipe, Light Clean .....	13.59	
	<i>For Medium Clean, Add</i>	5.71	
	<i>For Heavy Clean, Add</i>	17.67	

**02 Existing Conditions****02 90 Disaster Recovery****02 90 50 Cleaning And Emergency Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0022 LF Wall Cabinet, Exterior Wipe, Light Clean.....	6.95	
For Medium Clean, Add	2.92	
For Heavy Clean, Add	9.04	
02 90 50 00-0023 LF Wall Cabinet, Exterior And Interior Wipe, Light Clean.....	12.09	
For Medium Clean, Add	5.08	
For Heavy Clean, Add	15.72	
02 90 50 00-0024 EA Picture Frame, Glass And Back, Light Clean.....	2.90	
For Medium Clean, Add	1.22	
For Heavy Clean, Add	3.77	
<b>02 90 50 00-0025 Clean Hard Surfaces (02 90 50 00-0008)</b>		
02 90 50 00-0026 LF Wood, Vinyl Or Rubber Baseboard, Light Clean.....	0.40	
For Medium Clean, Add	0.17	
For Heavy Clean, Add	0.52	
02 90 50 00-0027 EA Door And Hardware (Per Side), Light Clean.....	5.14	
For Medium Clean, Add	2.16	
For Heavy Clean, Add	6.68	
02 90 50 00-0028 EA Detailed Door And Hardware (Per Side), Light Clean.....	5.83	
For Medium Clean, Add	2.45	
For Heavy Clean, Add	7.58	
02 90 50 00-0029 SF Overhead Door, Light Clean.....	0.41	
For Medium Clean, Add	0.17	
For Heavy Clean, Add	0.53	
02 90 50 00-0030 SF Mirror, Light Clean.....	0.30	
For Medium Clean, Add	0.13	
For Heavy Clean, Add	0.39	
02 90 50 00-0031 SF Window, Light Clean.....	0.89	
For Medium Clean, Add	0.37	
For Heavy Clean, Add	1.16	
02 90 50 00-0032 LF Handrail, Light Clean.....	0.79	
For Medium Clean, Add	0.33	
For Heavy Clean, Add	1.03	
02 90 50 00-0033 LF Bumper Rail, Light Clean.....	0.42	
For Medium Clean, Add	0.18	
For Heavy Clean, Add	0.55	
02 90 50 00-0034 SF Hard Floor, Light Clean.....	0.35	
For Medium Clean, Add	0.15	
For Heavy Clean, Add	0.46	
02 90 50 00-0035 SF Carpet, Light Clean.....	0.36	
For Medium Clean, Add	0.15	
For Heavy Clean, Add	0.47	
02 90 50 00-0036 SF Hard Ceiling, Light Clean.....	0.28	
For Medium Clean, Add	0.12	
For Heavy Clean, Add	0.36	
02 90 50 00-0037 SF Suspended Ceiling, Tile And Grid, Light Clean.....	0.30	
For Medium Clean, Add	0.13	
For Heavy Clean, Add	0.39	
02 90 50 00-0038 SF Ceramic Tile Wall, Light Clean.....	0.25	
For Medium Clean, Add	0.11	
For Heavy Clean, Add	0.33	
02 90 50 00-0039 SF Wall, Light Clean.....	0.18	
For Medium Clean, Add	0.08	
For Heavy Clean, Add	0.23	
02 90 50 00-0040 SF Masonry Wall, Light Clean.....	0.25	
For Medium Clean, Add	0.11	
For Heavy Clean, Add	0.33	
02 90 50 00-0041 EA Up To 24 SF Area Rug, Off-Site Cleaning, Light Clean.....	63.72	
Note: Includes removal from site, cleaning, and return.		
For Medium Clean, Add	26.76	
For Heavy Clean, Add	82.84	
02 90 50 00-0042 EA >24 To 96 SF Area Rug, Off-Site Cleaning, Light Clean.....	79.64	
Note: Includes removal from site, cleaning, and return.		
For Medium Clean, Add	33.45	
For Heavy Clean, Add	103.53	
02 90 50 00-0043 EA >96 To 140 SF Area Rug, Off-Site Cleaning, Light Clean.....	95.57	
Note: Includes removal from site, cleaning, and return.		
For Medium Clean, Add	40.14	
For Heavy Clean, Add	124.24	
02 90 50 00-0044 EA >140 To 216 SF Area Rug, Off-Site Cleaning, Light Clean.....	111.50	
For Medium Clean, Add	46.83	
For Heavy Clean, Add	144.95	
<b>02 90 50 00-0045 Clean Window Treatments (02 90 50 00-0008)</b>		
02 90 50 00-0046 SF Window Blind, Light Clean.....	0.69	
For Medium Clean, Add	0.29	
For Heavy Clean, Add	0.90	
02 90 50 00-0047 EA Up To 6' Long Drapery (Per Pleat), Light Clean.....	1.41	
For Medium Clean, Add	0.59	
For Heavy Clean, Add	1.83	
02 90 50 00-0048 EA Up To 6' Long Lined Drapery (Per Pleat), Light Clean.....	1.62	
For Medium Clean, Add	0.68	
For Heavy Clean, Add	2.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0049 EA >6' To 8' Drapery (Per Pleat), Light Clean .....	1.49	
<i>For Medium Clean, Add</i>	0.63	
<i>For Heavy Clean, Add</i>	1.94	
02 90 50 00-0050 EA >6' To 8' Lined Drapery (Per Pleat), Light Clean .....	1.71	
<i>For Medium Clean, Add</i>	0.72	
<i>For Heavy Clean, Add</i>	2.22	
02 90 50 00-0051 EA >8' To 10' Drapery (Per Pleat), Light Clean .....	1.82	
<i>For Medium Clean, Add</i>	0.76	
<i>For Heavy Clean, Add</i>	2.37	
02 90 50 00-0052 EA >8' To 10' Lined Drapery (Per Pleat), Light Clean .....	2.10	
<i>For Medium Clean, Add</i>	0.88	
<i>For Heavy Clean, Add</i>	2.73	
<b>02 90 50 00-0053 Clean Appliances</b> <small>(02 90 50 00-0008)</small>		
02 90 50 00-0054 EA Microwave Oven, Outside, Light Clean .....	12.52	
<i>For Medium Clean, Add</i>	5.26	
<i>For Heavy Clean, Add</i>	16.28	
02 90 50 00-0055 EA Refrigerator, Outside, Light Clean .....	29.50	
<i>For Medium Clean, Add</i>	12.39	
<i>For Heavy Clean, Add</i>	38.35	
02 90 50 00-0056 EA Range, Outside, Light Clean .....	25.49	
<i>For Medium Clean, Add</i>	10.71	
<i>For Heavy Clean, Add</i>	33.14	
<b>02 90 50 00-0057 Clean Plumbing</b> <small>(02 90 50 00-0008)</small>		
02 90 50 00-0058 EA Water Heater, Light Clean .....	18.12	
<i>For Medium Clean, Add</i>	7.61	
<i>For Heavy Clean, Add</i>	23.56	
02 90 50 00-0059 EA Plumbing Fixture, Light Clean .....	18.30	
<i>For Medium Clean, Add</i>	7.69	
<i>For Heavy Clean, Add</i>	23.79	
02 90 50 00-0060 EA Restroom Accessory, Light Clean .....	8.39	
<i>For Medium Clean, Add</i>	3.52	
<i>For Heavy Clean, Add</i>	10.91	
<b>02 90 50 00-0061 Clean HVAC</b> <small>(02 90 50 00-0008)</small>		
02 90 50 00-0062 LF Baseboard Heater, Light Clean .....	5.41	
<i>For Medium Clean, Add</i>	2.27	
<i>For Heavy Clean, Add</i>	7.03	
02 90 50 00-0063 LF Ductwork, Exterior Wipe, Light Clean .....	15.10	
<i>For Medium Clean, Add</i>	6.34	
<i>For Heavy Clean, Add</i>	19.63	
02 90 50 00-0064 EA Ductwork, Interior (Per Grille/Register), Light Clean .....	58.00	
<i>For Medium Clean, Add</i>	24.36	
<i>For Heavy Clean, Add</i>	75.40	
02 90 50 00-0065 EA Grille/Register, Light Clean .....	5.43	
<i>For Medium Clean, Add</i>	2.28	
<i>For Heavy Clean, Add</i>	7.06	
02 90 50 00-0066 EA Air Handling Unit, Exterior Wipe, Light Clean .....	37.66	
<i>For Medium Clean, Add</i>	15.82	
<i>For Heavy Clean, Add</i>	48.96	
02 90 50 00-0067 EA Furnace, Exterior Wipe, Light Clean .....	33.53	
<i>For Medium Clean, Add</i>	14.08	
<i>For Heavy Clean, Add</i>	43.59	
<b>02 90 50 00-0068 Clean Electrical</b> <small>(02 90 50 00-0008)</small>		
02 90 50 00-0069 EA Electric Fan, Light Clean .....	22.36	
<i>For Medium Clean, Add</i>	9.39	
<i>For Heavy Clean, Add</i>	29.07	
02 90 50 00-0070 EA Ceiling Fan, Light Clean .....	24.17	
<i>For Medium Clean, Add</i>	10.15	
<i>For Heavy Clean, Add</i>	31.42	
02 90 50 00-0071 EA Ceiling Fan And Light, Light Clean .....	31.42	
<i>For Medium Clean, Add</i>	13.20	
<i>For Heavy Clean, Add</i>	40.85	
02 90 50 00-0072 EA Ceiling Exhaust Fan, Light Clean .....	22.05	
<i>For Medium Clean, Add</i>	9.26	
<i>For Heavy Clean, Add</i>	28.67	
02 90 50 00-0073 EA 2' x 4' Light Fixture, Light Clean .....	14.50	
<i>For Medium Clean, Add</i>	6.09	
<i>For Heavy Clean, Add</i>	18.85	
02 90 50 00-0074 EA Light Fixture, Light Clean .....	6.64	
<i>For Medium Clean, Add</i>	2.79	
<i>For Heavy Clean, Add</i>	8.63	
02 90 50 00-0075 EA Smoke Detector, Light Clean .....	5.14	
<i>For Medium Clean, Add</i>	2.16	
<i>For Heavy Clean, Add</i>	6.68	
02 90 50 00-0076 EA Thermostat, Light Clean .....	1.81	
<i>For Medium Clean, Add</i>	0.76	
<i>For Heavy Clean, Add</i>	2.35	

**02 Existing Conditions****02 90 Disaster Recovery****02 90 50 Cleaning And Emergency Clean-up**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 90 50 00-0077	Thermal Fog (02 90 50 00-0008)		
02 90 50 00-0078	CF Clean And Deodorize Building With Thermal Fog.....		0.02
02 90 50 00-0079	Contents Manipulation (02 90 50)		
02 90 50 00-0080	SF Cover Contents With 6 Mil Plastic Sheetting.....		0.20
02 90 50 00-0081	SF Floor Protection - Adhesive Film.....		0.25
02 90 50 00-0082	SF Move Contents Out And Later Reset.....		0.48
02 90 50 00-0083	MO 20' Long Job Site Storage Trailer.....		116.12
02 90 50 00-0084	MO 40' Long Job Site Storage Trailer.....		153.99
02 90 50 00-0085	EA Delivery Or Pickup Job Site Storage Trailer.....		140.52
02 90 50 00-0086	Water Emergency Clean-up (02 90 50)		
02 90 50 00-0087	LF Detach Baseboard.....		0.61
02 90 50 00-0088	LF Detach And Later Reset Baseboard.....		1.09
02 90 50 00-0089	EA Block And Pad Furniture (Per Piece Of Furniture).....		4.00
02 90 50 00-0090	SF Water Extraction From Floor.....		0.41
02 90 50 00-0091	SF Gray Water Extraction From Floor.....		0.67
02 90 50 00-0092	SF Black Water Extraction From Floor.....		1.06
02 90 50 00-0093	SF Tear Out Wet Non Salvageable Carpet.....		0.34
02 90 50 00-0094	SF Tear Out Wet Non Salvageable Carpet, Black Water.....		0.40
02 90 50 00-0095	SF Tear Out Wet Non Salvageable Glue Down Carpet.....		0.59
02 90 50 00-0096	SF Tear Out Wet Non Salvageable Glue Down Carpet, Black Water.....		0.87
02 90 50 00-0097	SF Tear Out Vinyl Flooring.....		0.82
02 90 50 00-0098	SF Tear Out Vinyl Flooring, Black Water.....		1.20
02 90 50 00-0099	SF Tear Out Wood Flooring, Black Water.....		3.11
02 90 50 00-0100	SF Tear Out Laminated Wood Flooring.....		1.52
02 90 50 00-0101	SF Tear Out Laminated Wood Flooring, Black Water.....		2.24
02 90 50 00-0102	SF Tear Out Wet Ceiling Tile.....		0.25
02 90 50 00-0103	SF Tear Out Batt Insulation.....		0.25
02 90 50 00-0104	SF Tear Out Wet Gypsum Board.....		0.43
02 90 50 00-0105	SF Apply Antimicrobial Agent.....		0.19
02 90 50 00-0106	SF HEPA Vacuuming.....		0.33
02 90 50 00-0107	Emergency Clean-up Labor (02 90 50)		
	Note: Used in the performance of time and material projects. Not to be used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 50 00-0108	HR Cleaning And Emergency Clean Up - General Laborer (Unskilled).....		26.00
02 90 50 00-0109	HR Cleaning And Emergency Clean Up - General Laborer (Skilled).....		32.50
02 90 50 00-0110	HR Cleaning And Emergency Clean Up - Skilled Tradesman.....		60.00
02 90 50 00-0111	HR Cleaning And Emergency Clean Up - Restoration Laborer.....		37.88
02 90 50 00-0112	HR Cleaning And Emergency Clean Up - Restoration Technician.....		48.75
02 90 50 00-0113	HR Cleaning And Emergency Clean Up - Restoration Supervisor.....		70.25
02 90 50 00-0114	HR Cleaning And Emergency Clean Up - Restoration Project Manager.....		97.38
02 90 50 00-0115	HR Cleaning And Emergency Clean Up - Assistant Project Manager.....		84.00
02 90 50 00-0116	HR Cleaning And Emergency Clean Up - Project Manager.....		103.75
02 90 50 00-0117	HR Cleaning And Emergency Clean Up - Project Director.....		156.62
02 90 50 00-0118	HR Cleaning And Emergency Clean Up - Resource Coordinator.....		48.75
02 90 50 00-0119	HR Cleaning And Emergency Clean Up - Project Accountant.....		84.12
02 90 50 00-0120	HR Cleaning And Emergency Clean Up - Corrosion Technician.....		70.38
02 90 50 00-0121	HR Cleaning And Emergency Clean Up - Sr. Corrosion Technician.....		81.00
02 90 50 00-0122	HR Cleaning And Emergency Clean Up - Certified Mold Technician.....		72.12
02 90 50 00-0123	HR Cleaning And Emergency Clean Up - Certified Mold Supervisor.....		81.25
02 90 50 00-0124	HR Cleaning And Emergency Clean Up - Clerical.....		38.75
02 90 50 00-0125	HR Cleaning And Emergency Clean Up - Biohazard Technician.....		81.00
02 90 50 00-0126	HR Cleaning And Emergency Clean Up - Biohazard Supervisor.....		97.38
02 90 50 00-0127	HR Cleaning And Emergency Clean Up - Health And Safety Officer.....		75.62
02 90 50 00-0128	HR Cleaning And Emergency Clean Up - Resource And Logistics Coordinator.....		54.00
02 90 50 00-0129	HR Cleaning And Emergency Clean Up - Restoration Consultant.....		156.50
02 90 50 00-0130	Emergency Clean-up Equipment (02 90 50)		
	Note: Used in the performance of time and material projects. Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 50 00-0131	General Emergency Clean-up Equipment (02 90 50 00-0130)		
02 90 50 00-0132	DAY Air Compressor.....		50.77
02 90 50 00-0133	DAY Buffer - Floor.....		33.84
02 90 50 00-0134	DAY Carpet Cleaning Machine - Portable.....		77.74
02 90 50 00-0135	DAY Chain Saw.....		50.99
02 90 50 00-0136	EA Cleaning Kit With Mop, Broom And Bucket.....		56.07
02 90 50 00-0137	DAY Cut Off Saw.....		84.08
02 90 50 00-0138	DAY Dry Cleaning Unit - Portable.....		95.89
02 90 50 00-0139	DAY Extension Cords - 220 Volt.....		31.15
02 90 50 00-0140	DAY Extension Cords - 220 Volt Converter Box.....		18.69
02 90 50 00-0141	DAY Demolition Cart, 7 Yard.....		50.77



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0142 EA Demolition Kit With Wheel Barrow, Shovel And Broom .....	93.44	
02 90 50 00-0143 DAY Dry-Ice Blasting System .....	1,009.03	
02 90 50 00-0144 DAY Fogger - Mist.....	28.20	
02 90 50 00-0145 DAY Fogger - Electric Thermal .....	40.61	
02 90 50 00-0146 DAY Fogger - Gas Power Thermal .....	101.53	
02 90 50 00-0147 JOB Gang Box, Demo/Framing (One Time Per Job).....	73.33	
02 90 50 00-0148 DAY Hand Trucks/Dollies.....	14.95	
02 90 50 00-0149 DAY Heat Gun - Shrinkwrap .....	77.74	
02 90 50 00-0150 DAY HEPA Negative Air Machine.....	118.18	
Note: Includes all filters.		
02 90 50 00-0151 DAY Ladder .....	21.18	
02 90 50 00-0152 DAY Lights - Demo, Drop, Stand, String .....	20.31	
02 90 50 00-0153 DAY Lights - Wobble.....	24.82	
02 90 50 00-0154 DAY Moisture Meter .....	21.77	
02 90 50 00-0155 DAY Nail Gun.....	56.07	
02 90 50 00-0156 DAY Ozone Generator .....	129.04	
02 90 50 00-0157 DAY PPE (Personal Protective Equipment) Mold Remediation Related .....	74.75	
02 90 50 00-0158 DAY Portable Generator, Up To 7,500 Watts .....	112.81	
02 90 50 00-0159 DAY Pressure Washer, Hot .....	129.04	
02 90 50 00-0160 DAY Pressure Washer, Cold.....	103.65	
02 90 50 00-0161 DAY Scaffolding - Per Section.....	80.98	
02 90 50 00-0162 DAY Small Tools - Tool Box.....	31.15	
02 90 50 00-0163 DAY Soda Blasting Equipment .....	1,001.26	
02 90 50 00-0164 DAY Sprayer - Hudson.....	9.97	
02 90 50 00-0165 DAY Sprayer - Industrial Airless.....	84.47	
02 90 50 00-0166 DAY Storage Space (Per SF Per Day).....	2.42	
02 90 50 00-0167 DAY Submersible Pump .....	28.20	
02 90 50 00-0168 DAY Trash Pump - 2" Gas Powered .....	144.07	
02 90 50 00-0169 DAY Vehicle, Pick-up, SUV, Car.....	71.52	
02 90 50 00-0170 DAY Vehicle, Van.....	116.61	
02 90 50 00-0171 DAY Vehicle, 16' Or 24' Box Truck (Inclusive Of Mileage) .....	141.02	
02 90 50 00-0172 DAY Trailer - Refrigerated 40' Storage .....	154.96	
02 90 50 00-0173 DAY Trailer - Utility (Inclusive Of Mileage).....	129.04	
02 90 50 00-0174 DAY Truck Mount, Per Wand Extraction .....	581.99	
02 90 50 00-0175 DAY Vacuum - Backpack.....	28.20	
02 90 50 00-0176 DAY Vacuum - Shop Vacuum.....	28.20	
02 90 50 00-0177 DAY Vacuum - Commercial .....	84.61	
02 90 50 00-0178 DAY Vacuum - HEPA Industrial .....	95.89	
02 90 50 00-0179 DAY Vacuum - Upright.....	17.10	
02 90 50 00-0180 DAY Zip Walls (Per 2 Poles) .....	28.20	
02 90 50 00-0181 DAY 2 Way Radio .....	22.56	
<b>02 90 50 00-0182</b>	<b>Technical/Electronics Restoration Equipment (02 90 50 00-0130)</b>	
02 90 50 00-0183 DAY Computer - Diagnostic.....	31.15	
02 90 50 00-0184 WK Computer - Diagnostic.....	85.66	
02 90 50 00-0185 MO Computer - Diagnostic.....	233.61	
02 90 50 00-0186 DAY Convection Oven - Large.....	452.43	
02 90 50 00-0187 WK Convection Oven - Large.....	1,244.19	
02 90 50 00-0188 MO Convection Oven - Large.....	3,393.24	
02 90 50 00-0189 DAY Convection Oven - Small .....	112.13	
02 90 50 00-0190 WK Convection Oven - Small.....	308.36	
02 90 50 00-0191 MO Convection Oven - Small .....	840.98	
02 90 50 00-0192 DAY Convection Oven - Vacuum.....	645.74	
02 90 50 00-0193 WK Convection Oven - Vacuum.....	1,775.78	
02 90 50 00-0194 MO Convection Oven - Vacuum.....	4,843.05	
02 90 50 00-0195 DAY Decontamination Booth .....	533.80	
02 90 50 00-0196 WK Decontamination Booth .....	1,467.94	
02 90 50 00-0197 MO Decontamination Booth .....	4,003.48	
02 90 50 00-0198 DAY DI Water System.....	41.46	
02 90 50 00-0199 WK DI Water System.....	114.02	
02 90 50 00-0200 MO DI Water System.....	310.95	
02 90 50 00-0201 DAY ESD Bench Workstation .....	25.39	
02 90 50 00-0202 WK ESD Bench Workstation .....	69.83	
02 90 50 00-0203 MO ESD Bench Workstation .....	190.46	
02 90 50 00-0204 DAY Heater/Enclosure Control System.....	18.69	
02 90 50 00-0205 WK Heater/Enclosure Control System.....	51.39	
02 90 50 00-0206 MO Heater/Enclosure Control System.....	140.16	
02 90 50 00-0207 DAY Hi-Tech Mobile Cart/Workstation .....	65.30	
02 90 50 00-0208 WK Hi-Tech Mobile Cart/Workstation .....	179.57	
02 90 50 00-0209 MO Hi-Tech Mobile Cart/Workstation .....	489.75	
02 90 50 00-0210 DAY Micro-Blaster/Dust Collector .....	280.33	
02 90 50 00-0211 WK Micro-Blaster/Dust Collector .....	770.90	
02 90 50 00-0212 MO Micro-Blaster/Dust Collector .....	2,102.46	
02 90 50 00-0213 DAY Mobile Laboratory .....	778.69	
02 90 50 00-0214 WK Mobile Laboratory .....	2,141.39	
02 90 50 00-0215 MO Mobile Laboratory .....	5,840.16	
02 90 50 00-0216 DAY Nitrogen Enclosure Cabinet.....	14.95	
02 90 50 00-0217 WK Nitrogen Enclosure Cabinet.....	41.11	
02 90 50 00-0218 MO Nitrogen Enclosure Cabinet.....	112.13	
02 90 50 00-0219 DAY Odell Cleaning Station.....	436.06	

**02 Existing Conditions****02 90 Disaster Recovery****02 90 50 Cleaning And Emergency Clean-up**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0220 WK Odell Cleaning Station .....	1,199.18	
02 90 50 00-0221 MO Odell Cleaning Station .....	3,270.49	
02 90 50 00-0222 DAY Parts Washer .....	31.15	
02 90 50 00-0223 WK Parts Washer .....	85.66	
02 90 50 00-0224 MO Parts Washer .....	233.61	
02 90 50 00-0225 DAY Ultrasonic Cleaning System .....	194.34	
02 90 50 00-0226 WK Ultrasonic Cleaning System .....	534.45	
02 90 50 00-0227 MO Ultrasonic Cleaning System .....	1,457.58	
02 90 50 00-0228 DAY Vacuum - HEPA Technical .....	103.65	
02 90 50 00-0229 WK Vacuum - HEPA Technical .....	285.04	
02 90 50 00-0230 MO Vacuum - HEPA Technical .....	777.38	
<b>02 90 50 00-0231 Drying/Dehumidification Equipment (02 90 50 00-0130)</b>		
02 90 50 00-0232 DAY Water Extraction Unit With Dual 3-Stage Vacuums, 202 CFM .....	141.02	
Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.		
02 90 50 00-0233 WK Water Extraction Unit With Dual 3-Stage Vacuums, 202 CFM .....	387.79	
Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.		
02 90 50 00-0234 MO Water Extraction Unit With Dual 3-Stage Vacuums, 202 CFM .....	1,057.61	
Note: Includes 25' high Pressure solution hose and 25' Vacuum hose.		
02 90 50 00-0235 DAY 2,200 CFM Centrifugal Air Mover.....	30.62	
02 90 50 00-0236 WK 2,200 CFM Centrifugal Air Mover.....	84.21	
02 90 50 00-0237 MO 2,200 CFM Centrifugal Air Mover.....	229.65	
02 90 50 00-0238 DAY 3,000 CFM Axial Air Mover .....	51.03	
02 90 50 00-0239 WK 3,000 CFM Axial Air Mover .....	140.34	
02 90 50 00-0240 MO 3,000 CFM Axial Air Mover .....	382.76	
02 90 50 00-0241 DAY Injectidry System.....	135.78	
02 90 50 00-0242 WK Injectidry System.....	373.40	
02 90 50 00-0243 MO Injectidry System.....	1,018.36	
02 90 50 00-0244 DAY 1200 Drizair Refrigerant Dehumidifier .....	112.81	
02 90 50 00-0245 WK 1200 Drizair Refrigerant Dehumidifier .....	310.23	
02 90 50 00-0246 MO 1200 Drizair Refrigerant Dehumidifier .....	846.09	
02 90 50 00-0247 DAY 2000 Drizair Refrigerant Dehumidifier.....	155.74	
02 90 50 00-0248 WK 2000 Drizair Refrigerant Dehumidifier .....	428.28	
02 90 50 00-0249 MO 2000 Drizair Refrigerant Dehumidifier .....	1,168.03	
02 90 50 00-0250 DAY 2400 Drizair Refrigerant Dehumidifier .....	155.79	
02 90 50 00-0251 WK 2400 Drizair Refrigerant Dehumidifier .....	428.42	
02 90 50 00-0252 MO 2400 Drizair Refrigerant Dehumidifier .....	1,168.41	
02 90 50 00-0253 DAY Phoenix 200 Refrigerant Dehumidifier .....	166.53	
02 90 50 00-0254 WK Phoenix 200 Refrigerant Dehumidifier .....	457.96	
02 90 50 00-0255 MO Phoenix 200 Refrigerant Dehumidifier .....	1,248.99	
02 90 50 00-0256 DAY Phoenix 300 Refrigerant Dehumidifier .....	155.00	
02 90 50 00-0257 WK Phoenix 300 Refrigerant Dehumidifier .....	426.25	
02 90 50 00-0258 MO Phoenix 300 Refrigerant Dehumidifier .....	1,162.50	
02 90 50 00-0259 DAY D-500 Desiccant Dehumidifier .....	188.02	
02 90 50 00-0260 WK D-500 Desiccant Dehumidifier .....	517.06	
02 90 50 00-0261 MO D-500 Desiccant Dehumidifier .....	1,410.15	
02 90 50 00-0262 DAY D-750 Desiccant Dehumidifier .....	394.84	
02 90 50 00-0263 WK D-750 Desiccant Dehumidifier .....	1,085.82	
02 90 50 00-0264 MO D-750 Desiccant Dehumidifier .....	2,961.32	
02 90 50 00-0265 DAY D-1000 Desiccant Dehumidifier .....	676.87	
02 90 50 00-0266 WK D-1000 Desiccant Dehumidifier .....	1,861.40	
02 90 50 00-0267 MO D-1000 Desiccant Dehumidifier .....	5,076.54	
02 90 50 00-0268 DAY D-1500 Desiccant Dehumidifier .....	873.25	
02 90 50 00-0269 WK D-1500 Desiccant Dehumidifier .....	2,401.44	
02 90 50 00-0270 MO D-1500 Desiccant Dehumidifier .....	6,549.38	
02 90 50 00-0271 DAY D-2000 Desiccant Dehumidifier .....	1,042.17	
02 90 50 00-0272 WK D-2000 Desiccant Dehumidifier .....	2,865.96	
02 90 50 00-0273 MO D-2000 Desiccant Dehumidifier .....	7,816.26	
02 90 50 00-0274 DAY D-2250 Desiccant Dehumidifier .....	1,040.65	
02 90 50 00-0275 WK D-2250 Desiccant Dehumidifier .....	2,861.78	
02 90 50 00-0276 MO D-2250 Desiccant Dehumidifier .....	7,804.84	
02 90 50 00-0277 DAY D-3000 Desiccant Dehumidifier .....	1,353.74	
02 90 50 00-0278 WK D-3000 Desiccant Dehumidifier .....	3,722.80	
02 90 50 00-0279 MO D-3000 Desiccant Dehumidifier .....	10,153.08	
02 90 50 00-0280 DAY D-4500 Desiccant Dehumidifier .....	1,410.16	
02 90 50 00-0281 WK D-4500 Desiccant Dehumidifier .....	3,877.94	
02 90 50 00-0282 MO D-4500 Desiccant Dehumidifier .....	10,576.19	
02 90 50 00-0283 DAY D-5000 Desiccant Dehumidifier .....	1,635.24	
02 90 50 00-0284 WK D-5000 Desiccant Dehumidifier .....	4,496.90	
02 90 50 00-0285 MO D-5000 Desiccant Dehumidifier .....	12,264.28	
02 90 50 00-0286 DAY D-9000 Desiccant Dehumidifier .....	2,148.80	
02 90 50 00-0287 WK D-9000 Desiccant Dehumidifier .....	5,909.20	
02 90 50 00-0288 MO D-9000 Desiccant Dehumidifier .....	16,116.00	
02 90 50 00-0289 DAY D-10500 Desiccant Dehumidifier .....	2,256.24	
02 90 50 00-0290 WK D-10500 Desiccant Dehumidifier .....	6,204.66	
02 90 50 00-0291 MO D-10500 Desiccant Dehumidifier .....	16,921.80	
02 90 50 00-0292 DAY DX Unit - Heating / Air Conditioning (3.5 Ton) .....	366.64	
02 90 50 00-0293 WK DX Unit - Heating / Air Conditioning (3.5 Ton) .....	1,008.26	
02 90 50 00-0294 MO DX Unit - Heating / Air Conditioning (3.5 Ton) .....	2,749.79	
02 90 50 00-0295 DAY DX Unit - Heating / Air Conditioning (5 Ton) .....	507.65	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0296 WK DX Unit - Heating / Air Conditioning (5 Ton) .....	1,396.05	
02 90 50 00-0297 MO DX Unit - Heating / Air Conditioning (5 Ton) .....	3,807.40	
02 90 50 00-0298 DAY DX Unit - Heating / Air Conditioning (10 Ton) .....	676.87	
02 90 50 00-0299 WK DX Unit - Heating / Air Conditioning (10 Ton) .....	1,861.40	
02 90 50 00-0300 MO DX Unit - Heating / Air Conditioning (10 Ton) .....	5,076.54	
02 90 50 00-0301 DAY DX Unit - Heating / Air Conditioning (25 Ton) .....	902.50	
02 90 50 00-0302 WK DX Unit - Heating / Air Conditioning (25 Ton) .....	2,481.86	
02 90 50 00-0303 MO DX Unit - Heating / Air Conditioning (25 Ton) .....	6,768.72	
02 90 50 00-0304 DAY DX Unit - Heating / Air Conditioning (50 Ton) .....	1,522.96	
02 90 50 00-0305 WK DX Unit - Heating / Air Conditioning (50 Ton) .....	4,188.15	
02 90 50 00-0306 MO DX Unit - Heating / Air Conditioning (50 Ton) .....	11,422.22	
02 90 50 00-0307 DAY DX Unit - Heating / Air Conditioning (80 Ton) .....	1,692.18	
02 90 50 00-0308 WK DX Unit - Heating / Air Conditioning (80 Ton) .....	4,653.50	
02 90 50 00-0309 MO DX Unit - Heating / Air Conditioning (80 Ton) .....	12,691.35	
02 90 50 00-0310 DAY Flex Duct - 25' .....	22.56	
02 90 50 00-0311 WK Flex Duct - 25' .....	62.05	
02 90 50 00-0312 MO Flex Duct - 25' .....	169.22	
02 90 50 00-0313 DAY Hygro Thermograph .....	31.15	
02 90 50 00-0314 WK Hygro Thermograph .....	85.66	
02 90 50 00-0315 MO Hygro Thermograph .....	233.61	
02 90 50 00-0316 DAY Dehumidification Trailer With 1,500 CFM Desiccant Unit .....	4,935.52	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 50 00-0317 WK Dehumidification Trailer With 1,500 CFM Desiccant Unit .....	13,572.69	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
02 90 50 00-0318 MO Dehumidification Trailer With 1,500 CFM Desiccant Unit .....	37,016.44	
Note: Includes 400 KW generator, 1500 CFM desiccant DH, 25 Ton DX unit, 1000 gallon fuel tank, and limited electrical distribution.		
<b>02 90 50 00-0319 Power Equipment (02 90 50 00-0130)</b>		
02 90 50 00-0320 WK Generator, Up to 65 KVA .....	907.87	
02 90 50 00-0321 WK Generator, Up to 125 KVA .....	966.96	
02 90 50 00-0322 WK Generator, Up to 250 KVA .....	1,071.71	
02 90 50 00-0323 WK Generator, Up to 375 KVA .....	1,772.76	
02 90 50 00-0324 WK Generator, Up to 440 KVA .....	2,793.44	
02 90 50 00-0325 WK Generator, Up to 625 KVA .....	3,760.40	
02 90 50 00-0326 WK Generator, Up to 800 KVA .....	4,539.34	
02 90 50 00-0327 WK Generator, Up to 1,000 KVA .....	5,183.98	
02 90 50 00-0328 WK Generator, Up to 1,500 KVA .....	5,909.20	
02 90 50 00-0329 EA Generator Cable/Pigtails (Per Section) .....	18.05	
02 90 50 00-0330 EA Sub-Distribution Panel (Spider Box) .....	77.74	
02 90 50 00-0331 EA Electrical Distribution Panel .....	194.34	
02 90 50 00-0332 EA Quad Box Strings (25' Sections) .....	32.50	
02 90 50 00-0333 EA 50' Power Cord For Spider Box .....	30.08	
02 90 50 00-0334 EA Pig Tails (Per Each) .....	3.11	
<b>02 90 50 00-0335 Freight Charges (02 90 50 00-0130)</b>		
02 90 50 00-0336 MI Freight Up To 1 Ton Pick Up Truck .....	1.56	
02 90 50 00-0337 MI Freight >1 Ton Pick Up Truck .....	2.80	
02 90 50 00-0338 MI Freight 16' Or 24' Box Truck .....	2.80	
02 90 50 00-0339 MI Freight Tractor Trailer .....	4.05	
<b>02 90 50 00-0340 Emergency Clean-up Personal Protection Equipment (02 90 50)</b>		
Note: Used in the performance of time and material projects. Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
02 90 50 00-0341 EA Tyvek Suit .....	9.34	
02 90 50 00-0342 EA Cartridge - Respirator .....	17.10	
02 90 50 00-0343 BOX Dust Mask .....	36.37	
02 90 50 00-0344 PR Gloves - Cotton .....	2.33	
02 90 50 00-0345 BOX Gloves - Latex .....	15.23	
02 90 50 00-0346 PR Gloves - Leather .....	8.47	
02 90 50 00-0347 EA Gloves - Rubber (Heavy Duty) .....	5.49	
02 90 50 00-0348 PR Polycarbonate Lens Safety Goggles .....	9.22	
02 90 50 00-0349 EA Respirator - With One Pair Cartridges .....	77.28	
02 90 50 00-0350 PR Safety Glasses .....	4.04	
02 90 50 00-0351 EA Safety Harness (Per Person/Day) .....	5.64	
<b>02 90 50 00-0352 Emergency Clean-up Expendables (02 90 50)</b>		
Note: Used in the performance of time and material projects. Used in the performance of time and material projects. Not used in conjunction with tasks in the Cleaning, Contents Manipulation, and Water Emergency Clean-up sections.		
<b>02 90 50 00-0353 General Materials (02 90 50 00-0352)</b>		
02 90 50 00-0354 GAL Adhesive Remover .....	84.61	
02 90 50 00-0355 GAL Bio-HS .....	26.55	
02 90 50 00-0356 GAL Biocide .....	33.88	

**02 Existing Conditions****02 90 Disaster Recovery****02 90 50 Cleaning And Emergency Clean-up**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

02 90 50 00-0357	EA	Box - Book	4.46	
02 90 50 00-0358	EA	Box - Large	6.98	
02 90 50 00-0359	GAL	Bleach	9.10	
02 90 50 00-0360	EA	Brush - Stainless - Small	5.18	
02 90 50 00-0361	EA	Buckets - 2 1/2 Gal.	6.58	
02 90 50 00-0362	EA	Buckets - 5 Gallon	9.97	
02 90 50 00-0363	GAL	Carpet Defoamer	25.64	
02 90 50 00-0364	GAL	Carpet Pre-treat	19.18	
02 90 50 00-0365	GAL	Carpet Spotter	32.13	
02 90 50 00-0366	GAL	Carpet/Upholstery Cleaner	25.91	
02 90 50 00-0367	ROL	Carpet Masking/Shield	71.88	
02 90 50 00-0368	EA	Chem Sponge	3.33	
02 90 50 00-0369	GAL	Clear Seal	113.76	
02 90 50 00-0370	GAL	Coil Cleaner	49.49	
02 90 50 00-0371	EA	Comfort Masks, Per Box 50	36.37	
02 90 50 00-0372	EA	Coverall - Bio-Hazard	16.08	
02 90 50 00-0373	EA	Decon Chamber	533.80	
02 90 50 00-0374	GAL	Degreaser, All Purpose	17.62	
02 90 50 00-0375	GAL	De-Foamer Liquid	48.93	
02 90 50 00-0376	EA	Deodorization Membrane	89.28	
02 90 50 00-0377	GAL	Deodorizer, 9D9	146.26	
02 90 50 00-0378	LB	Deodorizing Gel	18.33	
02 90 50 00-0379	GAL	Deodorizing Liquid	47.34	
02 90 50 00-0380	PAIL	Deodorizing Block	8.64	
02 90 50 00-0381	GAL	Disinfectant/Antimicrobial	52.86	
02 90 50 00-0382	GAL	Disinfectant, BruClean	27.07	
02 90 50 00-0383	GAL	Dryclene	37.20	
02 90 50 00-0384	GAL	Duct Sealant Spray	56.07	
02 90 50 00-0385	GAL	Duct Sealant, Antifungal	80.98	
02 90 50 00-0386	GAL	Microbial Encapsulant (Fosters 20 - 40)	131.89	
02 90 50 00-0387	PR	Ear Plugs	0.50	
02 90 50 00-0388	GAL	Encapsulant	84.99	
02 90 50 00-0389	GAL	Fiberlocke - Aftershock	74.63	
02 90 50 00-0390	GAL	Fiberlocke - IAQ 2500	96.16	
02 90 50 00-0391	GAL	Fiberlocke - IAS 6000	98.90	
02 90 50 00-0392	ROL	Filter Material	136.32	
02 90 50 00-0393	EA	Filter, Blue Paper Collection Bag	5.59	
02 90 50 00-0394	EA	Filter, CVAC For HEPA Vacuum	295.40	
02 90 50 00-0395	EA	Filter, Pre-Filter For Negative Air Machine	2.13	
02 90 50 00-0396	EA	Filter, Pleated For Negative Air Machine	7.26	
02 90 50 00-0397	EA	Filter, Charcoal For Negative Air Machine	33.74	
02 90 50 00-0398	EA	Filter, HEPA For Negative Air Machine	238.91	
02 90 50 00-0399	EA	Filter, Pleated For Dehumidifiers	8.47	
02 90 50 00-0400	GAL	Floor Stripper	17.44	
02 90 50 00-0401	GAL	Floor Wax	24.92	
02 90 50 00-0402	GAL	Fogger (Thermal)	65.30	
02 90 50 00-0403	BOX	Furniture Blocks	124.94	
02 90 50 00-0404	EA	Furniture Polish, Per Can	5.18	
02 90 50 00-0405	GAL	Glass Cleaner	8.29	
02 90 50 00-0406	PR	Chemical Splash/Impact Resistant, Polycarbonate Lens Safety Goggles	15.20	
02 90 50 00-0407	EA	Goof Off Spray, 12 Oz	13.43	
02 90 50 00-0408	EA	Halogen Light Bulbs	17.79	
02 90 50 00-0409	QT	Hand Sanitizer	8.80	
02 90 50 00-0410	EA	Hard Hats	7.24	
02 90 50 00-0411	BOX	Hog Rings, Box Of 2,500	16.36	
02 90 50 00-0412	GAL	HVAC Coal Cleaner	49.49	
02 90 50 00-0413	BOX	Inventory Tag, Box Of 1,000	115.10	
02 90 50 00-0414	EA	Knives - Utility	13.70	
02 90 50 00-0415	ROL	Lay Flat Tubing, 13" (250' Roll)	70.86	
02 90 50 00-0416	ROL	Lay Flat Tubing, 20" (250' Roll)	104.24	
02 90 50 00-0417	ROL	Lay Flat Tubing, 29" (250' Roll)	207.54	
02 90 50 00-0418	ROL	Lay Flat Tubing, 39" (250' Roll)	299.98	
02 90 50 00-0419	GAL	Lemon Oil	45.12	
02 90 50 00-0420	GAL	LPS 1/Mecca Lube	45.28	
02 90 50 00-0421	GAL	LPS 2	47.92	
02 90 50 00-0422	GAL	LPS Contact Cleaner	47.69	
02 90 50 00-0423	GAL	Lubricant, Preserver (Light)	120.15	
02 90 50 00-0424	GAL	Lubricant, Preserver (Heavy)	24.92	
02 90 50 00-0425	GAL	Machinery Cleaning Solvent	216.04	
02 90 50 00-0426	GAL	Metal Polishing Paste	22.24	
02 90 50 00-0427	GAL	Microban	50.36	
02 90 50 00-0428	GAL	Milgo	61.81	
02 90 50 00-0429	EA	Mop Heads	8.02	
02 90 50 00-0430	EA	Nylon Scouring Pads	1.37	
02 90 50 00-0431	GAL	Odor Neutralizer	32.13	
02 90 50 00-0432	EA	Packing Paper, 25 LB Bundle	59.85	
02 90 50 00-0433	EA	Paint Brushes	6.23	
02 90 50 00-0434	ROL	Paper, Corrugated/Craft	139.59	
02 90 50 00-0435	EA	Putty Knives	5.64	
02 90 50 00-0436	ROL	Red Resin Paper, 200' Roll	25.39	
02 90 50 00-0437	GAL	Reodorant	105.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
02 90 50 00-0438 EA Respirator - N95 .....	3.63	
02 90 50 00-0439 EA Respirator - N95 With valve .....	5.63	
02 90 50 00-0440 PR Respirator Cartridges - 3M .....	37.78	
02 90 50 00-0441 PR Respirator Cartridges -P100 .....	37.78	
02 90 50 00-0442 EA Respirator Cleaning Wipes, Per Box 100 .....	30.23	
02 90 50 00-0443 GAL Restoracide .....	49.67	
02 90 50 00-0444 GAL Rust Remover .....	75.66	
02 90 50 00-0445 EA Saltesmo Test Samples .....	7.34	
02 90 50 00-0446 EA Sand Bag, Excluding Sand .....	1.92	
02 90 50 00-0447 EA Scotch-Brite 7447, Per Box 50 .....	23.97	
02 90 50 00-0448 EA Sm. Scrub Brushes .....	11.92	
02 90 50 00-0449 GAL Soot Sealant, Clear .....	45.09	
02 90 50 00-0450 GAL Soot Sealant, Pigmented .....	246.98	
02 90 50 00-0451 ROL Shrinkwrap Plastic .....	56.86	
02 90 50 00-0452 EA Sponges - Dry .....	4.15	
02 90 50 00-0453 EA Spray Adhesive, Per Can .....	5.93	
02 90 50 00-0454 EA Spray Bot./Trigger .....	4.81	
02 90 50 00-0455 GAL Stain Remover .....	29.02	
02 90 50 00-0456 GAL Stainless Steel Cleaner .....	11.17	
02 90 50 00-0457 EA Stainless Steel Polish, Per Can .....	14.67	
02 90 50 00-0458 LB Sweeping Compound .....	0.44	
02 90 50 00-0459 ROL Tape - Duct .....	7.26	
02 90 50 00-0460 ROL Tape - Environmental (Teal) .....	12.66	
02 90 50 00-0461 ROL Tape - HVAC (Aluminum) .....	27.41	
02 90 50 00-0462 ROL Tape - Blue Masking (Painters Tape) .....	8.29	
02 90 50 00-0463 ROL Tape - Poly Box .....	4.79	
02 90 50 00-0464 LB Terry Towels .....	6.42	
02 90 50 00-0465 GAL Thermal Fog .....	65.30	
02 90 50 00-0466 ROL Trash Bags - Lawn And Leaf .....	36.10	
02 90 50 00-0467 ROL Trash Bags - 6 Mil Heavy Duty (50 Count) .....	143.97	
02 90 50 00-0468 EA Trisodium Phosphaste, 20 LB Pail .....	45.46	
02 90 50 00-0469 EA Vacuum Bags - Backpack .....	1.53	
02 90 50 00-0470 EA Vacuum Bags - Upright .....	2.04	
02 90 50 00-0471 GAL Vinyl And Leather Cleaner .....	25.91	
02 90 50 00-0472 ROL Visqueen 1 Mil .....	46.77	
02 90 50 00-0473 ROL Visqueen 4 Mil .....	126.99	
02 90 50 00-0474 ROL Visqueen 6 Mil .....	173.28	
02 90 50 00-0475 LB Wipes, Cotton Cloth .....	4.91	
02 90 50 00-0476 ROL 12" x 750', Wrap, Bubble / Anti-Static .....	87.58	
02 90 50 00-0477 EA Wyp-Alls, Case, 160 Wipes .....	12.96	
02 90 50 00-0478 EA Zip Wall Zippers .....	12.44	
<b>02 90 50 00-0479</b>	<b>Technical/Electronics Restoration Materials</b>	<small>(02 90 50 00-0352)</small>
02 90 50 00-0480 EA Brush - Brass .....	4.67	
02 90 50 00-0481 EA Brush - Natural Bristle 1" .....	1.50	
02 90 50 00-0482 EA Brush - Natural Bristle 1/2" .....	1.25	
02 90 50 00-0483 EA Brush - Natural Bristle 1/4" .....	1.06	
02 90 50 00-0484 EA Brush - Parts .....	6.48	
02 90 50 00-0485 EA Brush - Plastic .....	3.36	
02 90 50 00-0486 EA Brush - Wire Grout .....	7.26	
02 90 50 00-0487 EA Brushing Tool .....	13.99	
02 90 50 00-0488 EA Cleaning Swabs, Cotton .....	0.31	
02 90 50 00-0489 EA Cleaning Swabs, Foam Tip .....	0.37	
02 90 50 00-0490 EA Contact Restorer, Per Can .....	30.21	
02 90 50 00-0491 EA Contact Spray, Per Can .....	20.56	
02 90 50 00-0492 UNIT Corrosion Inhibitor Emitter - 1 CF .....	2.99	
02 90 50 00-0493 UNIT Corrosion Inhibitor Emitter - 5 CF .....	6.85	
02 90 50 00-0494 UNIT Corrosion Inhibitor Emitter - 10 CF .....	11.84	
02 90 50 00-0495 LB Cotton Cleaning Cloths .....	18.69	
02 90 50 00-0496 EA 12" x 17" Dust Cloths .....	0.28	
02 90 50 00-0497 EA 24" x 24" Dust Cloths .....	0.77	
02 90 50 00-0498 EA Deoxidizing Agent, Per Can .....	14.64	
02 90 50 00-0499 GAL Electronic Grade Detergent .....	31.10	
02 90 50 00-0500 SHT Inventory Labels .....	0.12	
02 90 50 00-0501 GAL Isopropyl Alcohol .....	82.40	
02 90 50 00-0502 GAL Lubrication/Penetrating Oil, Per Can .....	120.15	
02 90 50 00-0503 GAL PC Board Detergent .....	85.34	
02 90 50 00-0504 GAL Rust Inhibitor, Regular Duty .....	148.91	
02 90 50 00-0505 GAL Rust Inhibitor - Moderate Duty .....	150.03	
02 90 50 00-0506 GAL Rust Inhibitor - Severe Duty .....	160.36	
02 90 50 00-0507 LB Wipes - Lint Free Cloths .....	4.91	
02 90 50 00-0508 EA Wire Marker Card .....	2.18	
02 90 50 00-0509 EA Steel Wool, 16 Pad Sleeve .....	1.10	
<b>02 90 50 00-0510</b>	<b>Board Up And Tarp Up</b>	<small>(02 90 50)</small>
02 90 50 00-0511 SF Polyethylene Tarp On Roof .....	0.21	
02 90 50 00-0512 SF Temporary Plywood On Roof .....	1.41	
02 90 50 00-0513 SF Temporary Plywood On Wall Or Windows .....	1.77	

**02 Existing Conditions****02 90 Disaster Recovery****02 90 50 Cleaning And Emergency Clean-up**

MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>02 90 50 00-0514</b>	<b>Minimum Charges</b> <small>(02 90 50)</small>	
02 90 50 00-0515	EA Minimum For Cleaning.....	746.71
02 90 50 00-0516	EA Minimum For Water Extraction.....	160.66
02 90 50 00-0517	EA Minimum For Carpet Cleaning.....	149.51

<b>02 90 50 00-0518</b>	<b>Document Restoration</b> <small>(02 90 50)</small>	
02 90 50 00-0519	EA Book Rebinding, Each.....	77.21
02 90 50 00-0520	EA Book Recasing, Each.....	38.60
02 90 50 00-0521	EA Boxes-MCS, 1.2 CF.....	5.22
02 90 50 00-0522	EA Boxes-MCS, 2.0 CF.....	5.76
02 90 50 00-0523	EA Boxes Bankers.....	12.33
02 90 50 00-0524	EA Boxes Standard Packout.....	3.34
02 90 50 00-0525	EA Boxes X Ray.....	7.72
02 90 50 00-0526	EA CD Scanning and Diagnostics, Each.....	7.72
02 90 50 00-0527	EA Cleaning Antique Books, Each.....	231.61
02 90 50 00-0528	EA Cleaning Catheter Roll, Per Roll.....	30.87
02 90 50 00-0529	EA Cleaning CD And DVD, Per Disc.....	3.10
02 90 50 00-0530	EA Cleaning Level 1 - Blue Prints, Each.....	2.17
02 90 50 00-0531	CF Cleaning Level 1 - Document Per CF.....	67.25
02 90 50 00-0532	EA Cleaning Level 1 - Linen, Each.....	2.17
02 90 50 00-0533	EA Cleaning Level 1 - Mylar, Each.....	2.17
02 90 50 00-0534	EA Cleaning Level 2 - Blue Print, Each.....	2.70
02 90 50 00-0535	CF Cleaning Level 2 - Document Per CF.....	100.78
02 90 50 00-0536	EA Cleaning Level 2 - Linen, Each.....	2.70
02 90 50 00-0537	EA Cleaning Level 2 - Mylar, Each.....	2.70
02 90 50 00-0538	EA Cleaning Level 3 - Blue Prints, Each.....	3.82
02 90 50 00-0539	CF Cleaning Level 3 - Document Per CF.....	134.47
02 90 50 00-0540	EA Cleaning Level 3 - Linen, Each.....	3.82
02 90 50 00-0541	EA Cleaning Level 3 - Mylar, Each.....	3.82
02 90 50 00-0542	EA Cleaning Level 4 - All Fire-Blue Print, Each.....	5.36
02 90 50 00-0543	EA Cleaning Level 4 - All Fire-Linen, Each.....	5.36
02 90 50 00-0544	EA Cleaning Level 4 - All Fire-Mylar, Each.....	5.36
02 90 50 00-0545	CF Cleaning Level 4 - Light Fire-Documnt Per CF.....	168.06
02 90 50 00-0546	EA Cleaning Level 5 - Severe Fire-Blue Print, Each.....	5.94
02 90 50 00-0547	CF Cleaning Level 5 - Severe Fire-Documnt Per CF.....	252.16
02 90 50 00-0548	EA Cleaning Level 5 - Severe Fire-Linen, Each.....	5.94
02 90 50 00-0549	EA Cleaning Level 5 - Severe Fire-Mylar, Each.....	5.94
02 90 50 00-0550	EA Cleaning Microfiche Sheets, Each.....	3.10
02 90 50 00-0551	EA Cleaning Microfiche Strips, Each.....	0.78
02 90 50 00-0552	EA Cleaning Microfilm Rolls (In House), Per Roll.....	77.21
02 90 50 00-0553	EA Cleaning Microfilm Rolls (Outside), Per Roll.....	108.09
02 90 50 00-0554	EA Cleaning Photographs Negatives, Per Negative.....	0.78
02 90 50 00-0555	EA Cleaning Photographs, Each.....	3.10
02 90 50 00-0556	EA Cleaning Record Albums, Each.....	3.10
02 90 50 00-0557	EA Cleaning VHS And Beta Tapes-In House, Each.....	7.72
02 90 50 00-0558	EA Cleaning VHS And Beta Tapes-Outside, Each.....	30.87
02 90 50 00-0559	EA Cleaning X Ray 1-1000, Per Film.....	3.09
02 90 50 00-0560	EA Cleaning X Ray 1K-5K, Per Film.....	2.64
02 90 50 00-0561	EA Cleaning X Ray 5K-Up, Per Film.....	2.07
02 90 50 00-0562	EA Copying Clean Water, Per Page.....	0.28
02 90 50 00-0563	EA Copying Greywater Fire, Per Page.....	0.83
02 90 50 00-0564	CF Deodorization, Vapor Tech.....	5.71
02 90 50 00-0565	CF Disinfectant-Fogging.....	10.83
02 90 50 00-0566	EA Document Disposal In House No Shredding.....	44.33
02 90 50 00-0567	EA Document Disposal In House With Shredding.....	12.10
02 90 50 00-0568	CF Up To 150 CF, Drying-MCS Center.....	138.97
02 90 50 00-0569	CF >150 To 500 CF, Drying-MCS Center.....	108.09
02 90 50 00-0570	CF >500 CF, Drying-MCS Center.....	92.65
02 90 50 00-0571	CF >50 To 150 CF, Drying-MCS Center.....	123.53
02 90 50 00-0572	CF Up To 500 CF, Drying-Onsite.....	231.61
02 90 50 00-0573	CF >500 CF, Drying-Onsite.....	142.08
02 90 50 00-0574	EA Drying Antique Books, Each.....	30.87
02 90 50 00-0575	EA Drying Blue Prints, Each.....	3.86
02 90 50 00-0576	EA DVD Scanning And Diagnostics, Each.....	7.72
02 90 50 00-0577	EA Freeze Drying (In House).....	75.21
02 90 50 00-0578	EA Freeze Drying (Outside).....	53.72
02 90 50 00-0579	EA Up To 48 CF, Irradiation - Gamma (Minimum Charge).....	1,772.76
02 90 50 00-0580	CF >48 CF, Irradiation - Gamma (Per CF Charge).....	16.12
02 90 50 00-0581	EA Minimal Drying Jobs.....	746.71
02 90 50 00-0582	EA Monthly Storage.....	129.56
02 90 50 00-0583	EA Mylar Prints.....	7.72
02 90 50 00-0584	CF Ozoning.....	5.12
02 90 50 00-0585	CF Stabilization Freezer Storage, Per Cubic Foot Per Month.....	6.49
02 90 50 00-0586	MO Stabilization Freezer Storage, Per Page-Per Month.....	0.07
02 90 50 00-0587	EA Wood Pallets, Each.....	18.04



<b>Existing Conditions</b>	<b>02</b>	<b>02</b>
Disaster Recovery	02 90	
Cleaning And Emergency Clean-up	02 90 50	

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**END OF SECTION 02**

02

**02 Existing Conditions**

02 90 Disaster Recovery

02 90 50 Cleaning And Emergency Clean-up



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

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<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Maintenance Of Concrete</b>	<b>03 01</b>	
<b>Maintenance Of Cast-In-Place Concrete</b>	<b>03 01 30</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 03 Concrete

### 03 01 Maintenance Of Concrete <sup>(03)</sup>

#### 03 01 30 Maintenance Of Cast-In-Place Concrete <sup>(03 01)</sup>

##### 03 01 30 51 **Cleaning Of Cast-In-Place Concrete** <sup>(03 01 30)</sup>

03 01 30 51-0001	<b>Abrasive Blasting</b> <sup>(03 01 30 51)</sup>	
	Note: Includes containment and clean-up of all material. Includes steel ball media.	
03 01 30 51-0002	SF Concrete Floors, Abrasive Shot Blasting .....	1.92
	For Up To 100, Add	2.36
	For >100 To 250, Add	0.59
	For >250 To 500, Add	0.30
	For >5,000 To 10,000, Deduct	-0.06
	For >10,000, Deduct	-0.12
03 01 30 51-0003	SF Concrete Walls, Abrasive Shot Blasting .....	3.11
	For Up To 100, Add	4.74
	For >100 To 250, Add	1.19
	For >250 To 500, Add	0.59
	For >5,000 To 10,000, Deduct	-0.12
	For >10,000, Deduct	-0.24

##### 03 01 30 71 **Rehabilitation Of Cast-in-Place Concrete** <sup>(03 01 30)</sup>

03 01 30 71-0001	<b>Concrete Resurfacing/Repair</b> <sup>(03 01 30 71)</sup>	
03 01 30 71-0002	<b>Concrete Repair</b> <sup>(03 01 30 71-0001)</sup>	
03 01 30 71-0003	<b>Decks Or Floors</b> <sup>(03 01 30 71-0002)</sup>	
	Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0004	SF 1/8" To 1/4", Cementitious Mortar Patch, Decks And Floors.....	5.60
03 01 30 71-0005	SF 1/8" To 1/4", Epoxy Cementitious Mortar Patch, Decks And Floors.....	19.45
03 01 30 71-0006	SF White Aluminum Oxide Grit (Non Slip Aggregate) Patch, Decks And Floors.....	0.52
03 01 30 71-0007	<b>Verticals Or Overheads</b> <sup>(03 01 30 71-0002)</sup>	
	Note: Includes bonding agent and sealant. Excludes saw cutting, sand blasting and forming.	
03 01 30 71-0008	SF 1/8" To 1/4" Cementitious Mortar Patch, Verticals And Overheads .....	8.28
03 01 30 71-0009	SF 1/8" To 1/4" Epoxy Cementitious Mortar Patch, Verticals And Overheads .....	25.49
03 01 30 71-0010	SF 1/8" To 1/4" Latex Cementitious Mortar Patch, Verticals And Overheads .....	28.99
03 01 30 71-0011	SF 1/8" To 1/4" Elastomeric Compound Patch, Verticals And Overheads .....	5.91
03 01 30 71-0012	SF 1/8" To 1/4" Copolymer Cementitious Compound Patch, Verticals And Overheads.....	10.29
	Note: Rapid Set - Wunderfixx	
03 01 30 71-0013	<b>Bridge Deck Treatment</b> <sup>(03 01 30 71-0002)</sup>	
03 01 30 71-0014	SF Sweep Bridge Deck .....	0.01
03 01 30 71-0015	SF Clean Bridge Deck.....	0.02
03 01 30 71-0016	SF Treat Bridge Deck With Methacrylate Resin Sealant.....	1.38
03 01 30 71-0017	<b>Concrete Finishes</b> <sup>(03 01 30 71-0001)</sup>	
03 01 30 71-0018	<b>Concrete Patching</b> <sup>(03 01 30 71-0017)</sup>	
03 01 30 71-0019	<b>Walls</b> <sup>(03 01 30 71-0018)</sup>	
03 01 30 71-0020	BAG Sika Top 111 Plus.....	103.86
	Note: SikaTop 111 PLUS is a two-component, polymer-modified, portland-cement, fast-setting, screed mortar. Yield: Approximately 0.5 cu. ft./unit. Approximately 0.75 cu. ft./unit (SikaTop 111 + 42 lbs. of 3/8" pea gravel).	
	For Up To 10, Add	33.91
	For >10 To 25, Add	20.35
	For >25 To 50, Add	13.56
	For >50 To 75, Add	6.78
03 01 30 71-0021	BAG Sika Grout 212, 50 LB Bag.....	73.00
	Note: SikaGrout 212 is a non-shrink, cementitious grout with a unique 2-stage shrinkage compensating mechanism. It is non-metallic and contains no chloride. Coverage: Approximately 0.44 cu. ft./bag at high flow.	
	For Up To 10, Add	21.49
	For >10 To 25, Add	12.89
	For >25 To 50, Add	8.59
	For >50 To 75, Add	4.30
03 01 30 71-0022	EA Sika Flex 1A, 10.3 Ounce Tube .....	28.56
	Note: Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Coverage: 10.3 fl. oz. cartridge seals 12.4 lineal ft. of 1/2 x 1/4 in. joint. 20 fl. oz. uni-pac sausage seals 24 lineal ft. of 1/2 x 1/4 in. joint.	
03 01 30 71-0023	BAG Pea Gravel.....	20.07

03 01 30 71-0024 **Crack Repair For Concrete** <sup>(03 01 30 71-0001)</sup>

03 01 30 71-0025 **Non Structural Crack Repair For Concrete** <sup>(03 01 30 71-0024)</sup>

**03 Concrete****03 01 Maintenance Of Concrete****03 01 30 Maintenance Of Cast-In-Place Concrete**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 01 30 71-0026	<b>Surface Applied, Non Structural Crack Repair For Concrete</b> <small>(03 01 30 71-0025)</small> Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing sealer with caulk gun, cartridge gun, squeeze bottle, etc. Excludes backer rod and sanding.		
03 01 30 71-0027	LF Up To 1/4" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	4.96	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.99	
03 01 30 71-0028	LF >1/4" To 1/2" Wide, Latex Emulsion, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Squeeze Tube (Quikrete® Concrete Crack Seal).....	6.47	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.91	
03 01 30 71-0029	LF Up To 1/4" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	5.03	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.99	
03 01 30 71-0030	LF >1/4" To 1/2" Wide, Sanded Acrylic Latex, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Quikrete® Concrete Repair).....	6.61	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.91	
03 01 30 71-0031	LF Up To 1/4" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	5.30	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.99	
03 01 30 71-0032	LF >1/4" To 1/2" Wide, Self Leveling Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Self-Leveling Sealant).....	7.15	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.91	
03 01 30 71-0033	LF Up To 1/4" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	5.50	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.99	
03 01 30 71-0034	LF >1/4" To 1/2" Wide, Non-Sag Elastomeric Polyurethane Sealant, Gravity Fed Non Structural Crack Repair For Concrete, Surface Applied With Cartridge Tool (Sikaflex® Concrete Fix).....	7.55	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.91	
03 01 30 71-0035	<b>Pressure Injected, Non Structural Crack Repair For Concrete</b> <small>(03 01 30 71-0025)</small> Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with polyurethane and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0036	LF Up To 1/4" Wide, Water Activated Polyurethane Foam Grout, Non Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (SealBoss 1570).....	20.49	
	<i>For Cracks Accessible From Both Sides, Add</i> .....	4.16	
03 01 30 71-0037	<b>Structural Crack Repair For Concrete</b> <small>(03 01 30 71-0024)</small>		
03 01 30 71-0038	<b>Surface Applied, Structural Crack Repair For Concrete</b> <small>(03 01 30 71-0037)</small> Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Excludes disposal.		
03 01 30 71-0039	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	5.55	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.99	
03 01 30 71-0040	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 35).....	7.64	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.91	
03 01 30 71-0041	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied Trowel (Sikadur® 52).....	5.73	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.99	
03 01 30 71-0042	LF >1/4" To 1/2" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Trowel (Sikadur® 52).....	8.01	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.91	
03 01 30 71-0043	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	6.32	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.99	
03 01 30 71-0044	LF >1/4" To 1/2" Wide, Low Viscosity, High Strength Epoxy Resin, Gravity Fed Structural Crack Repair For Concrete, Surface Applied With Caulk Gun (Sikadur® Crack Fix).....	9.19	
	<i>For V-Grooving Crack With Grinder, Add</i> .....	3.91	
03 01 30 71-0045	<b>Pressure Injected, Structural Crack Repair For Concrete</b> <small>(03 01 30 71-0037)</small> Note: Includes removing all debris and contaminants accessible within the crack using hand tools, water blasting, compressed air or vacuuming. Includes installing injection ports, sealing the crack opening (one side only), injecting the crack with epoxy and restoring the sealed surface to flush conditions. Excludes disposal.		
03 01 30 71-0046	LF Up To 1/4" Wide, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 35).....	18.39	
	<i>For Cracks Accessible From Both Sides, Add</i> .....	4.16	
03 01 30 71-0047	LF Up To 1/4" Wide, Moisture Tolerant, Low Viscosity, High Strength Epoxy Resin, Structural Crack Repair For Concrete, Installed With Automated Injection Equipment (Sikadur® 52).....	18.57	
	<i>For Cracks Accessible From Both Sides, Add</i> .....	4.16	
03 01 30 71-0048	<b>Pool Deck Texture Repair</b> <small>(03 01 30 71-0001)</small>		
03 01 30 71-0049	SF Pool Deck Texture Repair.....	11.52	
	Note: Includes surface preparation, cleaning, repair of surface, crack repair, liquid underlayment coat, troweled top coat and finish.		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 01 30 71-0050		<b>Carbon Fiber Strengthening System</b> <small>(03 01 30 71-0001)</small> Note: Includes preparing surface, dust and debris removal by hand, clean and protect adjacent area, fill voids, primer, fabric substrate layers, final coat of epoxy and finish. Excludes disposal.	
03 01 30 71-0051	SF	Carbon Fiber Strengthening System Beams, Per Layer .....	64.30
03 01 30 71-0052	SF	Carbon Fiber Strengthening System Columns, Per Layer .....	56.13
03 01 30 71-0053	SF	Carbon Fiber Strengthening System Slabs, Per Layer .....	48.98
		Note: Includes carbon fabric epoxy saturant, primer, filler for voids, anchors, finish.	
03 01 30 71-0054		<b>Corrosive Inhibitor</b> <small>(03 01 30 71)</small>	
03 01 30 71-0055	SF	Corrosive Inhibitor.....	3.19

### 03 05 Common Work Results For Concrete (03)

03 05 00 00-0001		<b>Concrete Admixtures</b> <small>(03 05)</small>	
03 05 00 00-0002	CY	Low Range Water Reducing (LRWR), Type A Concrete Admixture .....	3.58
03 05 00 00-0003	CY	Set Retarding, Type B Concrete Admixture .....	2.48
03 05 00 00-0004	CY	1% Calcium Chloride Accelerating, Type C Concrete Admixture.....	3.85
03 05 00 00-0005	CY	2% Calcium Chloride Accelerating, Type C Concrete Admixture.....	7.70
03 05 00 00-0006	CY	1% Non-Chloride Accelerating, Type C Concrete Admixture.....	6.88
03 05 00 00-0007	CY	2% Non-Chloride Accelerating, Type C Concrete Admixture.....	13.76
03 05 00 00-0008	CY	Water Reducing and Retarding (Hydration Stabilizer), Type D Concrete Admixture .....	2.97
03 05 00 00-0009	CY	1% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture .....	4.13
03 05 00 00-0010	CY	2% Water Reducing and Accelerating (High Early Strength), Type E Concrete Admixture .....	8.25
03 05 00 00-0011	CY	Mid Range Water Reducing (MRWR) Superplasticizer, Type A Or E Concrete Admixture .....	5.82
03 05 00 00-0012	CY	High Range Water Reducing (HRWR) Superplasticizer, Type F Concrete Admixture.....	6.60
03 05 00 00-0013	CY	1-1/2 LB/CY Polyethylene, Polypropylene, Nylon, Synthetic Plastic Fibers, Concrete Admixture .....	8.80
03 05 00 00-0014	CY	25 LB/CY Steel Fibers, Concrete Admixture.....	21.37
03 05 00 00-0015	CY	10% Microsilica (Silica Fume), Concrete Admixture .....	93.06
03 05 00 00-0016	CY	Corrosion Inhibiting Concrete Admixture .....	16.51
03 05 00 00-0017	CY	Winter Service Or Heat, Concrete Add.....	3.85
03 05 00 00-0018	CY	Chilled Water, Concrete Add .....	3.85
03 05 00 00-0019	CY	Subtle Color (See Davis Colors Color Card), Concrete Admixture .....	22.29
03 05 00 00-0020	CY	Standard Color (See Davis Colors Color Card), Concrete Admixture.....	37.14
03 05 00 00-0021	CY	Premium Color (See Davis Colors Color Card), Concrete Admixture .....	71.31
03 05 00 00-0022	CY	Ultra Premium Color (See Davis Colors Color Card), Concrete Admixture .....	99.04

### 03 10 Concrete Forming And Accessories (03)

#### 03 11 Concrete Forming (03 10)

#### 03 11 13 Structural Cast-In-Place Concrete Forming (03 11)

Note: Per square foot of formwork.

03 11 13 00-0001		<b>Wood Formwork</b> <small>(03 11 13)</small> Note: For job built wood and/or plywood form systems where metal framed formwork cannot be used. Includes erecting, stripping, stacking, plywood, framing lumber, oiling, studs/walers, strongbacks, deadmen, supporting braces, turnbuckles, ties, and clips.	
03 11 13 00-0002		<b>Foundation Wood Formwork</b> <small>(03 11 13 00-0001)</small> Note: For foundation work below or at grade.	
03 11 13 00-0003	SF	Continuous Footings Foundation Wood Formwork.....	7.10
		For <1,000, Add	1.33
		For Foundations >8' Below Grade, Add	1.28
		For Curved Formwork, Add	2.57
03 11 13 00-0004	SF	Pile Cap, Pier Or Spread Footings Foundation Wood Formwork.....	8.46
		For <1,000, Add	1.60
		For Foundations >8' Below Grade, Add	1.55
		For Curved Formwork, Add	3.10
03 11 13 00-0005	SF	Mat Foundation Wood Formwork.....	9.78
		For <1,000, Add	1.87
		For Foundations >8' Below Grade, Add	1.83
		For Curved Formwork, Add	3.65
03 11 13 00-0006	SF	Grade Beams Or Duct Bank Foundation Wood Formwork .....	8.17
		For <1,000, Add	1.55
		For Foundations >8' Below Grade, Add	1.51
		For Curved Formwork, Add	3.01
03 11 13 00-0007	SF	Below Grade Walls Foundation Wood Formwork .....	11.61
		Note: Excludes footing	
		For <1,000, Add	2.19
		For Foundations >8' Below Grade, Add	2.13
		For Curved Formwork, Add	4.26
03 11 13 00-0008		<b>Slab Edge And Block-Out Wood Formwork</b> <small>(03 11 13 00-0001)</small>	
03 11 13 00-0009	LF	Up To 6" High Slab Edge and Block-Out Wood Formwork.....	5.48
		For Foundations >8' Below Grade, Add	1.02
		For Curved Formwork, Add	2.05
		For Up To 250, Add	1.05

**03 Concrete****03 10 Concrete Forming And Accessories****03 11 Concrete Forming**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0010 LF >6" To 12" High Slab Edge and Block-Out Wood Formwork .....	7.85	
For Foundations >8' Below Grade, Add	1.43	
For Curved Formwork, Add	2.86	
For Up To 250, Add	1.48	
03 11 13 00-0011 SF >12" High Slab Edge and Block-Out Wood Formwork .....	10.08	
For Foundations >8' Below Grade, Add	1.85	
For Curved Formwork, Add	3.70	
For <1,000, Add	1.90	
<b>03 11 13 00-0012 Column Wood Formwork</b> (03 11 13 00-0001)		
03 11 13 00-0013 LF Up To 8" Square Column Wood Formwork .....	42.41	
03 11 13 00-0014 LF >8" To 12" Square Column Wood Formwork .....	61.80	
03 11 13 00-0015 LF >12" To 18" Square Column Wood Formwork .....	77.62	
03 11 13 00-0016 LF >18" To 24" Square Column Wood Formwork .....	111.32	
03 11 13 00-0017 LF >24" To 36" Square Column Wood Formwork .....	159.71	
03 11 13 00-0018 LF >36" To 48" Square Column Wood Formwork .....	210.99	
<b>03 11 13 00-0019 Above Grade Wall Wood Formwork</b> (03 11 13 00-0001)		
03 11 13 00-0020 SF Up To 8' High Above Grade Wall Wood Formwork .....	12.99	
For Curved Formwork, Add	4.81	
For <1,000, Add	2.47	
03 11 13 00-0021 SF >8' High Above Grade Wall Wood Formwork .....	15.38	
For Curved Formwork, Add	5.71	
For <1,000, Add	2.93	
<b>03 11 13 00-0022 Elevated Beam Wood Formwork</b> (03 11 13 00-0001)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0023 SF Bottom of Elevated Beam Wood Formwork .....	16.80	
For Curved Formwork, Add	6.25	
For <1,000, Add	3.20	
03 11 13 00-0024 SF Vertical Sides of Elevated Beam Wood Formwork .....	10.77	
For Curved Formwork, Add	4.00	
For <1,000, Add	2.05	
<b>03 11 13 00-0025 Elevated Slab Wood Formwork</b> (03 11 13 00-0001)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0026 SF Elevated Slab Wood Formwork .....	9.87	
For <1,000, Add	1.83	
<b>03 11 13 00-0027 Metal Framed Formwork</b> (03 11 13)		
Note: For all metal framed and metal form systems. Includes erecting, stripping, stacking, oiling, studs/walers, strongbacks, deadmen, supporting braces, tumbuckles, ties, and clips.		
<b>03 11 13 00-0028 Foundation Metal Framed Formwork</b> (03 11 13 00-0027)		
Note: For foundation work below or at grade.		
03 11 13 00-0029 SF Continuous Footings Foundation Metal Framed Formwork .....	5.92	
For <1,000, Add	1.15	
For Foundations >8' Below Grade, Add	1.13	
For Curved Formwork, Add	2.26	
03 11 13 00-0030 SF Pile Cap, Pier Or Spread Footings Foundation Metal Framed Formwork .....	6.63	
For <1,000, Add	1.29	
For Foundations >8' Below Grade, Add	1.27	
For Curved Formwork, Add	2.54	
03 11 13 00-0031 SF Mat Foundation Metal Framed Formwork .....	7.31	
For <1,000, Add	1.42	
For Foundations >8' Below Grade, Add	1.39	
For Curved Formwork, Add	2.79	
03 11 13 00-0032 SF Grade Beams Or Duct Bank Foundation Metal Framed Formwork .....	6.15	
For <1,000, Add	1.19	
For Foundations >8' Below Grade, Add	1.17	
For Curved Formwork, Add	2.34	
03 11 13 00-0033 SF Below Grade Walls Foundation Metal Framed Formwork .....	9.60	
Note: Excludes footing.		
For <1,000, Add	1.87	
For Foundations >8' Below Grade, Add	1.85	
For Curved Formwork, Add	3.69	
<b>03 11 13 00-0034 Slab Edge And Block-Out Metal Framed Formwork</b> (03 11 13 00-0027)		
03 11 13 00-0035 LF Up To 6" High Slab Edge and Block-Out Metal Framed Formwork .....	4.62	
For Foundations >8' Below Grade, Add	0.92	
For Curved Formwork, Add	1.83	
For <250, Add	0.92	
03 11 13 00-0036 LF >6" To 12" High Slab Edge and Block-Out Metal Framed Formwork .....	5.77	
For Foundations >8' Below Grade, Add	1.14	
For Curved Formwork, Add	2.28	
For <250, Add	1.14	



<b>Concrete</b>	<b>03</b>	<b>CS</b>	
<b>Concrete Forming And Accessories</b>			<b>03 10</b>
<b>Concrete Forming</b>			<b>03 11</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0037 SF >12" High Slab Edge and Block-Out Metal Framed Formwork ..... <i>For Foundations &gt;8' Below Grade, Add</i> <i>For Curved Formwork, Add</i> <i>For &lt;1,000, Add</i>	6.37 1.26 2.51 1.26	
<b>03 11 13 00-0038 Column Metal Framed Formwork</b> (03 11 13 00-0027)		
<b>03 11 13 00-0039 Square Columns</b> (03 11 13 00-0038)		
03 11 13 00-0040 LF Up To 12" Square Column Metal Framed Formwork .....	35.42	
03 11 13 00-0041 LF >12" To 16" Square Column Metal Framed Formwork .....	42.51	
03 11 13 00-0042 LF >16" To 20" Square Column Metal Framed Formwork .....	49.60	
03 11 13 00-0043 LF >20" To 24" Square Column Metal Framed Formwork .....	59.42	
03 11 13 00-0044 LF >24" To 30" Square Column Metal Framed Formwork .....	71.42	
03 11 13 00-0045 LF >30" To 36" Square Column Metal Framed Formwork .....	85.48	
03 11 13 00-0046 LF >36" To 48" Square Column Metal Framed Formwork .....	109.48	
03 11 13 00-0047 LF >48" To 60" Square Column Metal Framed Formwork .....	134.61	
<b>03 11 13 00-0048 Round Columns</b> (03 11 13 00-0038)		
03 11 13 00-0049 LF Up To 12" Diameter Column Metal Formwork .....	26.56	
03 11 13 00-0050 LF >12" To 16" Diameter Column Metal Formwork .....	30.20	
03 11 13 00-0051 LF >16" To 20" Diameter Column Metal Formwork .....	35.35	
03 11 13 00-0052 LF >20" To 24" Diameter Column Metal Formwork .....	42.49	
03 11 13 00-0053 LF >24" To 30" Diameter Column Metal Formwork .....	50.99	
03 11 13 00-0054 LF >30" To 36" Diameter Column Metal Formwork .....	59.00	
03 11 13 00-0055 LF >36" To 48" Diameter Column Metal Formwork .....	73.34	
03 11 13 00-0056 LF >48" To 60" Diameter Column Metal Formwork .....	87.99	
<b>03 11 13 00-0057 Above Grade Wall Metal Framed Formwork</b> (03 11 13 00-0027)		
03 11 13 00-0058 SF Up to 8' High Above Grade Wall Metal Framed Formwork ..... <i>For Curved Formwork, Add</i> <i>For &lt;1,000, Add</i>	5.54 2.07 1.06	
03 11 13 00-0059 SF >8' High Above Grade Wall Metal Framed Formwork..... <i>For Curved Formwork, Add</i> <i>For &lt;1,000, Add</i>	6.68 2.48 1.27	
<b>03 11 13 00-0060 Elevated Beam Metal Framed Formwork</b> (03 11 13 00-0027)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated beam.		
03 11 13 00-0061 SF Bottom of Elevated Beam Metal Framed Formwork ..... <i>For Curved Formwork, Add</i> <i>For &lt;1,000, Add</i>	5.47 1.92 1.00	
03 11 13 00-0062 SF Vertical Sides of Elevated Beam Metal Framed Formwork..... <i>For Curved Formwork, Add</i> <i>For &lt;1,000, Add</i>	4.06 1.50 0.77	
<b>03 11 13 00-0063 Elevated Slab Metal Framed Formwork</b> (03 11 13 00-0027)		
Note: Includes adjustable shores and column supports and bracing lumber up to 14' for bottom of elevated slab.		
03 11 13 00-0064 SF Elevated Slab Metal Framed Formwork..... <i>For &lt;1,000, Add</i>	7.05 1.16	
<b>03 11 13 00-0065 Fiber Tube Formwork</b> (03 11 13)		
Note: Includes all supporting braces, erecting, aligning, stripping, turnbuckles, ties and clips.		
<b>03 11 13 00-0066 Round Column Fiber Tube Formwork</b> (03 11 13 00-0065)		
03 11 13 00-0067 LF 6" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	16.22 0.48 1.62	
03 11 13 00-0068 LF 8" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	17.05 0.56 1.71	
03 11 13 00-0069 LF 10" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	18.79 0.65 1.88	
03 11 13 00-0070 LF 12" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	22.01 0.93 2.20	
03 11 13 00-0071 LF 14" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	24.67 1.26 2.47	
03 11 13 00-0072 LF 16" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	26.51 1.59 2.65	
03 11 13 00-0073 LF 18" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	27.79 1.73 2.78	
03 11 13 00-0074 LF 20" Diameter Round Fiber Tube Formwork ..... <i>For Plastic Lined, Add</i> <i>For Columns &gt;12' In Length, Add</i>	30.03 2.16 3.00	

**03 Concrete****03 10 Concrete Forming And Accessories****03 11 Concrete Forming**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 11 13 00-0075	LF		22" Diameter Round Fiber Tube Formwork .....	32.67	
			<i>For Plastic Lined, Add</i>	2.60	
			<i>For Columns &gt;12' In Length, Add</i>	3.27	
03 11 13 00-0076	LF		24" Diameter Round Fiber Tube Formwork .....	35.30	
			<i>For Plastic Lined, Add</i>	3.05	
			<i>For Columns &gt;12' In Length, Add</i>	3.53	
03 11 13 00-0077	LF		26" Diameter Round Fiber Tube Formwork .....	36.68	
			<i>For Plastic Lined, Add</i>	3.33	
			<i>For Columns &gt;12' In Length, Add</i>	3.67	
03 11 13 00-0078	LF		28" Diameter Round Fiber Tube Formwork .....	38.76	
			<i>For Plastic Lined, Add</i>	3.82	
			<i>For Columns &gt;12' In Length, Add</i>	3.88	
03 11 13 00-0079	LF		30" Diameter Round Fiber Tube Formwork .....	41.00	
			<i>For Plastic Lined, Add</i>	4.35	
			<i>For Columns &gt;12' In Length, Add</i>	4.10	
03 11 13 00-0080	LF		36" Diameter Round Fiber Tube Formwork .....	48.89	
			<i>For Plastic Lined, Add</i>	6.22	
			<i>For Columns &gt;12' In Length, Add</i>	4.89	
03 11 13 00-0081	LF		42" Diameter Round Fiber Tube Formwork .....	64.57	
			<i>For Plastic Lined, Add</i>	10.57	
			<i>For Columns &gt;12' In Length, Add</i>	6.46	
03 11 13 00-0082	LF		48" Diameter Round Fiber Tube Formwork .....	75.93	
			<i>For Plastic Lined, Add</i>	13.62	
			<i>For Columns &gt;12' In Length, Add</i>	7.59	
03 11 13 00-0083	LF		54" Diameter Round Fiber Tube Formwork .....	122.01	
			<i>For Plastic Lined, Add</i>	26.87	
			<i>For Columns &gt;12' In Length, Add</i>	12.20	
03 11 13 00-0084	LF		60" Diameter Round Fiber Tube Formwork .....	135.11	
			<i>For Plastic Lined, Add</i>	30.36	
			<i>For Columns &gt;12' In Length, Add</i>	13.51	
03 11 13 00-0085			<b>Accessories For Formwork</b> (03 11 13)		
03 11 13 00-0086			<b>Keyway Forms, All Materials</b> (03 11 13 00-0085)		
03 11 13 00-0087	LF		2" x 4" To 2" x 6" Keyway Forms for Concrete Formwork, All Materials.....	2.02	
03 11 13 00-0088			<b>Chamfer Strips, All Materials</b> (03 11 13 00-0085)		
03 11 13 00-0089	LF		1/2" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.14	
03 11 13 00-0090	LF		3/4" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.47	
03 11 13 00-0091	LF		1" Wide Chamfer Strips for Concrete Formwork, All Materials.....	2.86	
03 11 13 00-0092			<b>Strip Out Reglets For Concrete Formwork</b> (03 11 13 00-0085)		
03 11 13 00-0093	LF		24 To 26 Gauge Galvanized Steel, Strip Out Reglets For Concrete Formwork.....	9.83	
03 11 13 00-0094			<b>Sleeves And Chases, Plastic Or Sheet Metal</b> (03 11 13 00-0085)		
03 11 13 00-0095	EA		2" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	12.17	
03 11 13 00-0096	EA		4" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	14.71	
03 11 13 00-0097	EA		6" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	17.80	
03 11 13 00-0098	EA		8" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	20.19	
03 11 13 00-0099	EA		12" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	26.00	
03 11 13 00-0100	EA		18" Diameter Sleeves Or Chases for Concrete Formwork, Plastic or Sheet Metal.....	56.78	
03 11 16			<b>Architectural Cast-In-Place Concrete Forming</b> (03 11)		
03 11 16 00-0001			<b>Concrete Form Liners</b> (03 11 16)		
03 11 16 00-0002	SF		Various Patterns And Textures, 1 Use, Concrete Form Liner, Add To Formwork.....	5.15	
03 11 16 00-0003	SF		Rusticated Concrete Finish, Beveled Edge, 1 Use, Concrete Form Liner, Add To Formwork .....	6.63	
03 11 16 00-0004	SF		Rusticated Concrete Finish, Square Edge, 1 Use, Concrete Form Liner, Add To Formwork.....	8.68	
03 11 23			<b>Permanent Stair Forming</b> (03 11)		
03 11 23 00-0001			<b>Stairway Wood Formwork</b> (03 11 23)		
03 11 23 00-0002	SF		Cast On Grade Stairway Wood Formwork .....	16.44	
			<i>For Curved Formwork, Add</i>	6.34	
			<i>For &lt;1,000, Add</i>	3.21	
03 11 23 00-0003	SF		Elevated Stairway Wood Formwork.....	32.52	
			Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
			<i>For Curved Formwork, Add</i>	12.40	
			<i>For &lt;1,000, Add</i>	6.30	
03 11 23 00-0004			<b>Stairway Metal Framed Formwork</b> (03 11 23)		
03 11 23 00-0005	SF		Cast On Grade Stairway Metal Framed Formwork .....	13.15	
			<i>For Curved Formwork, Add</i>	5.16	
			<i>For &lt;1,000, Add</i>	2.60	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 11 23 00-0006	SF	Elevated Stairway Metal Framed Formwork	.....	24.58	
			Note: Includes adjustable column supports and bracing lumber up to 14' for bottom of elevated stair.		
		<i>For Curved Formwork, Add</i>		9.59	
		<i>For &lt;1,000, Add</i>		4.83	

**03 15 Concrete Accessories** (03 10)

**03 15 13 Waterstops** (03 15)

**03 15 13 13 Non-Expanding Waterstops** (03 15 13)

**03 15 13 13-0001 Polyvinyl Chloride (PVC) Waterstops** (03 15 13 13)

03 15 13 13-0002	LF	3/16" Thick x 4" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	.....	7.86	
03 15 13 13-0003	LF	3/16" Thick x 6" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	.....	8.81	
03 15 13 13-0004	LF	3/16" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	.....	10.53	
03 15 13 13-0005	LF	3/8" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop With Center Bulb	.....	11.50	
03 15 13 13-0006	LF	1/2" Thick x 9" Wide Ribbed Polyvinyl Chloride (PVC) Waterstop	.....	16.89	
03 15 13 13-0007	LF	3/16" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	.....	8.44	
03 15 13 13-0008	LF	3/8" Thick x 6" Wide Dumbbell Polyvinyl Chloride (PVC) Waterstop	.....	10.63	
03 15 13 13-0009	LF	3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop	.....	18.38	
03 15 13 13-0010	LF	3/8" Thick x 9" Wide Plain Polyvinyl Chloride (PVC) Waterstop With Center Bulb	.....	14.68	

**03 15 13 13-0011 Rubber Waterstops** (03 15 13 13)

03 15 13 13-0012	LF	3/8" Thick x 6" Wide Rubber Dumbbell Waterstop	.....	8.96	
03 15 13 13-0013	LF	3/8" Thick x 9" Wide Rubber Dumbbell Waterstop	.....	10.29	
03 15 13 13-0014	LF	1/4" Thick x 6" Wide Rubber Waterstop, With Center Bulb	.....	9.38	
03 15 13 13-0015	LF	1/4" Thick x 9" Wide Rubber Waterstop, With Center Bulb	.....	12.85	
03 15 13 13-0016	LF	3/8" Thick x 6" Wide Rubber Waterstop, With Center Bulb	.....	10.66	
03 15 13 13-0017	LF	3/8" Thick x 9" Wide Rubber Waterstop, With Center Bulb	.....	13.65	

**03 15 13 16 Expanding Waterstops** (03 15 13)

**03 15 13 16-0001 Bentonite Waterstops** (03 15 13 16)

03 15 13 16-0002	LF	3/4" x 3/8" Bentonite Waterstop	.....	6.90	
03 15 13 16-0003	LF	1-1/4" x 1/2" Bentonite Waterstop	.....	10.46	
03 15 13 16-0004	LF	1" x 3/4" Bentonite Waterstop	.....	11.73	
03 15 13 16-0005	LF	1" x 1" Bentonite Waterstop	.....	13.22	

**03 15 16 Concrete Construction Joints** (03 15)

**03 15 16 00-0001 Poured Expansion Joint** (03 15 16)

03 15 16 00-0002	LF	1/2" x 1" Plain Asphalt Expansion Joint, Poured	.....	2.11	0.69
		<i>For Installation In Walls, Add</i>		1.16	
03 15 16 00-0003	LF	1" x 2" Plain Asphalt Expansion Joint, Poured	.....	3.76	0.69
		<i>For Installation In Walls, Add</i>		1.31	
03 15 16 00-0004	LF	1/2" x 1" Liquid Neoprene Expansion Joint, Poured, Cold Applied	.....	2.65	0.69
		<i>For Installation In Walls, Add</i>		1.16	
03 15 16 00-0005	LF	1" x 2" Liquid Neoprene Expansion Joint, Poured, Cold Applied	.....	6.20	0.69
		<i>For Installation In Walls, Add</i>		1.31	
03 15 16 00-0006	LF	1/2" x 1" Polyurethane Expansion Joint, Poured, 2 Parts	.....	3.80	0.69
		<i>For Installation In Walls, Add</i>		1.31	
03 15 16 00-0007	LF	1" x 2" Polyurethane Expansion Joint, Poured, Poured, 2 Parts	.....	6.92	0.69
		<i>For Installation In Walls, Add</i>		2.12	
03 15 16 00-0008	LF	1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Or Cold Applied	.....	1.73	0.69
		<i>For Installation In Walls, Add</i>		1.16	
03 15 16 00-0009	LF	1/2" x 1" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	.....	1.94	0.69
		<i>For Installation In Walls, Add</i>		1.16	
03 15 16 00-0010	LF	1" x 2" Rubberized Asphalt Expansion Joint, Poured, Hot Applied Fuel Resistant	.....	2.46	0.69
		<i>For Installation In Walls, Add</i>		1.31	

**03 15 16 00-0011 Premolded Expansion Joints** (03 15 16)

**03 15 16 00-0012 Asphalt Saturated Fiber, Premolded Expansion Joints** (03 15 16 00-0011)

03 15 16 00-0013	LF	1/4" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	2.14	1.01
03 15 16 00-0014	LF	1/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	2.38	1.07
03 15 16 00-0015	LF	1/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	2.54	1.12
03 15 16 00-0016	LF	1/4" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	2.71	1.17
03 15 16 00-0017	LF	3/8" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	2.27	1.01
03 15 16 00-0018	LF	3/8" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	2.48	1.07
03 15 16 00-0019	LF	3/8" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	2.73	1.12
03 15 16 00-0020	LF	3/8" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	3.07	1.17
03 15 16 00-0021	LF	1/2" x 2" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	2.09	0.96
03 15 16 00-0022	LF	1/2" x 3" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	2.25	1.01
03 15 16 00-0023	LF	1/2" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	2.43	1.07
03 15 16 00-0024	LF	1/2" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	2.59	1.12
03 15 16 00-0025	LF	1/2" x 6" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	2.78	1.17
03 15 16 00-0026	LF	1/2" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	3.03	1.22
03 15 16 00-0027	LF	1/2" x 10" Asphalt Saturated Fiber, Premolded Expansion Joint	.....	3.23	1.27



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 16 00-0028	LF		1/2" x 12" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.55	1.32
03 15 16 00-0029	LF		3/4" x 4" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.44	1.07
03 15 16 00-0030	LF		3/4" x 5" Asphalt Saturated Fiber, Premolded Expansion Joint.....	2.72	1.12
03 15 16 00-0031	LF		3/4" x 8" Asphalt Saturated Fiber, Premolded Expansion Joint.....	3.23	1.22
03 15 16 00-0032	SF		1" Asphalt Saturated Fiber, Premolded Expansion Joint.....	5.29	1.68
<b>03 15 16 00-0033</b>			<b>Cork, Premolded Expansion Joints</b> (03 15 16 00-0011)		
03 15 16 00-0034	LF		1/2" x 4" Cork, Premolded Expansion Joint .....	3.17	1.07
03 15 16 00-0035	LF		1/2" x 6" Cork, Premolded Expansion Joint .....	3.55	1.17
03 15 16 00-0036	LF		1/2" x 8" Cork, Premolded Expansion Joint .....	3.82	1.22
03 15 16 00-0037	LF		1/2" x 10" Cork, Premolded Expansion Joint.....	5.04	1.27
03 15 16 00-0038	LF		1/2" x 12" Cork, Premolded Expansion Joint.....	5.34	1.32
03 15 16 00-0039	SF		1/2" Cork, Premolded Expansion Joint.....	6.07	1.68
03 15 16 00-0040	SF		3/4" Cork, Premolded Expansion Joint.....	6.84	1.68
03 15 16 00-0041	SF		1" Cork, Premolded Expansion Joint .....	7.20	1.68
<b>03 15 16 00-0042</b>			<b>Flexible Polyethylene Foam, Premolded Expansion Joints</b> (03 15 16 00-0011)		
03 15 16 00-0043	LF		1/4" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint .....	2.29	1.07
03 15 16 00-0044	LF		1/4" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint .....	2.40	1.12
03 15 16 00-0045	LF		1/4" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint .....	2.52	1.17
03 15 16 00-0046	LF		1/4" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint .....	2.83	1.22
03 15 16 00-0047	LF		1/2" x 4" Flexible Polyethylene Foam, Premolded Expansion Joint .....	2.34	1.07
03 15 16 00-0048	LF		1/2" x 5" Flexible Polyethylene Foam, Premolded Expansion Joint .....	2.45	1.12
03 15 16 00-0049	LF		1/2" x 6" Flexible Polyethylene Foam, Premolded Expansion Joint .....	2.55	1.17
03 15 16 00-0050	LF		1/2" x 8" Flexible Polyethylene Foam, Premolded Expansion Joint .....	2.75	1.22
<b>03 15 16 00-0051</b>			<b>Zip Strip, Premolded Expansion Joints</b> (03 15 16 00-0011)		
03 15 16 00-0052	LF		1" Zip Strip, Premolded Expansion Joint.....	2.31	1.07
03 15 16 00-0053	LF		1-1/2" Zip Strip, Premolded Expansion Joint.....	2.49	1.12
03 15 16 00-0054	LF		2" Zip Strip, Premolded Expansion Joint.....	2.75	1.22
<b>03 15 16 00-0055</b>			<b>Sponge Rubber, Premolded Expansion Joints</b> (03 15 16 00-0011)		
03 15 16 00-0056	LF		1/2" x 4" Sponge Rubber, Premolded Expansion Joint.....	4.14	1.01
03 15 16 00-0057	LF		1/2" x 6" Sponge Rubber, Premolded Expansion Joint .....	4.96	1.01
<b>03 15 16 00-0058</b>			<b>Asphalt Felt Control Joints Or Bond Breaker</b> (03 15 16)		
03 15 16 00-0059	SF		Asphalt Felt Control Joint, 30 LB Felt Bond Breaker.....	1.07	0.76
			>1,250, Deduct	-0.05	
03 15 16 00-0060	SF		Asphalt Felt Control Joint, 15 LB Felt Bond Breaker.....	1.04	0.76
			>1,250, Deduct	-0.05	
<b>03 15 16 00-0061</b>			<b>Keyed Cold Expansion And Control Joints</b> (03 15 16)		
<b>03 15 16 00-0062</b>			<b>24 Gauge Galvanized Steel With Stakes</b> (03 15 16 00-0061)		
03 15 16 00-0063	LF		24 Gauge Galvanized Steel Keyed Joint, 3-1/2" Cold Expansion Or Control Joint.....	5.83	
03 15 16 00-0064	LF		24 Gauge Galvanized Steel Keyed Joint, 4-1/2" Cold Expansion Or Control Joint.....	5.95	
03 15 16 00-0065	LF		24 Gauge Galvanized Steel Keyed Joint, 5-1/2" Cold Expansion Or Control Joint.....	6.17	
03 15 16 00-0066	LF		24 Gauge Galvanized Steel Keyed Joint, 7-1/2" Cold Expansion Or Control Joint.....	6.54	
03 15 16 00-0067	LF		24 Gauge Galvanized Steel Keyed Joint, 9-1/2" Cold Expansion Or Control Joint.....	8.26	
<b>03 15 19</b>			<b>Cast-In Concrete Anchors</b> (03 15)		
<b>03 15 19 00-0001</b>			<b>Cast In Place Anchors</b> (03 15 19) Note: For cast in place installations. Includes nut and washer.		
<b>03 15 19 00-0002</b>			<b>J-Type Anchor Bolts</b> (03 15 19 00-0001) See CSI section 03 11 13 00-0002 for template.		
<b>03 15 19 00-0003</b>			<b>1/2" And 5/8" Diameter</b> (03 15 19 00-0002)		
03 15 19 00-0004	EA		1/2" Diameter x 6" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	7.35	
			For Galvanized, Add	0.79	
			For Stainless Steel, Add	5.53	
			For >10 To 50, Deduct	-0.29	
			For >50 To 100, Deduct	-0.62	
			For >100, Deduct	-1.23	
03 15 19 00-0005	EA		1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	8.22	
			For Galvanized, Add	1.01	
			For Stainless Steel, Add	7.04	
			For >10 To 50, Deduct	-0.31	
			For >50 To 100, Deduct	-0.67	
			For >100, Deduct	-1.34	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0006	EA		1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt ..... 9.50		
			<i>For Galvanized, Add</i>	1.39	
			<i>For Stainless Steel, Add</i>	9.70	
			<i>For &gt;10 To 50, Deduct</i>	-0.34	
			<i>For &gt;50 To 100, Deduct</i>	-0.74	
			<i>For &gt;100, Deduct</i>	-1.48	
03 15 19 00-0007	EA		5/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt ..... 10.35		
			<i>For Galvanized, Add</i>	1.81	
			<i>For Stainless Steel, Add</i>	12.67	
			<i>For &gt;10 To 50, Deduct</i>	-0.34	
			<i>For &gt;50 To 100, Deduct</i>	-0.76	
			<i>For &gt;100, Deduct</i>	-1.53	
03 15 19 00-0008	EA		5/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt ..... 12.17		
			<i>For Galvanized, Add</i>	2.42	
			<i>For Stainless Steel, Add</i>	16.91	
			<i>For &gt;10 To 50, Deduct</i>	-0.37	
			<i>For &gt;50 To 100, Deduct</i>	-0.85	
			<i>For &gt;100, Deduct</i>	-1.71	
03 15 19 00-0009	EA		5/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt ..... 13.59		
			<i>For Galvanized, Add</i>	2.76	
			<i>For Stainless Steel, Add</i>	19.32	
			<i>For &gt;10 To 50, Deduct</i>	-0.40	
			<i>For &gt;50 To 100, Deduct</i>	-0.95	
			<i>For &gt;100, Deduct</i>	-1.89	
03 15 19 00-0010	<b>3/4" And 7/8" Diameter</b> (03 15 19 00-0002)				
03 15 19 00-0011	EA		3/4" Diameter x 8" Length, Plain Steel, J-Type Cast In Place Anchor Bolt ..... 13.55		
			<i>For Galvanized, Add</i>	2.74	
			<i>For Stainless Steel, Add</i>	19.18	
			<i>For &gt;10 To 50, Deduct</i>	-0.40	
			<i>For &gt;50 To 100, Deduct</i>	-0.94	
			<i>For &gt;100, Deduct</i>	-1.89	
03 15 19 00-0012	EA		3/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt ..... 15.36		
			<i>For Galvanized, Add</i>	3.20	
			<i>For Stainless Steel, Add</i>	22.37	
			<i>For &gt;10 To 50, Deduct</i>	-0.45	
			<i>For &gt;50 To 100, Deduct</i>	-1.06	
			<i>For &gt;100, Deduct</i>	-2.11	
03 15 19 00-0013	EA		3/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt ..... 18.28		
			<i>For Galvanized, Add</i>	4.10	
			<i>For Stainless Steel, Add</i>	28.67	
			<i>For &gt;10 To 50, Deduct</i>	-0.50	
			<i>For &gt;50 To 100, Deduct</i>	-1.21	
			<i>For &gt;100, Deduct</i>	-2.43	
03 15 19 00-0014	EA		3/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt ..... 21.62		
			<i>For Galvanized, Add</i>	5.16	
			<i>For Stainless Steel, Add</i>	36.12	
			<i>For &gt;10 To 50, Deduct</i>	-0.57	
			<i>For &gt;50 To 100, Deduct</i>	-1.39	
			<i>For &gt;100, Deduct</i>	-2.78	
03 15 19 00-0015	EA		7/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt ..... 17.59		
			<i>For Galvanized, Add</i>	3.75	
			<i>For Stainless Steel, Add</i>	26.25	
			<i>For &gt;10 To 50, Deduct</i>	-0.50	
			<i>For &gt;50 To 100, Deduct</i>	-1.20	
			<i>For &gt;100, Deduct</i>	-2.39	
03 15 19 00-0016	EA		7/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt ..... 20.51		
			<i>For Galvanized, Add</i>	4.49	
			<i>For Stainless Steel, Add</i>	31.43	
			<i>For &gt;10 To 50, Deduct</i>	-0.58	
			<i>For &gt;50 To 100, Deduct</i>	-1.38	
			<i>For &gt;100, Deduct</i>	-2.76	
03 15 19 00-0017	EA		7/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt ..... 25.41		
			<i>For Galvanized, Add</i>	5.98	
			<i>For Stainless Steel, Add</i>	41.86	
			<i>For &gt;10 To 50, Deduct</i>	-0.67	
			<i>For &gt;50 To 100, Deduct</i>	-1.64	
			<i>For &gt;100, Deduct</i>	-3.29	
03 15 19 00-0018	<b>1" And 1-1/8" Diameter</b> (03 15 19 00-0002)				
03 15 19 00-0019	EA		1" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt ..... 21.23		
			<i>For Galvanized, Add</i>	4.85	
			<i>For Stainless Steel, Add</i>	33.95	
			<i>For &gt;10 To 50, Deduct</i>	-0.58	
			<i>For &gt;50 To 100, Deduct</i>	-1.40	
			<i>For &gt;100, Deduct</i>	-2.79	
03 15 19 00-0020	EA		1" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt ..... 25.12		
			<i>For Galvanized, Add</i>	5.84	
			<i>For Stainless Steel, Add</i>	40.85	
			<i>For &gt;10 To 50, Deduct</i>	-0.67	
			<i>For &gt;50 To 100, Deduct</i>	-1.64	
			<i>For &gt;100, Deduct</i>	-3.27	

**03 Concrete****03 10 Concrete Forming And Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0021	EA		1" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	30.77	
			<i>For Galvanized, Add</i>	7.32	
			<i>For Stainless Steel, Add</i>	51.21	
			<i>For &gt;10 To 50, Deduct</i>	-0.81	
			<i>For &gt;50 To 100, Deduct</i>	-1.98	
			<i>For &gt;100, Deduct</i>	-3.96	
03 15 19 00-0022	EA		1" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	38.05	
			<i>For Galvanized, Add</i>	8.94	
			<i>For Stainless Steel, Add</i>	62.55	
			<i>For &gt;10 To 50, Deduct</i>	-1.01	
			<i>For &gt;50 To 100, Deduct</i>	-2.46	
			<i>For &gt;100, Deduct</i>	-4.93	
03 15 19 00-0023	EA		1-1/8" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	24.78	
			<i>For Galvanized, Add</i>	6.06	
			<i>For Stainless Steel, Add</i>	42.42	
			<i>For &gt;10 To 50, Deduct</i>	-0.63	
			<i>For &gt;50 To 100, Deduct</i>	-1.57	
			<i>For &gt;100, Deduct</i>	-3.14	
03 15 19 00-0024	EA		1-1/8" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	29.36	
			<i>For Galvanized, Add</i>	7.30	
			<i>For Stainless Steel, Add</i>	51.07	
			<i>For &gt;10 To 50, Deduct</i>	-0.74	
			<i>For &gt;50 To 100, Deduct</i>	-1.84	
			<i>For &gt;100, Deduct</i>	-3.68	
03 15 19 00-0025	EA		1-1/8" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	36.01	
			<i>For Galvanized, Add</i>	9.15	
			<i>For Stainless Steel, Add</i>	64.02	
			<i>For &gt;10 To 50, Deduct</i>	-0.89	
			<i>For &gt;50 To 100, Deduct</i>	-2.23	
			<i>For &gt;100, Deduct</i>	-4.46	
03 15 19 00-0026	EA		1-1/8" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	44.50	
			<i>For Galvanized, Add</i>	11.17	
			<i>For Stainless Steel, Add</i>	78.19	
			<i>For &gt;10 To 50, Deduct</i>	-1.11	
			<i>For &gt;50 To 100, Deduct</i>	-2.77	
			<i>For &gt;100, Deduct</i>	-5.55	
<b>03 15 19 00-0027</b>			<b>1-1/4" And 1-1/2" Diameter</b> <small>(03 15 19 00-0002)</small>		
03 15 19 00-0028	EA		1-1/4" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	29.17	
			<i>For Galvanized, Add</i>	7.58	
			<i>For Stainless Steel, Add</i>	53.03	
			<i>For &gt;10 To 50, Deduct</i>	-0.70	
			<i>For &gt;50 To 100, Deduct</i>	-1.78	
			<i>For &gt;100, Deduct</i>	-3.56	
03 15 19 00-0029	EA		1-1/4" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	34.60	
			<i>For Galvanized, Add</i>	9.12	
			<i>For Stainless Steel, Add</i>	63.84	
			<i>For &gt;10 To 50, Deduct</i>	-0.82	
			<i>For &gt;50 To 100, Deduct</i>	-2.09	
			<i>For &gt;100, Deduct</i>	-4.18	
03 15 19 00-0030	EA		1-1/4" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	42.49	
			<i>For Galvanized, Add</i>	11.43	
			<i>For Stainless Steel, Add</i>	80.01	
			<i>For &gt;10 To 50, Deduct</i>	-0.98	
			<i>For &gt;50 To 100, Deduct</i>	-2.53	
			<i>For &gt;100, Deduct</i>	-5.07	
03 15 19 00-0031	EA		1-1/4" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	52.45	
			<i>For Galvanized, Add</i>	13.96	
			<i>For Stainless Steel, Add</i>	97.72	
			<i>For &gt;10 To 50, Deduct</i>	-1.23	
			<i>For &gt;50 To 100, Deduct</i>	-3.15	
			<i>For &gt;100, Deduct</i>	-6.30	
03 15 19 00-0032	EA		1-1/2" Diameter x 12" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	34.66	
			<i>For Galvanized, Add</i>	9.47	
			<i>For Stainless Steel, Add</i>	66.29	
			<i>For &gt;10 To 50, Deduct</i>	-0.79	
			<i>For &gt;50 To 100, Deduct</i>	-2.05	
			<i>For &gt;100, Deduct</i>	-4.09	
03 15 19 00-0033	EA		1-1/2" Diameter x 18" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	41.14	
			<i>For Galvanized, Add</i>	11.40	
			<i>For Stainless Steel, Add</i>	79.77	
			<i>For &gt;10 To 50, Deduct</i>	-0.92	
			<i>For &gt;50 To 100, Deduct</i>	-2.40	
			<i>For &gt;100, Deduct</i>	-4.81	
03 15 19 00-0034	EA		1-1/2" Diameter x 24" Length, Plain Steel, J-Type Cast In Place Anchor Bolt .....	50.60	
			<i>For Galvanized, Add</i>	14.29	
			<i>For Stainless Steel, Add</i>	100.03	
			<i>For &gt;10 To 50, Deduct</i>	-1.10	
			<i>For &gt;50 To 100, Deduct</i>	-2.92	
			<i>For &gt;100, Deduct</i>	-5.83	





<b>Concrete</b>	<b>03</b>	<b>CS</b>	
<b>Concrete Forming And Accessories</b>			<b>03 10</b>
<b>Concrete Accessories</b>			<b>03 15</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0035 EA 1-1/2" Diameter x 36" Length, Plain Steel, J-Type Cast In Place Anchor Bolt.....	62.42	
For Galvanized, Add	17.46	
For Stainless Steel, Add	122.19	
For >10 To 50, Deduct	-1.38	
For >50 To 100, Deduct	-3.62	
For >100, Deduct	-7.25	
<b>03 15 19 00-0036 L-Type Anchor Bolts</b> (03 15 19 00-0001)		
See CSI section 03 11 13 00-0002 for template.		
<b>03 15 19 00-0037 3/4" And 7/8" Diameter</b> (03 15 19 00-0036)		
03 15 19 00-0038 EA 3/4" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	13.16	
For Galvanized, Add	2.10	
For Stainless Steel, Add	14.67	
For >10 To 50, Deduct	-0.45	
For >50 To 100, Deduct	-1.00	
For >100, Deduct	-2.00	
03 15 19 00-0039 EA 3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	15.27	
For Galvanized, Add	2.59	
For Stainless Steel, Add	18.13	
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.14	
For >100, Deduct	-2.28	
03 15 19 00-0040 EA 3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	17.47	
For Galvanized, Add	2.97	
For Stainless Steel, Add	20.79	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.60	
03 15 19 00-0041 EA 3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	19.61	
For Galvanized, Add	3.08	
For Stainless Steel, Add	21.56	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.50	
For >100, Deduct	-3.00	
03 15 19 00-0042 EA 3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	22.61	
For Galvanized, Add	3.24	
For Stainless Steel, Add	22.65	
For >10 To 50, Deduct	-0.81	
For >50 To 100, Deduct	-1.78	
For >100, Deduct	-3.55	
03 15 19 00-0043 EA 7/8" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	15.29	
For Galvanized, Add	2.60	
For Stainless Steel, Add	18.20	
For >10 To 50, Deduct	-0.50	
For >50 To 100, Deduct	-1.14	
For >100, Deduct	-2.28	
03 15 19 00-0044 EA 7/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	17.59	
For Galvanized, Add	3.03	
For Stainless Steel, Add	21.21	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.61	
03 15 19 00-0045 EA 7/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	20.39	
For Galvanized, Add	3.47	
For Stainless Steel, Add	24.29	
For >10 To 50, Deduct	-0.67	
For >50 To 100, Deduct	-1.52	
For >100, Deduct	-3.04	
03 15 19 00-0046 EA 7/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	23.35	
For Galvanized, Add	3.61	
For Stainless Steel, Add	25.24	
For >10 To 50, Deduct	-0.81	
For >50 To 100, Deduct	-1.79	
For >100, Deduct	-3.59	
03 15 19 00-0047 EA 7/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	27.75	
For Galvanized, Add	3.79	
For Stainless Steel, Add	26.50	
For >10 To 50, Deduct	-1.01	
For >50 To 100, Deduct	-2.21	
For >100, Deduct	-4.41	
<b>03 15 19 00-0048 1" And 1-1/8" Diameter</b> (03 15 19 00-0036)		
03 15 19 00-0049 EA 1" Diameter x 12" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	18.20	
For Galvanized, Add	3.34	
For Stainless Steel, Add	23.35	
For >10 To 50, Deduct	-0.58	
For >50 To 100, Deduct	-1.32	
For >100, Deduct	-2.64	

**03 Concrete****03 10 Concrete Forming And Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0050	EA		1" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	20.95	
			<i>For Galvanized, Add</i>	3.75	
			<i>For Stainless Steel, Add</i>	26.25	
			<i>For &gt;10 To 50, Deduct</i>	-0.67	
			<i>For &gt;50 To 100, Deduct</i>	-1.53	
			<i>For &gt;100, Deduct</i>	-3.07	
03 15 19 00-0051	EA		1" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	24.52	
			<i>For Galvanized, Add</i>	4.19	
			<i>For Stainless Steel, Add</i>	29.33	
			<i>For &gt;10 To 50, Deduct</i>	-0.81	
			<i>For &gt;50 To 100, Deduct</i>	-1.82	
			<i>For &gt;100, Deduct</i>	-3.65	
03 15 19 00-0052	EA		1" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	26.32	
			<i>For Galvanized, Add</i>	4.39	
			<i>For Stainless Steel, Add</i>	30.73	
			<i>For &gt;10 To 50, Deduct</i>	-0.88	
			<i>For &gt;50 To 100, Deduct</i>	-1.97	
			<i>For &gt;100, Deduct</i>	-3.95	
03 15 19 00-0053	EA		1" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	29.37	
			<i>For Galvanized, Add</i>	4.60	
			<i>For Stainless Steel, Add</i>	32.17	
			<i>For &gt;10 To 50, Deduct</i>	-1.01	
			<i>For &gt;50 To 100, Deduct</i>	-2.25	
			<i>For &gt;100, Deduct</i>	-4.50	
03 15 19 00-0054	EA		1" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	33.07	
			<i>For Galvanized, Add</i>	5.33	
			<i>For Stainless Steel, Add</i>	37.28	
			<i>For &gt;10 To 50, Deduct</i>	-1.12	
			<i>For &gt;50 To 100, Deduct</i>	-2.51	
			<i>For &gt;100, Deduct</i>	-5.02	
03 15 19 00-0055	EA		1" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	39.37	
			<i>For Galvanized, Add</i>	6.24	
			<i>For Stainless Steel, Add</i>	43.65	
			<i>For &gt;10 To 50, Deduct</i>	-1.35	
			<i>For &gt;50 To 100, Deduct</i>	-3.00	
			<i>For &gt;100, Deduct</i>	-6.00	
03 15 19 00-0056	EA		1-1/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	22.22	
			<i>For Galvanized, Add</i>	4.39	
			<i>For Stainless Steel, Add</i>	30.70	
			<i>For &gt;10 To 50, Deduct</i>	-0.67	
			<i>For &gt;50 To 100, Deduct</i>	-1.56	
			<i>For &gt;100, Deduct</i>	-3.13	
03 15 19 00-0057	EA		1-1/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	25.95	
			<i>For Galvanized, Add</i>	4.91	
			<i>For Stainless Steel, Add</i>	34.34	
			<i>For &gt;10 To 50, Deduct</i>	-0.81	
			<i>For &gt;50 To 100, Deduct</i>	-1.86	
			<i>For &gt;100, Deduct</i>	-3.72	
03 15 19 00-0058	EA		1-1/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	27.81	
			<i>For Galvanized, Add</i>	5.14	
			<i>For Stainless Steel, Add</i>	35.95	
			<i>For &gt;10 To 50, Deduct</i>	-0.88	
			<i>For &gt;50 To 100, Deduct</i>	-2.01	
			<i>For &gt;100, Deduct</i>	-4.02	
03 15 19 00-0059			<b>1-1/4" And 1-3/8" Diameter</b> <small>(03 15 19 00-0036)</small> .....	26.74	
03 15 19 00-0060	EA		1-1/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	26.74	
			<i>For Galvanized, Add</i>	5.30	
			<i>For Stainless Steel, Add</i>	37.10	
			<i>For &gt;10 To 50, Deduct</i>	-0.81	
			<i>For &gt;50 To 100, Deduct</i>	-1.88	
			<i>For &gt;100, Deduct</i>	-3.76	
03 15 19 00-0061	EA		1-1/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	32.59	
			<i>For Galvanized, Add</i>	6.21	
			<i>For Stainless Steel, Add</i>	43.44	
			<i>For &gt;10 To 50, Deduct</i>	-1.01	
			<i>For &gt;50 To 100, Deduct</i>	-2.33	
			<i>For &gt;100, Deduct</i>	-4.66	
03 15 19 00-0062	EA		1-1/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	35.29	
			<i>For Galvanized, Add</i>	7.03	
			<i>For Stainless Steel, Add</i>	49.18	
			<i>For &gt;10 To 50, Deduct</i>	-1.06	
			<i>For &gt;50 To 100, Deduct</i>	-2.48	
			<i>For &gt;100, Deduct</i>	-4.95	
03 15 19 00-0063	EA		1-1/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	38.29	
			<i>For Galvanized, Add</i>	7.94	
			<i>For Stainless Steel, Add</i>	55.55	
			<i>For &gt;10 To 50, Deduct</i>	-1.12	
			<i>For &gt;50 To 100, Deduct</i>	-2.64	
			<i>For &gt;100, Deduct</i>	-5.28	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0064	EA		1-1/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	42.48	
			<i>For Galvanized, Add</i>	8.63	
			<i>For Stainless Steel, Add</i>	60.41	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-2.95	
			<i>For &gt;100, Deduct</i>	-5.91	
03 15 19 00-0065	EA		1-1/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	47.31	
			<i>For Galvanized, Add</i>	9.24	
			<i>For Stainless Steel, Add</i>	64.68	
			<i>For &gt;10 To 50, Deduct</i>	-1.44	
			<i>For &gt;50 To 100, Deduct</i>	-3.35	
			<i>For &gt;100, Deduct</i>	-6.69	
03 15 19 00-0066	EA		1-1/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	53.43	
			<i>For Galvanized, Add</i>	9.90	
			<i>For Stainless Steel, Add</i>	69.27	
			<i>For &gt;10 To 50, Deduct</i>	-1.68	
			<i>For &gt;50 To 100, Deduct</i>	-3.86	
			<i>For &gt;100, Deduct</i>	-7.72	
03 15 19 00-0067	EA		1-1/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	62.24	
			<i>For Galvanized, Add</i>	10.94	
			<i>For Stainless Steel, Add</i>	76.58	
			<i>For &gt;10 To 50, Deduct</i>	-2.02	
			<i>For &gt;50 To 100, Deduct</i>	-4.58	
			<i>For &gt;100, Deduct</i>	-9.17	
03 15 19 00-0068	EA		1-3/8" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	29.40	
			<i>For Galvanized, Add</i>	6.63	
			<i>For Stainless Steel, Add</i>	46.41	
			<i>For &gt;10 To 50, Deduct</i>	-0.81	
			<i>For &gt;50 To 100, Deduct</i>	-1.95	
			<i>For &gt;100, Deduct</i>	-3.89	
03 15 19 00-0069	EA		1-3/8" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	35.69	
			<i>For Galvanized, Add</i>	7.76	
			<i>For Stainless Steel, Add</i>	54.29	
			<i>For &gt;10 To 50, Deduct</i>	-1.01	
			<i>For &gt;50 To 100, Deduct</i>	-2.41	
			<i>For &gt;100, Deduct</i>	-4.81	
03 15 19 00-0070	EA		1-3/8" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	38.81	
			<i>For Galvanized, Add</i>	8.79	
			<i>For Stainless Steel, Add</i>	61.50	
			<i>For &gt;10 To 50, Deduct</i>	-1.06	
			<i>For &gt;50 To 100, Deduct</i>	-2.56	
			<i>For &gt;100, Deduct</i>	-5.13	
03 15 19 00-0071	EA		1-3/8" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	42.25	
			<i>For Galvanized, Add</i>	9.92	
			<i>For Stainless Steel, Add</i>	69.41	
			<i>For &gt;10 To 50, Deduct</i>	-1.12	
			<i>For &gt;50 To 100, Deduct</i>	-2.74	
			<i>For &gt;100, Deduct</i>	-5.48	
03 15 19 00-0072	EA		1-3/8" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	46.80	
			<i>For Galvanized, Add</i>	10.79	
			<i>For Stainless Steel, Add</i>	75.53	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-3.06	
			<i>For &gt;100, Deduct</i>	-6.12	
03 15 19 00-0073	EA		1-3/8" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	51.94	
			<i>For Galvanized, Add</i>	11.56	
			<i>For Stainless Steel, Add</i>	80.89	
			<i>For &gt;10 To 50, Deduct</i>	-1.44	
			<i>For &gt;50 To 100, Deduct</i>	-3.46	
			<i>For &gt;100, Deduct</i>	-6.92	
03 15 19 00-0074	EA		1-3/8" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	58.57	
			<i>For Galvanized, Add</i>	12.47	
			<i>For Stainless Steel, Add</i>	87.26	
			<i>For &gt;10 To 50, Deduct</i>	-1.68	
			<i>For &gt;50 To 100, Deduct</i>	-3.99	
			<i>For &gt;100, Deduct</i>	-7.97	
03 15 19 00-0075	EA		1-3/8" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	67.71	
			<i>For Galvanized, Add</i>	13.68	
			<i>For Stainless Steel, Add</i>	95.73	
			<i>For &gt;10 To 50, Deduct</i>	-2.02	
			<i>For &gt;50 To 100, Deduct</i>	-4.72	
			<i>For &gt;100, Deduct</i>	-9.44	
<b>03 15 19 00-0076</b>			<b>1-1/2", 1-3/4", And 2" Diameter</b> <small>(03 15 19 00-0036)</small>		
03 15 19 00-0077	EA		1-1/2" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	36.72	
			<i>For Galvanized, Add</i>	9.19	
			<i>For Stainless Steel, Add</i>	64.30	
			<i>For &gt;10 To 50, Deduct</i>	-0.92	
			<i>For &gt;50 To 100, Deduct</i>	-2.29	
			<i>For &gt;100, Deduct</i>	-4.59	

**03 Concrete****03 10 Concrete Forming And Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0078	EA		1-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	40.51	
			<i>For Galvanized, Add</i>	9.64	
			<i>For Stainless Steel, Add</i>	67.45	
			<i>For &gt;10 To 50, Deduct</i>	-1.06	
			<i>For &gt;50 To 100, Deduct</i>	-2.61	
			<i>For &gt;100, Deduct</i>	-5.21	
03 15 19 00-0079	EA		1-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	44.95	
			<i>For Galvanized, Add</i>	10.61	
			<i>For Stainless Steel, Add</i>	74.24	
			<i>For &gt;10 To 50, Deduct</i>	-1.19	
			<i>For &gt;50 To 100, Deduct</i>	-2.90	
			<i>For &gt;100, Deduct</i>	-5.81	
03 15 19 00-0080	EA		1-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	48.39	
			<i>For Galvanized, Add</i>	11.59	
			<i>For Stainless Steel, Add</i>	81.10	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-3.10	
			<i>For &gt;100, Deduct</i>	-6.20	
03 15 19 00-0081	EA		1-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	52.03	
			<i>For Galvanized, Add</i>	12.57	
			<i>For Stainless Steel, Add</i>	87.96	
			<i>For &gt;10 To 50, Deduct</i>	-1.35	
			<i>For &gt;50 To 100, Deduct</i>	-3.32	
			<i>For &gt;100, Deduct</i>	-6.64	
03 15 19 00-0082	EA		1-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	58.06	
			<i>For Galvanized, Add</i>	13.51	
			<i>For Stainless Steel, Add</i>	94.57	
			<i>For &gt;10 To 50, Deduct</i>	-1.55	
			<i>For &gt;50 To 100, Deduct</i>	-3.78	
			<i>For &gt;100, Deduct</i>	-7.56	
03 15 19 00-0083	EA		1-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	65.92	
			<i>For Galvanized, Add</i>	14.62	
			<i>For Stainless Steel, Add</i>	102.31	
			<i>For &gt;10 To 50, Deduct</i>	-1.83	
			<i>For &gt;50 To 100, Deduct</i>	-4.40	
			<i>For &gt;100, Deduct</i>	-8.80	
03 15 19 00-0084	EA		1-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	77.27	
			<i>For Galvanized, Add</i>	16.21	
			<i>For Stainless Steel, Add</i>	113.47	
			<i>For &gt;10 To 50, Deduct</i>	-2.24	
			<i>For &gt;50 To 100, Deduct</i>	-5.30	
			<i>For &gt;100, Deduct</i>	-10.59	
03 15 19 00-0085	EA		1-3/4" Diameter x 18" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	47.83	
			<i>For Galvanized, Add</i>	13.83	
			<i>For Stainless Steel, Add</i>	96.78	
			<i>For &gt;10 To 50, Deduct</i>	-1.01	
			<i>For &gt;50 To 100, Deduct</i>	-2.71	
			<i>For &gt;100, Deduct</i>	-5.42	
03 15 19 00-0086	EA		1-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	50.67	
			<i>For Galvanized, Add</i>	14.13	
			<i>For Stainless Steel, Add</i>	98.88	
			<i>For &gt;10 To 50, Deduct</i>	-1.12	
			<i>For &gt;50 To 100, Deduct</i>	-2.95	
			<i>For &gt;100, Deduct</i>	-5.90	
03 15 19 00-0087	EA		1-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	52.44	
			<i>For Galvanized, Add</i>	14.35	
			<i>For Stainless Steel, Add</i>	100.45	
			<i>For &gt;10 To 50, Deduct</i>	-1.19	
			<i>For &gt;50 To 100, Deduct</i>	-3.09	
			<i>For &gt;100, Deduct</i>	-6.18	
03 15 19 00-0088	EA		1-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	58.37	
			<i>For Galvanized, Add</i>	16.58	
			<i>For Stainless Steel, Add</i>	116.03	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-3.35	
			<i>For &gt;100, Deduct</i>	-6.70	
03 15 19 00-0089	EA		1-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	67.10	
			<i>For Galvanized, Add</i>	19.14	
			<i>For Stainless Steel, Add</i>	133.95	
			<i>For &gt;10 To 50, Deduct</i>	-1.44	
			<i>For &gt;50 To 100, Deduct</i>	-3.84	
			<i>For &gt;100, Deduct</i>	-7.68	
03 15 19 00-0090	EA		1-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	72.41	
			<i>For Galvanized, Add</i>	19.39	
			<i>For Stainless Steel, Add</i>	135.70	
			<i>For &gt;10 To 50, Deduct</i>	-1.68	
			<i>For &gt;50 To 100, Deduct</i>	-4.33	
			<i>For &gt;100, Deduct</i>	-8.67	
03 15 19 00-0091	EA		1-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	82.23	
			<i>For Galvanized, Add</i>	20.94	
			<i>For Stainless Steel, Add</i>	146.55	
			<i>For &gt;10 To 50, Deduct</i>	-2.02	
			<i>For &gt;50 To 100, Deduct</i>	-5.08	
			<i>For &gt;100, Deduct</i>	-10.17	



<b>Concrete</b>	<b>03</b>	<b>CS</b>	
<b>Concrete Forming And Accessories</b>			<b>03 10</b>
<b>Concrete Accessories</b>			<b>03 15</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0092 EA 1-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	95.53	
For Galvanized, Add	22.55	
For Stainless Steel, Add	157.82	
For >10 To 50, Deduct	-2.52	
For >50 To 100, Deduct	-6.17	
For >100, Deduct	-12.34	
03 15 19 00-0093 EA 2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	65.83	
For Galvanized, Add	21.05	
For Stainless Steel, Add	147.32	
For >10 To 50, Deduct	-1.19	
For >50 To 100, Deduct	-3.43	
For >100, Deduct	-6.85	
03 15 19 00-0094 EA 2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	72.40	
For Galvanized, Add	22.75	
For Stainless Steel, Add	159.25	
For >10 To 50, Deduct	-1.35	
For >50 To 100, Deduct	-3.83	
For >100, Deduct	-7.66	
03 15 19 00-0095 EA 2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	80.63	
For Galvanized, Add	24.80	
For Stainless Steel, Add	173.57	
For >10 To 50, Deduct	-1.55	
For >50 To 100, Deduct	-4.34	
For >100, Deduct	-8.69	
03 15 19 00-0096 EA 2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	89.21	
For Galvanized, Add	26.26	
For Stainless Steel, Add	183.82	
For >10 To 50, Deduct	-1.83	
For >50 To 100, Deduct	-4.98	
For >100, Deduct	-9.96	
03 15 19 00-0097 EA 2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	96.80	
For Galvanized, Add	28.22	
For Stainless Steel, Add	197.54	
For >10 To 50, Deduct	-2.02	
For >50 To 100, Deduct	-5.45	
For >100, Deduct	-10.89	
03 15 19 00-0098 EA 2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	105.11	
For Galvanized, Add	30.13	
For Stainless Steel, Add	210.91	
For >10 To 50, Deduct	-2.24	
For >50 To 100, Deduct	-5.99	
For >100, Deduct	-11.98	
03 15 19 00-0099 EA 2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	122.37	
For Galvanized, Add	32.36	
For Stainless Steel, Add	226.52	
For >10 To 50, Deduct	-2.88	
For >50 To 100, Deduct	-7.38	
For >100, Deduct	-14.77	
03 15 19 00-0100 EA 2" Diameter x 66" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	128.80	
For Galvanized, Add	35.58	
For Stainless Steel, Add	249.03	
For >10 To 50, Deduct	-2.88	
For >50 To 100, Deduct	-7.54	
For >100, Deduct	-15.09	
03 15 19 00-0101 EA 2" Diameter x 72" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	146.35	
For Galvanized, Add	39.55	
For Stainless Steel, Add	276.82	
For >10 To 50, Deduct	-3.36	
For >50 To 100, Deduct	-8.70	
For >100, Deduct	-17.41	
<b>03 15 19 00-0102 2-1/2" And 2-3/4" Diameter (03 15 19 00-0036)</b>		
03 15 19 00-0103 EA 2-1/2" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	117.24	
For Galvanized, Add	46.75	
For Stainless Steel, Add	327.25	
For >10 To 50, Deduct	-1.19	
For >50 To 100, Deduct	-4.71	
For >100, Deduct	-9.42	
03 15 19 00-0104 EA 2-1/2" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	124.63	
For Galvanized, Add	48.87	
For Stainless Steel, Add	342.06	
For >10 To 50, Deduct	-1.35	
For >50 To 100, Deduct	-5.13	
For >100, Deduct	-10.27	
03 15 19 00-0105 EA 2-1/2" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt.....	137.03	
For Galvanized, Add	53.00	
For Stainless Steel, Add	370.97	
For >10 To 50, Deduct	-1.55	
For >50 To 100, Deduct	-5.75	
For >100, Deduct	-11.51	

**03 Concrete****03 10 Concrete Forming And Accessories****03 15 Concrete Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 15 19 00-0106	EA		2-1/2" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	148.39	
			<i>For Galvanized, Add</i>	55.85	
			<i>For Stainless Steel, Add</i>	390.95	
			<i>For &gt;10 To 50, Deduct</i>	-1.83	
			<i>For &gt;50 To 100, Deduct</i>	-6.46	
			<i>For &gt;100, Deduct</i>	-12.92	
03 15 19 00-0107	EA		2-1/2" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	158.05	
			<i>For Galvanized, Add</i>	58.85	
			<i>For Stainless Steel, Add</i>	411.92	
			<i>For &gt;10 To 50, Deduct</i>	-2.02	
			<i>For &gt;50 To 100, Deduct</i>	-6.98	
			<i>For &gt;100, Deduct</i>	-13.96	
03 15 19 00-0108	EA		2-1/2" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	169.24	
			<i>For Galvanized, Add</i>	62.20	
			<i>For Stainless Steel, Add</i>	435.37	
			<i>For &gt;10 To 50, Deduct</i>	-2.24	
			<i>For &gt;50 To 100, Deduct</i>	-7.59	
			<i>For &gt;100, Deduct</i>	-15.19	
03 15 19 00-0109	EA		2-1/2" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	188.91	
			<i>For Galvanized, Add</i>	65.63	
			<i>For Stainless Steel, Add</i>	459.41	
			<i>For &gt;10 To 50, Deduct</i>	-2.88	
			<i>For &gt;50 To 100, Deduct</i>	-9.05	
			<i>For &gt;100, Deduct</i>	-18.09	
03 15 19 00-0110	EA		2-3/4" Diameter x 24" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	131.07	
			<i>For Galvanized, Add</i>	52.93	
			<i>For Stainless Steel, Add</i>	370.48	
			<i>For &gt;10 To 50, Deduct</i>	-1.26	
			<i>For &gt;50 To 100, Deduct</i>	-5.17	
			<i>For &gt;100, Deduct</i>	-10.34	
03 15 19 00-0111	EA		2-3/4" Diameter x 30" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	142.06	
			<i>For Galvanized, Add</i>	56.62	
			<i>For Stainless Steel, Add</i>	396.31	
			<i>For &gt;10 To 50, Deduct</i>	-1.44	
			<i>For &gt;50 To 100, Deduct</i>	-5.71	
			<i>For &gt;100, Deduct</i>	-11.43	
03 15 19 00-0112	EA		2-3/4" Diameter x 36" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	154.31	
			<i>For Galvanized, Add</i>	60.34	
			<i>For Stainless Steel, Add</i>	422.35	
			<i>For &gt;10 To 50, Deduct</i>	-1.68	
			<i>For &gt;50 To 100, Deduct</i>	-6.38	
			<i>For &gt;100, Deduct</i>	-12.76	
03 15 19 00-0113	EA		2-3/4" Diameter x 42" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	167.74	
			<i>For Galvanized, Add</i>	63.69	
			<i>For Stainless Steel, Add</i>	445.83	
			<i>For &gt;10 To 50, Deduct</i>	-2.02	
			<i>For &gt;50 To 100, Deduct</i>	-7.22	
			<i>For &gt;100, Deduct</i>	-14.44	
03 15 19 00-0114	EA		2-3/4" Diameter x 48" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	179.56	
			<i>For Galvanized, Add</i>	67.36	
			<i>For Stainless Steel, Add</i>	471.49	
			<i>For &gt;10 To 50, Deduct</i>	-2.24	
			<i>For &gt;50 To 100, Deduct</i>	-7.85	
			<i>For &gt;100, Deduct</i>	-15.71	
03 15 19 00-0115	EA		2-3/4" Diameter x 54" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	195.55	
			<i>For Galvanized, Add</i>	72.56	
			<i>For Stainless Steel, Add</i>	507.89	
			<i>For &gt;10 To 50, Deduct</i>	-2.52	
			<i>For &gt;50 To 100, Deduct</i>	-8.67	
			<i>For &gt;100, Deduct</i>	-17.34	
03 15 19 00-0116	EA		2-3/4" Diameter x 60" Length, Plain Steel, L-Type Cast In Place Anchor Bolt .....	220.35	
			<i>For Galvanized, Add</i>	76.55	
			<i>For Stainless Steel, Add</i>	535.82	
			<i>For &gt;10 To 50, Deduct</i>	-3.36	
			<i>For &gt;50 To 100, Deduct</i>	-10.55	
			<i>For &gt;100, Deduct</i>	-21.11	

**03 20 Concrete Reinforcing** <sup>(03)</sup>

Note: Includes cutting or torching to size, bending where necessary and tie wires.

**03 21 Reinforcement Bars** <sup>(03 20)</sup>

Note: Includes cutting, bending, tie wire, tying, bar chairs and all non-mechanical splicing. The weights of reinforcing steel shall be used as follows: #2 - 0.167 Lbs./LF, #3 - 0.376 Lbs./LF, #4 - 0.668 Lbs./LF, #5 - 1.043 Lbs./LF, #6 - 1.502 Lbs./LF, #7 - 2.044 Lbs./LF, #8 - 2.670 Lbs./LF, #9 - 3.400 Lbs./LF, #10 - 4.303 Lbs./LF, #11 - 5.313 Lbs./LF, #14 - 7.650 Lbs./LF, #18 - 13.600 Lbs./LF.

**03 21 11 Plain Steel Reinforcement Bars** <sup>(03 21)</sup>**03 21 11 00-0001 Beams And Girders, Steel Reinforcement Bar** <sup>(03 21 11)</sup>

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0002	LF	#3, Grade 40, Beams And Girders, Steel Reinforcement Bar .....	0.50
03 21 11 00-0003	LF	#4, Grade 40, Beams And Girders, Steel Reinforcement Bar .....	0.84
03 21 11 00-0004	LF	#5, Grade 40, Beams And Girders, Steel Reinforcement Bar .....	1.25
03 21 11 00-0005	LF	#6, Grade 40, Beams And Girders, Steel Reinforcement Bar .....	1.71
03 21 11 00-0006	LF	#3, Grade 50, Beams And Girders, Steel Reinforcement Bar .....	0.51
03 21 11 00-0007	LF	#4, Grade 50, Beams And Girders, Steel Reinforcement Bar .....	0.86



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 21 11 00-0008	LF	#5, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.28	
03 21 11 00-0009	LF	#6, Grade 50, Beams And Girders, Steel Reinforcement Bar.....	1.75	
03 21 11 00-0010	LF	#3, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.52	
03 21 11 00-0011	LF	#4, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	0.88	
03 21 11 00-0012	LF	#5, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.32	
03 21 11 00-0013	LF	#6, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	1.81	
03 21 11 00-0014	LF	#7, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.34	
03 21 11 00-0015	LF	#8, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	2.89	
03 21 11 00-0016	LF	#9, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	3.54	
03 21 11 00-0017	LF	#10, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	4.30	
03 21 11 00-0018	LF	#11, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	5.08	
03 21 11 00-0019	LF	#14, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	6.99	
03 21 11 00-0020	LF	#18, Grade 60, Beams And Girders, Steel Reinforcement Bar.....	11.87	
03 21 11 00-0021	LF	#6, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	1.86	
03 21 11 00-0022	LF	#7, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.41	
03 21 11 00-0023	LF	#8, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	2.99	
03 21 11 00-0024	LF	#9, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	3.66	
03 21 11 00-0025	LF	#10, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	4.45	
03 21 11 00-0026	LF	#11, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	5.28	
03 21 11 00-0027	LF	#14, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	7.27	
03 21 11 00-0028	LF	#18, Grade 75, Beams And Girders, Steel Reinforcement Bar.....	12.36	
03 21 11 00-0029	LF	#3, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	0.53	
03 21 11 00-0030	LF	#4, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	0.90	
03 21 11 00-0031	LF	#5, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.34	
03 21 11 00-0032	LF	#6, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	1.85	
03 21 11 00-0033	LF	#7, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	2.39	
03 21 11 00-0034	LF	#8, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	2.96	
03 21 11 00-0035	LF	#9, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	3.63	
03 21 11 00-0036	LF	#10, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	4.41	
03 21 11 00-0037	LF	#11, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	5.23	
03 21 11 00-0038	LF	#14, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	7.20	
03 21 11 00-0039	LF	#18, Grade 60, Beams And Girders, Low Alloy Steel Reinforcement Bar.....	12.24	

**03 21 11 00-0040 Columns, Steel Reinforcement Bar (03 21 11)**

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0041	LF	#3, Grade 40, Columns, Steel Reinforcement Bar.....	0.53	
03 21 11 00-0042	LF	#4, Grade 40, Columns, Steel Reinforcement Bar.....	0.90	
03 21 11 00-0043	LF	#5, Grade 40, Columns, Steel Reinforcement Bar.....	1.32	
03 21 11 00-0044	LF	#6, Grade 40, Columns, Steel Reinforcement Bar.....	1.81	
03 21 11 00-0045	LF	#3, Grade 50, Columns, Steel Reinforcement Bar.....	0.54	
03 21 11 00-0046	LF	#4, Grade 50, Columns, Steel Reinforcement Bar.....	0.92	
03 21 11 00-0047	LF	#5, Grade 50, Columns, Steel Reinforcement Bar.....	1.35	
03 21 11 00-0048	LF	#6, Grade 50, Columns, Steel Reinforcement Bar.....	1.85	
03 21 11 00-0049	LF	#3, Grade 60, Columns, Steel Reinforcement Bar.....	0.55	
03 21 11 00-0050	LF	#4, Grade 60, Columns, Steel Reinforcement Bar.....	0.94	
03 21 11 00-0051	LF	#5, Grade 60, Columns, Steel Reinforcement Bar.....	1.39	
03 21 11 00-0052	LF	#6, Grade 60, Columns, Steel Reinforcement Bar.....	1.91	
03 21 11 00-0053	LF	#7, Grade 60, Columns, Steel Reinforcement Bar.....	2.46	
03 21 11 00-0054	LF	#8, Grade 60, Columns, Steel Reinforcement Bar.....	3.03	
03 21 11 00-0055	LF	#9, Grade 60, Columns, Steel Reinforcement Bar.....	3.70	
03 21 11 00-0056	LF	#10, Grade 60, Columns, Steel Reinforcement Bar.....	4.49	
03 21 11 00-0057	LF	#11, Grade 60, Columns, Steel Reinforcement Bar.....	5.29	
03 21 11 00-0058	LF	#14, Grade 60, Columns, Steel Reinforcement Bar.....	7.28	
03 21 11 00-0059	LF	#18, Grade 60, Columns, Steel Reinforcement Bar.....	12.32	
03 21 11 00-0060	LF	#6, Grade 75, Columns, Steel Reinforcement Bar.....	1.96	
03 21 11 00-0061	LF	#7, Grade 75, Columns, Steel Reinforcement Bar.....	2.53	
03 21 11 00-0062	LF	#8, Grade 75, Columns, Steel Reinforcement Bar.....	3.13	
03 21 11 00-0063	LF	#9, Grade 75, Columns, Steel Reinforcement Bar.....	3.82	
03 21 11 00-0064	LF	#10, Grade 75, Columns, Steel Reinforcement Bar.....	4.64	
03 21 11 00-0065	LF	#11, Grade 75, Columns, Steel Reinforcement Bar.....	5.49	
03 21 11 00-0066	LF	#14, Grade 75, Columns, Steel Reinforcement Bar.....	7.56	
03 21 11 00-0067	LF	#18, Grade 75, Columns, Steel Reinforcement Bar.....	12.81	
03 21 11 00-0068	LF	#3, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	0.56	
03 21 11 00-0069	LF	#4, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	0.96	
03 21 11 00-0070	LF	#5, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.41	
03 21 11 00-0071	LF	#6, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	1.95	
03 21 11 00-0072	LF	#7, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	2.51	
03 21 11 00-0073	LF	#8, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	3.10	
03 21 11 00-0074	LF	#9, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	3.79	
03 21 11 00-0075	LF	#10, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	4.60	
03 21 11 00-0076	LF	#11, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	5.44	
03 21 11 00-0077	LF	#14, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	7.49	
03 21 11 00-0078	LF	#18, Grade 60, Columns, Low Alloy Steel Reinforcement Bar.....	12.69	

**03 21 11 00-0079 Footings, Steel Reinforcement Bar (03 21 11)**

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0080	LF	#3, Grade 40, Footings, Steel Reinforcement Bar.....	0.45	
03 21 11 00-0081	LF	#4, Grade 40, Footings, Steel Reinforcement Bar.....	0.76	
03 21 11 00-0082	LF	#5, Grade 40, Footings, Steel Reinforcement Bar.....	1.14	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 21 11 00-0083	LF	#6, Grade 40, Footings, Steel Reinforcement Bar	1.56	
03 21 11 00-0084	LF	#3, Grade 50, Footings, Steel Reinforcement Bar	0.46	
03 21 11 00-0085	LF	#4, Grade 50, Footings, Steel Reinforcement Bar	0.78	
03 21 11 00-0086	LF	#5, Grade 50, Footings, Steel Reinforcement Bar	1.17	
03 21 11 00-0087	LF	#6, Grade 50, Footings, Steel Reinforcement Bar	1.60	
03 21 11 00-0088	LF	#3, Grade 60, Footings, Steel Reinforcement Bar	0.47	
03 21 11 00-0089	LF	#4, Grade 60, Footings, Steel Reinforcement Bar	0.80	
03 21 11 00-0090	LF	#5, Grade 60, Footings, Steel Reinforcement Bar	1.21	
03 21 11 00-0091	LF	#6, Grade 60, Footings, Steel Reinforcement Bar	1.66	
03 21 11 00-0092	LF	#7, Grade 60, Footings, Steel Reinforcement Bar	2.15	
03 21 11 00-0093	LF	#8, Grade 60, Footings, Steel Reinforcement Bar	2.68	
03 21 11 00-0094	LF	#9, Grade 60, Footings, Steel Reinforcement Bar	3.28	
03 21 11 00-0095	LF	#10, Grade 60, Footings, Steel Reinforcement Bar	4.00	
03 21 11 00-0096	LF	#11, Grade 60, Footings, Steel Reinforcement Bar	4.75	
03 21 11 00-0097	LF	#14, Grade 60, Footings, Steel Reinforcement Bar	6.57	
03 21 11 00-0098	LF	#18, Grade 60, Footings, Steel Reinforcement Bar	11.20	
03 21 11 00-0099	LF	#6, Grade 75, Footings, Steel Reinforcement Bar	1.71	
03 21 11 00-0100	LF	#7, Grade 75, Footings, Steel Reinforcement Bar	2.22	
03 21 11 00-0101	LF	#8, Grade 75, Footings, Steel Reinforcement Bar	2.78	
03 21 11 00-0102	LF	#9, Grade 75, Footings, Steel Reinforcement Bar	3.40	
03 21 11 00-0103	LF	#10, Grade 75, Footings, Steel Reinforcement Bar	4.15	
03 21 11 00-0104	LF	#11, Grade 75, Footings, Steel Reinforcement Bar	4.95	
03 21 11 00-0105	LF	#14, Grade 75, Footings, Steel Reinforcement Bar	6.85	
03 21 11 00-0106	LF	#18, Grade 75, Footings, Steel Reinforcement Bar	11.69	
03 21 11 00-0107	LF	#3, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.48	
03 21 11 00-0108	LF	#4, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	0.82	
03 21 11 00-0109	LF	#5, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.23	
03 21 11 00-0110	LF	#6, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	1.70	
03 21 11 00-0111	LF	#7, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.20	
03 21 11 00-0112	LF	#8, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	2.75	
03 21 11 00-0113	LF	#9, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	3.37	
03 21 11 00-0114	LF	#10, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.11	
03 21 11 00-0115	LF	#11, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	4.90	
03 21 11 00-0116	LF	#14, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	6.78	
03 21 11 00-0117	LF	#18, Grade 60, Footings, Low Alloy Steel Reinforcement Bar	11.57	

### 03 21 11 00-0118 Slab On Grade, Steel Reinforcement Bar (03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0119	LF	#3, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.43	
03 21 11 00-0120	LF	#4, Grade 40, Slab On Grade, Steel Reinforcement Bar	0.74	
03 21 11 00-0121	LF	#5, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.10	
03 21 11 00-0122	LF	#6, Grade 40, Slab On Grade, Steel Reinforcement Bar	1.51	
03 21 11 00-0123	LF	#3, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.44	
03 21 11 00-0124	LF	#4, Grade 50, Slab On Grade, Steel Reinforcement Bar	0.76	
03 21 11 00-0125	LF	#5, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.13	
03 21 11 00-0126	LF	#6, Grade 50, Slab On Grade, Steel Reinforcement Bar	1.55	
03 21 11 00-0127	LF	#3, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.45	
03 21 11 00-0128	LF	#4, Grade 60, Slab On Grade, Steel Reinforcement Bar	0.78	
03 21 11 00-0129	LF	#5, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.17	
03 21 11 00-0130	LF	#6, Grade 60, Slab On Grade, Steel Reinforcement Bar	1.61	
03 21 11 00-0131	LF	#7, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.09	
03 21 11 00-0132	LF	#8, Grade 60, Slab On Grade, Steel Reinforcement Bar	2.59	
03 21 11 00-0133	LF	#9, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.20	
03 21 11 00-0134	LF	#10, Grade 60, Slab On Grade, Steel Reinforcement Bar	3.90	
03 21 11 00-0135	LF	#11, Grade 60, Slab On Grade, Steel Reinforcement Bar	4.64	
03 21 11 00-0136	LF	#14, Grade 60, Slab On Grade, Steel Reinforcement Bar	6.42	
03 21 11 00-0137	LF	#18, Grade 60, Slab On Grade, Steel Reinforcement Bar	10.97	
03 21 11 00-0138	LF	#6, Grade 75, Slab On Grade, Steel Reinforcement Bar	1.66	
03 21 11 00-0139	LF	#7, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.16	
03 21 11 00-0140	LF	#8, Grade 75, Slab On Grade, Steel Reinforcement Bar	2.69	
03 21 11 00-0141	LF	#9, Grade 75, Slab On Grade, Steel Reinforcement Bar	3.32	
03 21 11 00-0142	LF	#10, Grade 75, Slab On Grade, Steel Reinforcement Bar	4.05	
03 21 11 00-0143	LF	#11, Grade 75, Slab On Grade, Steel Reinforcement Bar	4.84	
03 21 11 00-0144	LF	#14, Grade 75, Slab On Grade, Steel Reinforcement Bar	6.70	
03 21 11 00-0145	LF	#18, Grade 75, Slab On Grade, Steel Reinforcement Bar	11.46	
03 21 11 00-0146	LF	#3, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.46	
03 21 11 00-0147	LF	#4, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	0.80	
03 21 11 00-0148	LF	#5, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.19	
03 21 11 00-0149	LF	#6, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	1.65	
03 21 11 00-0150	LF	#7, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.14	
03 21 11 00-0151	LF	#8, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	2.66	
03 21 11 00-0152	LF	#9, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	3.29	
03 21 11 00-0153	LF	#10, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	4.01	
03 21 11 00-0154	LF	#11, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	4.79	
03 21 11 00-0155	LF	#14, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	6.63	
03 21 11 00-0156	LF	#18, Grade 60, Slab On Grade, Low Alloy Steel Reinforcement Bar	11.34	

### 03 21 11 00-0157 Elevated Slabs, Steel Reinforcement Bar (03 21 11)

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 11 00-0158	LF		#3, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.40	
03 21 11 00-0159	LF		#4, Grade 40, Elevated Slabs, Steel Reinforcement Bar	0.68	
03 21 11 00-0160	LF		#5, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.03	
03 21 11 00-0161	LF		#6, Grade 40, Elevated Slabs, Steel Reinforcement Bar	1.41	
03 21 11 00-0162	LF		#3, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.41	
03 21 11 00-0163	LF		#4, Grade 50, Elevated Slabs, Steel Reinforcement Bar	0.70	
03 21 11 00-0164	LF		#5, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.06	
03 21 11 00-0165	LF		#6, Grade 50, Elevated Slabs, Steel Reinforcement Bar	1.45	
03 21 11 00-0166	LF		#3, Grade 60, Elevated Slabs, Steel Reinforcement Bar	0.42	
03 21 11 00-0167	LF		#4, Grade 60, Elevated Slabs, Steel Reinforcement Bar	0.72	
03 21 11 00-0168	LF		#5, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.10	
03 21 11 00-0169	LF		#6, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.51	
03 21 11 00-0170	LF		#7, Grade 60, Elevated Slabs, Steel Reinforcement Bar	1.97	
03 21 11 00-0171	LF		#8, Grade 60, Elevated Slabs, Steel Reinforcement Bar	2.44	
03 21 11 00-0172	LF		#9, Grade 60, Elevated Slabs, Steel Reinforcement Bar	3.03	
03 21 11 00-0173	LF		#10, Grade 60, Elevated Slabs, Steel Reinforcement Bar	3.71	
03 21 11 00-0174	LF		#11, Grade 60, Elevated Slabs, Steel Reinforcement Bar	4.42	
03 21 11 00-0175	LF		#14, Grade 60, Elevated Slabs, Steel Reinforcement Bar	6.14	
03 21 11 00-0176	LF		#18, Grade 60, Elevated Slabs, Steel Reinforcement Bar	10.52	
03 21 11 00-0177	LF		#6, Grade 75, Elevated Slabs, Steel Reinforcement Bar	1.56	
03 21 11 00-0178	LF		#7, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.04	
03 21 11 00-0179	LF		#8, Grade 75, Elevated Slabs, Steel Reinforcement Bar	2.54	
03 21 11 00-0180	LF		#9, Grade 75, Elevated Slabs, Steel Reinforcement Bar	3.15	
03 21 11 00-0181	LF		#10, Grade 75, Elevated Slabs, Steel Reinforcement Bar	3.86	
03 21 11 00-0182	LF		#11, Grade 75, Elevated Slabs, Steel Reinforcement Bar	4.62	
03 21 11 00-0183	LF		#14, Grade 75, Elevated Slabs, Steel Reinforcement Bar	6.42	
03 21 11 00-0184	LF		#18, Grade 75, Elevated Slabs, Steel Reinforcement Bar	11.01	
03 21 11 00-0185	LF		#3, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.43	
03 21 11 00-0186	LF		#4, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	0.74	
03 21 11 00-0187	LF		#5, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.12	
03 21 11 00-0188	LF		#6, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	1.55	
03 21 11 00-0189	LF		#7, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.02	
03 21 11 00-0190	LF		#8, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	2.51	
03 21 11 00-0191	LF		#9, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	3.12	
03 21 11 00-0192	LF		#10, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	3.82	
03 21 11 00-0193	LF		#11, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	4.57	
03 21 11 00-0194	LF		#14, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	6.35	
03 21 11 00-0195	LF		#18, Grade 60, Elevated Slabs, Low Alloy Steel Reinforcement Bar	10.89	

**03 21 11 00-0196**

**Walls, Steel Reinforcement Bar (03 21 11)**

Note: ASTM A-615 Plain Steel and A-706 Low Alloy Steel.

03 21 11 00-0197	LF		#3, Grade 40, Walls, Steel Reinforcement Bar	0.39	
03 21 11 00-0198	LF		#4, Grade 40, Walls, Steel Reinforcement Bar	0.66	
03 21 11 00-0199	LF		#5, Grade 40, Walls, Steel Reinforcement Bar	0.99	
03 21 11 00-0200	LF		#6, Grade 40, Walls, Steel Reinforcement Bar	1.36	
03 21 11 00-0201	LF		#3, Grade 50, Walls, Steel Reinforcement Bar	0.40	
03 21 11 00-0202	LF		#4, Grade 50, Walls, Steel Reinforcement Bar	0.68	
03 21 11 00-0203	LF		#5, Grade 50, Walls, Steel Reinforcement Bar	1.02	
03 21 11 00-0204	LF		#6, Grade 50, Walls, Steel Reinforcement Bar	1.40	
03 21 11 00-0205	LF		#3, Grade 60, Walls, Steel Reinforcement Bar	0.41	
03 21 11 00-0206	LF		#4, Grade 60, Walls, Steel Reinforcement Bar	0.70	
03 21 11 00-0207	LF		#5, Grade 60, Walls, Steel Reinforcement Bar	1.06	
03 21 11 00-0208	LF		#6, Grade 60, Walls, Steel Reinforcement Bar	1.46	
03 21 11 00-0209	LF		#7, Grade 60, Walls, Steel Reinforcement Bar	1.90	
03 21 11 00-0210	LF		#8, Grade 60, Walls, Steel Reinforcement Bar	2.38	
03 21 11 00-0211	LF		#9, Grade 60, Walls, Steel Reinforcement Bar	2.94	
03 21 11 00-0212	LF		#10, Grade 60, Walls, Steel Reinforcement Bar	3.62	
03 21 11 00-0213	LF		#11, Grade 60, Walls, Steel Reinforcement Bar	4.31	
03 21 11 00-0214	LF		#14, Grade 60, Walls, Steel Reinforcement Bar	6.00	
03 21 11 00-0215	LF		#18, Grade 60, Walls, Steel Reinforcement Bar	10.30	
03 21 11 00-0216	LF		#6, Grade 75, Walls, Steel Reinforcement Bar	1.51	
03 21 11 00-0217	LF		#7, Grade 75, Walls, Steel Reinforcement Bar	1.97	
03 21 11 00-0218	LF		#8, Grade 75, Walls, Steel Reinforcement Bar	2.48	
03 21 11 00-0219	LF		#9, Grade 75, Walls, Steel Reinforcement Bar	3.06	
03 21 11 00-0220	LF		#10, Grade 75, Walls, Steel Reinforcement Bar	3.77	
03 21 11 00-0221	LF		#11, Grade 75, Walls, Steel Reinforcement Bar	4.51	
03 21 11 00-0222	LF		#14, Grade 75, Walls, Steel Reinforcement Bar	6.28	
03 21 11 00-0223	LF		#18, Grade 75, Walls, Steel Reinforcement Bar	10.79	
03 21 11 00-0224	LF		#3, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.42	
03 21 11 00-0225	LF		#4, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	0.72	
03 21 11 00-0226	LF		#5, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.08	
03 21 11 00-0227	LF		#6, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.50	
03 21 11 00-0228	LF		#7, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	1.95	
03 21 11 00-0229	LF		#8, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	2.45	
03 21 11 00-0230	LF		#9, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	3.03	
03 21 11 00-0231	LF		#10, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	3.73	
03 21 11 00-0232	LF		#11, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	4.46	
03 21 11 00-0233	LF		#14, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	6.21	
03 21 11 00-0234	LF		#18, Grade 60, Walls, Low Alloy Steel Reinforcement Bar	10.67	

<b>03</b>	<b>Concrete</b>
<b>03 20</b>	<b>Concrete Reinforcing</b>
<b>03 21</b>	<b>Reinforcement Bars</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>03 21 11 00-0235</b> <b>Mechanical Joint Connection</b> <small>(03 21 11)</small>		
<b>03 21 11 00-0236</b> <b>Thermal Type Mechanical Joint Connection</b> <small>(03 21 11 00-0235)</small>		
03 21 11 00-0237      EA      Thermal Type Mechanical Joint Connection, Add Per Splice .....	160.20	
<b>03 21 11 00-0238</b> <b>Screwed Type Mechanical Joint Connection</b> <small>(03 21 11 00-0235)</small>		
03 21 11 00-0239      EA      Screwed Type Mechanical Joint Connection, Add Per Splice.....	88.29	
<b>03 21 11 00-0240</b> <b>Deformed Straight Dowels</b> <small>(03 21 11)</small>		
Note: Excludes drilling. See CSI section 02 41 19 13-0221 for drilling in concrete.		
03 21 11 00-0241      EA      3/8" Diameter x 24" Long, Deformed Straight Dowel .....	2.34	
For Up To 12" Length, Deduct	-0.22	
For >12" To <24" Length, Deduct	-0.11	
03 21 11 00-0242      EA      1/2" Diameter x 24" Long, Deformed Straight Dowel .....	2.77	
For Up To 12" Length, Deduct	-0.30	
For >12" To <24" Length, Deduct	-0.15	
03 21 11 00-0243      EA      5/8" Diameter x 24" Long, Deformed Straight Dowel .....	3.29	
For Up To 12" Length, Deduct	-0.46	
For >12" To <24" Length, Deduct	-0.23	
03 21 11 00-0244      EA      3/4" Diameter x 24" Long, Deformed Straight Dowel .....	3.92	
For Up To 12" Length, Deduct	-0.67	
For >12" To <24" Length, Deduct	-0.33	
03 21 11 00-0245      EA      7/8" Diameter x 24" Long, Deformed Straight Dowel .....	4.52	
For Up To 12" Length, Deduct	-0.93	
For >12" To <24" Length, Deduct	-0.47	
03 21 11 00-0246      EA      1" Diameter x 24" Long, Deformed Straight Dowel .....	5.68	
For Up To 12" Length, Deduct	-1.19	
For >12" To <24" Length, Deduct	-0.60	
03 21 11 00-0247      EA      1-1/8" Diameter x 24" Long, Deformed Straight Dowel .....	6.66	
For Up To 12" Length, Deduct	-1.47	
For >12" To <24" Length, Deduct	-0.74	
03 21 11 00-0248      EA      1-1/4" Diameter x 24" Long, Deformed Straight Dowel .....	8.06	
For Up To 12" Length, Deduct	-1.92	
For >12" To <24" Length, Deduct	-0.96	
03 21 11 00-0249      EA      1-3/8" Diameter x 24" Long, Deformed Straight Dowel .....	9.49	
For Up To 12" Length, Deduct	-2.38	
For >12" To <24" Length, Deduct	-1.19	
<b>03 21 11 00-0250</b> <b>Spirals, Reinforcing Steel</b> <small>(03 21 11)</small>		
03 21 11 00-0251      TON      Up To 15" Diameter, Grade 60, Spirals, Reinforcing Steel .....	3,679.85	
For Grade 75, Add	174.47	
03 21 11 00-0252      TON      >15" To 24" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,647.36	
For Grade 75, Add	174.47	
03 21 11 00-0253      TON      >24" To 36" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,647.36	
For Grade 75, Add	174.47	
03 21 11 00-0254      TON      >36" To 48" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,582.06	
For Grade 75, Add	174.47	
03 21 11 00-0255      TON      >48" To 64" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,527.27	
For Grade 75, Add	174.47	
03 21 11 00-0256      TON      >64" To 84" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,530.29	
For Grade 75, Add	178.77	
03 21 11 00-0257      TON      >84" To 96" Diameter, Grade 60, Spirals, Reinforcing Steel.....	3,484.42	
For Grade 75, Add	178.77	
<b>03 21 11 00-0258</b> <b>Dowel Or Hairpin, Drilled And Epoxy Into Concrete</b> <small>(03 21 11)</small>		
03 21 11 00-0259      EA      Dowels Or Hairpin, 1/2" x 30" Length, Drilled And Epoxy In Concrete, 6" Embedment .....	23.27	
03 21 11 00-0260      EA      Dowels Or Hairpin, 1/2" x 36" Length, Drilled And Epoxy In Concrete, >6" To 12" Embedment.....	24.22	
<b>03 21 11 00-0261</b> <b>Accessories For Reinforcing Steel</b> <small>(03 21 11)</small>		
<b>03 21 11 00-0262</b> <b>Reinforcing Steel Weld Splice</b> <small>(03 21 11 00-0261)</small>		
03 21 11 00-0263      EA      Up To #6 Reinforcing Steel Weld Splice .....	32.73	
03 21 11 00-0264      EA      >#6 Reinforcing Steel Weld Splice.....	47.35	
<b>03 21 11 00-0265</b> <b>Reinforcing Steel Sleeve And Wedge Splice Joint</b> <small>(03 21 11 00-0261)</small>		
03 21 11 00-0266      EA      Up To #4 Reinforcing Steel, Sleeve And Wedge Splice Joint .....	24.40	
03 21 11 00-0267      EA      #5 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	35.75	
03 21 11 00-0268      EA      #6 Reinforcing Steel, Sleeve And Wedge Splice Joint.....	51.70	
<b>03 21 13</b> <b>Galvanized Reinforcement Steel Bars</b> <small>(03 21)</small>		
<b>03 21 13 00-0001</b> <b>Beams And Girders, Galvanized Steel Reinforcement Bar</b> <small>(03 21 13)</small>		
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0002      LF      #3, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar .....	0.59	
03 21 13 00-0003      LF      #4, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar .....	1.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0004 LF #5, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar .....	1.51	
03 21 13 00-0005 LF #6, Grade 40, Beams And Girders, Galvanized Steel Reinforcement Bar .....	2.09	
03 21 13 00-0006 LF #3, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar .....	0.60	
03 21 13 00-0007 LF #4, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar .....	1.02	
03 21 13 00-0008 LF #5, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar .....	1.54	
03 21 13 00-0009 LF #6, Grade 50, Beams And Girders, Galvanized Steel Reinforcement Bar .....	2.12	
03 21 13 00-0010 LF #3, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	0.62	
03 21 13 00-0011 LF #4, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	1.05	
03 21 13 00-0012 LF #5, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	1.57	
03 21 13 00-0013 LF #6, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	2.18	
03 21 13 00-0014 LF #7, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	2.84	
03 21 13 00-0015 LF #8, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	3.55	
03 21 13 00-0016 LF #9, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	4.37	
03 21 13 00-0017 LF #10, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	5.36	
03 21 13 00-0018 LF #11, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	6.40	
03 21 13 00-0019 LF #14, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	8.88	
03 21 13 00-0020 LF #18, Grade 60, Beams And Girders, Galvanized Steel Reinforcement Bar .....	15.23	
03 21 13 00-0021 LF #6, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	2.23	
03 21 13 00-0022 LF #7, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	2.92	
03 21 13 00-0023 LF #8, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	3.64	
03 21 13 00-0024 LF #9, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	4.50	
03 21 13 00-0025 LF #10, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	5.51	
03 21 13 00-0026 LF #11, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	6.59	
03 21 13 00-0027 LF #14, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	9.16	
03 21 13 00-0028 LF #18, Grade 75, Beams And Girders, Galvanized Steel Reinforcement Bar .....	15.72	
<b>03 21 13 00-0029</b>	<b>Columns, Galvanized Steel Reinforcement Bar</b>	<i>(03 21 13)</i>
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0030 LF #3, Grade 40, Columns, Galvanized Steel Reinforcement Bar .....	0.62	
03 21 13 00-0031 LF #4, Grade 40, Columns, Galvanized Steel Reinforcement Bar .....	1.07	
03 21 13 00-0032 LF #5, Grade 40, Columns, Galvanized Steel Reinforcement Bar .....	1.58	
03 21 13 00-0033 LF #6, Grade 40, Columns, Galvanized Steel Reinforcement Bar .....	2.19	
03 21 13 00-0034 LF #3, Grade 50, Columns, Galvanized Steel Reinforcement Bar .....	0.63	
03 21 13 00-0035 LF #4, Grade 50, Columns, Galvanized Steel Reinforcement Bar .....	1.08	
03 21 13 00-0036 LF #5, Grade 50, Columns, Galvanized Steel Reinforcement Bar .....	1.61	
03 21 13 00-0037 LF #6, Grade 50, Columns, Galvanized Steel Reinforcement Bar .....	2.22	
03 21 13 00-0038 LF #3, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	0.65	
03 21 13 00-0039 LF #4, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	1.11	
03 21 13 00-0040 LF #5, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	1.64	
03 21 13 00-0041 LF #6, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	2.28	
03 21 13 00-0042 LF #7, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	2.96	
03 21 13 00-0043 LF #8, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	3.69	
03 21 13 00-0044 LF #9, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	4.53	
03 21 13 00-0045 LF #10, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	5.55	
03 21 13 00-0046 LF #11, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	6.61	
03 21 13 00-0047 LF #14, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	9.17	
03 21 13 00-0048 LF #18, Grade 60, Columns, Galvanized Steel Reinforcement Bar .....	15.68	
03 21 13 00-0049 LF #6, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	2.33	
03 21 13 00-0050 LF #7, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	3.04	
03 21 13 00-0051 LF #8, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	3.78	
03 21 13 00-0052 LF #9, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	4.66	
03 21 13 00-0053 LF #10, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	5.70	
03 21 13 00-0054 LF #11, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	6.80	
03 21 13 00-0055 LF #14, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	9.45	
03 21 13 00-0056 LF #18, Grade 75, Columns, Galvanized Steel Reinforcement Bar .....	16.17	
<b>03 21 13 00-0057</b>	<b>Footings, Galvanized Steel Reinforcement Bar</b>	<i>(03 21 13)</i>
Note: ASTM A-767 Hot Dipped Galvanized Steel.		
03 21 13 00-0058 LF #3, Grade 40, Footings, Galvanized Steel Reinforcement Bar .....	0.54	
03 21 13 00-0059 LF #4, Grade 40, Footings, Galvanized Steel Reinforcement Bar .....	0.93	
03 21 13 00-0060 LF #5, Grade 40, Footings, Galvanized Steel Reinforcement Bar .....	1.40	
03 21 13 00-0061 LF #6, Grade 40, Footings, Galvanized Steel Reinforcement Bar .....	1.94	
03 21 13 00-0062 LF #3, Grade 50, Footings, Galvanized Steel Reinforcement Bar .....	0.55	
03 21 13 00-0063 LF #4, Grade 50, Footings, Galvanized Steel Reinforcement Bar .....	0.94	
03 21 13 00-0064 LF #5, Grade 50, Footings, Galvanized Steel Reinforcement Bar .....	1.43	
03 21 13 00-0065 LF #6, Grade 50, Footings, Galvanized Steel Reinforcement Bar .....	1.97	
03 21 13 00-0066 LF #3, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	0.57	
03 21 13 00-0067 LF #4, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	0.97	
03 21 13 00-0068 LF #5, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	1.46	
03 21 13 00-0069 LF #6, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	2.03	
03 21 13 00-0070 LF #7, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	2.65	
03 21 13 00-0071 LF #8, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	3.34	
03 21 13 00-0072 LF #9, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	4.11	
03 21 13 00-0073 LF #10, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	5.06	
03 21 13 00-0074 LF #11, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	6.07	
03 21 13 00-0075 LF #14, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	8.46	
03 21 13 00-0076 LF #18, Grade 60, Footings, Galvanized Steel Reinforcement Bar .....	14.56	
03 21 13 00-0077 LF #6, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	2.08	
03 21 13 00-0078 LF #7, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	2.73	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 21 13 00-0079	LF	#8, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	3.43
03 21 13 00-0080	LF	#9, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	4.24
03 21 13 00-0081	LF	#10, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	5.21
03 21 13 00-0082	LF	#11, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	6.26
03 21 13 00-0083	LF	#14, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	8.74
03 21 13 00-0084	LF	#18, Grade 75, Footings, Galvanized Steel Reinforcement Bar .....	15.05

### 03 21 13 00-0085 Slab On Grade, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0086	LF	#3, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar .....	0.52
03 21 13 00-0087	LF	#4, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar .....	0.91
03 21 13 00-0088	LF	#5, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar .....	1.36
03 21 13 00-0089	LF	#6, Grade 40, Slab On Grade, Galvanized Steel Reinforcement Bar .....	1.89
03 21 13 00-0090	LF	#3, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar .....	0.53
03 21 13 00-0091	LF	#4, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar .....	0.92
03 21 13 00-0092	LF	#5, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar .....	1.39
03 21 13 00-0093	LF	#6, Grade 50, Slab On Grade, Galvanized Steel Reinforcement Bar .....	1.92
03 21 13 00-0094	LF	#3, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	0.55
03 21 13 00-0095	LF	#4, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	0.95
03 21 13 00-0096	LF	#5, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	1.42
03 21 13 00-0097	LF	#6, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	1.98
03 21 13 00-0098	LF	#7, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	2.59
03 21 13 00-0099	LF	#8, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	3.25
03 21 13 00-0100	LF	#9, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	4.03
03 21 13 00-0101	LF	#10, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	4.96
03 21 13 00-0102	LF	#11, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	5.96
03 21 13 00-0103	LF	#14, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	8.31
03 21 13 00-0104	LF	#18, Grade 60, Slab On Grade, Galvanized Steel Reinforcement Bar .....	14.33
03 21 13 00-0105	LF	#6, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	2.03
03 21 13 00-0106	LF	#7, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	2.67
03 21 13 00-0107	LF	#8, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	3.34
03 21 13 00-0108	LF	#9, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	4.16
03 21 13 00-0109	LF	#10, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	5.11
03 21 13 00-0110	LF	#11, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	6.15
03 21 13 00-0111	LF	#14, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	8.59
03 21 13 00-0112	LF	#18, Grade 75, Slab On Grade, Galvanized Steel Reinforcement Bar .....	14.82

### 03 21 13 00-0113 Elevated Slabs, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0114	LF	#3, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	0.49
03 21 13 00-0115	LF	#4, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	0.85
03 21 13 00-0116	LF	#5, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	1.29
03 21 13 00-0117	LF	#6, Grade 40, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	1.79
03 21 13 00-0118	LF	#3, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	0.50
03 21 13 00-0119	LF	#4, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	0.86
03 21 13 00-0120	LF	#5, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	1.32
03 21 13 00-0121	LF	#6, Grade 50, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	1.82
03 21 13 00-0122	LF	#3, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	0.52
03 21 13 00-0123	LF	#4, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	0.89
03 21 13 00-0124	LF	#5, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	1.35
03 21 13 00-0125	LF	#6, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	1.88
03 21 13 00-0126	LF	#7, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	2.47
03 21 13 00-0127	LF	#8, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	3.10
03 21 13 00-0128	LF	#9, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	3.86
03 21 13 00-0129	LF	#10, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	4.77
03 21 13 00-0130	LF	#11, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	5.74
03 21 13 00-0131	LF	#14, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	8.03
03 21 13 00-0132	LF	#18, Grade 60, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	13.88
03 21 13 00-0133	LF	#6, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	1.93
03 21 13 00-0134	LF	#7, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	2.55
03 21 13 00-0135	LF	#8, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	3.19
03 21 13 00-0136	LF	#9, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	3.99
03 21 13 00-0137	LF	#10, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	4.92
03 21 13 00-0138	LF	#11, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	5.93
03 21 13 00-0139	LF	#14, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	8.31
03 21 13 00-0140	LF	#18, Grade 75, Elevated Slabs, Galvanized Steel Reinforcement Bar .....	14.37

### 03 21 13 00-0141 Walls, Galvanized Steel Reinforcement Bar (03 21 13)

Note: ASTM A-767 Hot Dipped Galvanized Steel.

03 21 13 00-0142	LF	#3, Grade 40, Walls, Galvanized Steel Reinforcement Bar .....	0.48
03 21 13 00-0143	LF	#4, Grade 40, Walls, Galvanized Steel Reinforcement Bar .....	0.83
03 21 13 00-0144	LF	#5, Grade 40, Walls, Galvanized Steel Reinforcement Bar .....	1.25
03 21 13 00-0145	LF	#6, Grade 40, Walls, Galvanized Steel Reinforcement Bar .....	1.74
03 21 13 00-0146	LF	#3, Grade 50, Walls, Galvanized Steel Reinforcement Bar .....	0.49
03 21 13 00-0147	LF	#4, Grade 50, Walls, Galvanized Steel Reinforcement Bar .....	0.84
03 21 13 00-0148	LF	#5, Grade 50, Walls, Galvanized Steel Reinforcement Bar .....	1.28
03 21 13 00-0149	LF	#6, Grade 50, Walls, Galvanized Steel Reinforcement Bar .....	1.77
03 21 13 00-0150	LF	#3, Grade 60, Walls, Galvanized Steel Reinforcement Bar .....	0.51



<b>Concrete</b>	<b>03</b>	<b>CS</b>
<b>Concrete Reinforcing</b>	<b>03 20</b>	
<b>Reinforcement Bars</b>	<b>03 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 21 13 00-0151 LF #4, Grade 60, Walls, Galvanized Steel Reinforcement Bar .....	0.87	
03 21 13 00-0152 LF #5, Grade 60, Walls, Galvanized Steel Reinforcement Bar .....	1.31	
03 21 13 00-0153 LF #6, Grade 60, Walls, Galvanized Steel Reinforcement Bar .....	1.83	
03 21 13 00-0154 LF #7, Grade 60, Walls, Galvanized Steel Reinforcement Bar .....	2.40	
03 21 13 00-0155 LF #8, Grade 60, Walls, Galvanized Steel Reinforcement Bar .....	3.04	
03 21 13 00-0156 LF #9, Grade 60, Walls, Galvanized Steel Reinforcement Bar .....	3.77	
03 21 13 00-0157 LF #10, Grade 60, Walls, Galvanized Steel Reinforcement Bar .....	4.68	
03 21 13 00-0158 LF #11, Grade 60, Walls, Galvanized Steel Reinforcement Bar .....	5.63	
03 21 13 00-0159 LF #14, Grade 60, Walls, Galvanized Steel Reinforcement Bar .....	7.89	
03 21 13 00-0160 LF #18, Grade 60, Walls, Galvanized Steel Reinforcement Bar .....	13.66	
03 21 13 00-0161 LF #6, Grade 75, Walls, Galvanized Steel Reinforcement Bar .....	1.88	
03 21 13 00-0162 LF #7, Grade 75, Walls, Galvanized Steel Reinforcement Bar .....	2.48	
03 21 13 00-0163 LF #8, Grade 75, Walls, Galvanized Steel Reinforcement Bar .....	3.13	
03 21 13 00-0164 LF #9, Grade 75, Walls, Galvanized Steel Reinforcement Bar .....	3.90	
03 21 13 00-0165 LF #10, Grade 75, Walls, Galvanized Steel Reinforcement Bar .....	4.83	
03 21 13 00-0166 LF #11, Grade 75, Walls, Galvanized Steel Reinforcement Bar .....	5.82	
03 21 13 00-0167 LF #14, Grade 75, Walls, Galvanized Steel Reinforcement Bar .....	8.17	
03 21 13 00-0168 LF #18, Grade 75, Walls, Galvanized Steel Reinforcement Bar .....	14.15	

**03 21 16 Epoxy-Coated Reinforcement Steel Bars (03 21)**

**03 21 16 00-0001 Beams And Girders, Epoxy Coated Steel Reinforcement Bar (03 21 16)**

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0002 LF #3, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	0.58	
03 21 16 00-0003 LF #4, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	0.99	
03 21 16 00-0004 LF #5, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	1.48	
03 21 16 00-0005 LF #6, Grade 40, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	2.05	
03 21 16 00-0006 LF #3, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	0.59	
03 21 16 00-0007 LF #4, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	1.01	
03 21 16 00-0008 LF #5, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	1.51	
03 21 16 00-0009 LF #6, Grade 50, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	2.08	
03 21 16 00-0010 LF #3, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	0.61	
03 21 16 00-0011 LF #4, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	1.03	
03 21 16 00-0012 LF #5, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	1.55	
03 21 16 00-0013 LF #6, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	2.14	
03 21 16 00-0014 LF #7, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	2.79	
03 21 16 00-0015 LF #8, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	3.48	
03 21 16 00-0016 LF #9, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	4.28	
03 21 16 00-0017 LF #10, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	5.24	
03 21 16 00-0018 LF #11, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	6.25	
03 21 16 00-0019 LF #14, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	8.68	
03 21 16 00-0020 LF #18, Grade 60, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	14.86	
03 21 16 00-0021 LF #6, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	2.19	
03 21 16 00-0022 LF #7, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	2.86	
03 21 16 00-0023 LF #8, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	3.57	
03 21 16 00-0024 LF #9, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	4.41	
03 21 16 00-0025 LF #10, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	5.40	
03 21 16 00-0026 LF #11, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	6.44	
03 21 16 00-0027 LF #14, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	8.95	
03 21 16 00-0028 LF #18, Grade 75, Beams And Girders, Epoxy Coated Steel Reinforcement Bar .....	15.36	

**03 21 16 00-0029 Columns, Epoxy Coated Steel Reinforcement Bar (03 21 16)**

Note: ASTM A-775 Epoxy Coated Steel.

03 21 16 00-0030 LF #3, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar .....	0.61	
03 21 16 00-0031 LF #4, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar .....	1.05	
03 21 16 00-0032 LF #5, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar .....	1.55	
03 21 16 00-0033 LF #6, Grade 40, Columns, Epoxy Coated Steel Reinforcement Bar .....	2.15	
03 21 16 00-0034 LF #3, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar .....	0.62	
03 21 16 00-0035 LF #4, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar .....	1.07	
03 21 16 00-0036 LF #5, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar .....	1.58	
03 21 16 00-0037 LF #6, Grade 50, Columns, Epoxy Coated Steel Reinforcement Bar .....	2.18	
03 21 16 00-0038 LF #3, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	0.64	
03 21 16 00-0039 LF #4, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	1.09	
03 21 16 00-0040 LF #5, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	1.62	
03 21 16 00-0041 LF #6, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	2.24	
03 21 16 00-0042 LF #7, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	2.91	
03 21 16 00-0043 LF #8, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	3.62	
03 21 16 00-0044 LF #9, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	4.44	
03 21 16 00-0045 LF #10, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	5.43	
03 21 16 00-0046 LF #11, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	6.46	
03 21 16 00-0047 LF #14, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	8.97	
03 21 16 00-0048 LF #18, Grade 60, Columns, Epoxy Coated Steel Reinforcement Bar .....	15.31	
03 21 16 00-0049 LF #6, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	2.29	
03 21 16 00-0050 LF #7, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	2.98	
03 21 16 00-0051 LF #8, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	3.71	
03 21 16 00-0052 LF #9, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	4.57	
03 21 16 00-0053 LF #10, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	5.59	
03 21 16 00-0054 LF #11, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	6.65	
03 21 16 00-0055 LF #14, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	9.24	
03 21 16 00-0056 LF #18, Grade 75, Columns, Epoxy Coated Steel Reinforcement Bar .....	15.81	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>03 21 16 00-0057</b>	<b>Footings, Epoxy Coated Steel Reinforcement Bar</b> <small>(03 21 16)</small>	
	Note: ASTM A-775 Epoxy Coated Steel.	
03 21 16 00-0058	LF #3, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.53
03 21 16 00-0059	LF #4, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.91
03 21 16 00-0060	LF #5, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.37
03 21 16 00-0061	LF #6, Grade 40, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.90
03 21 16 00-0062	LF #3, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.54
03 21 16 00-0063	LF #4, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.93
03 21 16 00-0064	LF #5, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.40
03 21 16 00-0065	LF #6, Grade 50, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.93
03 21 16 00-0066	LF #3, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.56
03 21 16 00-0067	LF #4, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	0.95
03 21 16 00-0068	LF #5, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.44
03 21 16 00-0069	LF #6, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	1.99
03 21 16 00-0070	LF #7, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.60
03 21 16 00-0071	LF #8, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.27
03 21 16 00-0072	LF #9, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	4.02
03 21 16 00-0073	LF #10, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	4.94
03 21 16 00-0074	LF #11, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	5.92
03 21 16 00-0075	LF #14, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	8.26
03 21 16 00-0076	LF #18, Grade 60, Footings, Epoxy Coated Steel Reinforcement Bar.....	14.19
03 21 16 00-0077	LF #6, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.04
03 21 16 00-0078	LF #7, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	2.67
03 21 16 00-0079	LF #8, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	3.36
03 21 16 00-0080	LF #9, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	4.15
03 21 16 00-0081	LF #10, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	5.10
03 21 16 00-0082	LF #11, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	6.11
03 21 16 00-0083	LF #14, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	8.53
03 21 16 00-0084	LF #18, Grade 75, Footings, Epoxy Coated Steel Reinforcement Bar.....	14.69

<b>03 21 16 00-0085</b>	<b>Slab On Grade, Epoxy Coated Steel Reinforcement Bar</b> <small>(03 21 16)</small>	
	Note: ASTM A-775 Epoxy Coated Steel.	
03 21 16 00-0086	LF #3, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.51
03 21 16 00-0087	LF #4, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.89
03 21 16 00-0088	LF #5, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.33
03 21 16 00-0089	LF #6, Grade 40, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.85
03 21 16 00-0090	LF #3, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.52
03 21 16 00-0091	LF #4, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.91
03 21 16 00-0092	LF #5, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.36
03 21 16 00-0093	LF #6, Grade 50, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.88
03 21 16 00-0094	LF #3, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.54
03 21 16 00-0095	LF #4, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	0.93
03 21 16 00-0096	LF #5, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.40
03 21 16 00-0097	LF #6, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.94
03 21 16 00-0098	LF #7, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.54
03 21 16 00-0099	LF #8, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.18
03 21 16 00-0100	LF #9, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.94
03 21 16 00-0101	LF #10, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.84
03 21 16 00-0102	LF #11, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.81
03 21 16 00-0103	LF #14, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.11
03 21 16 00-0104	LF #18, Grade 60, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	13.96
03 21 16 00-0105	LF #6, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	1.99
03 21 16 00-0106	LF #7, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	2.61
03 21 16 00-0107	LF #8, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	3.27
03 21 16 00-0108	LF #9, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	4.07
03 21 16 00-0109	LF #10, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	5.00
03 21 16 00-0110	LF #11, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	6.00
03 21 16 00-0111	LF #14, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	8.38
03 21 16 00-0112	LF #18, Grade 75, Slab On Grade, Epoxy Coated Steel Reinforcement Bar.....	14.46

<b>03 21 16 00-0113</b>	<b>Elevated Slabs, Epoxy Coated Steel Reinforcement Bar</b> <small>(03 21 16)</small>	
	Note: ASTM A-775 Epoxy Coated Steel.	
03 21 16 00-0114	LF #3, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.48
03 21 16 00-0115	LF #4, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.83
03 21 16 00-0116	LF #5, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.26
03 21 16 00-0117	LF #6, Grade 40, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.75
03 21 16 00-0118	LF #3, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.49
03 21 16 00-0119	LF #4, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.85
03 21 16 00-0120	LF #5, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.29
03 21 16 00-0121	LF #6, Grade 50, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.78
03 21 16 00-0122	LF #3, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.51
03 21 16 00-0123	LF #4, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	0.87
03 21 16 00-0124	LF #5, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.33
03 21 16 00-0125	LF #6, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.84
03 21 16 00-0126	LF #7, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.42
03 21 16 00-0127	LF #8, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.03
03 21 16 00-0128	LF #9, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.77



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 21	16 00-0129	LF	#10, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.65	
	03 21	16 00-0130	LF	#11, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.59	
	03 21	16 00-0131	LF	#14, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	7.83	
	03 21	16 00-0132	LF	#18, Grade 60, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	13.51	
	03 21	16 00-0133	LF	#6, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	1.89	
	03 21	16 00-0134	LF	#7, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	2.49	
	03 21	16 00-0135	LF	#8, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.12	
	03 21	16 00-0136	LF	#9, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	3.90	
	03 21	16 00-0137	LF	#10, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	4.81	
	03 21	16 00-0138	LF	#11, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	5.78	
	03 21	16 00-0139	LF	#14, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	8.10	
	03 21	16 00-0140	LF	#18, Grade 75, Elevated Slabs, Epoxy Coated Steel Reinforcement Bar.....	14.01	
	03 21	16 00-0141		<b>Walls, Epoxy Coated Steel Reinforcement Bar</b> (03 21 16) Note: ASTM A-775 Epoxy Coated Steel.		
	03 21	16 00-0142	LF	#3, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.47	
	03 21	16 00-0143	LF	#4, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.81	
	03 21	16 00-0144	LF	#5, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.22	
	03 21	16 00-0145	LF	#6, Grade 40, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.70	
	03 21	16 00-0146	LF	#3, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.48	
	03 21	16 00-0147	LF	#4, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.83	
	03 21	16 00-0148	LF	#5, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.25	
	03 21	16 00-0149	LF	#6, Grade 50, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.73	
	03 21	16 00-0150	LF	#3, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.50	
	03 21	16 00-0151	LF	#4, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	0.85	
	03 21	16 00-0152	LF	#5, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.29	
	03 21	16 00-0153	LF	#6, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.79	
	03 21	16 00-0154	LF	#7, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.35	
	03 21	16 00-0155	LF	#8, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.97	
	03 21	16 00-0156	LF	#9, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.68	
	03 21	16 00-0157	LF	#10, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.56	
	03 21	16 00-0158	LF	#11, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.48	
	03 21	16 00-0159	LF	#14, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.69	
	03 21	16 00-0160	LF	#18, Grade 60, Walls, Epoxy Coated Steel Reinforcement Bar.....	13.29	
	03 21	16 00-0161	LF	#6, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	1.84	
	03 21	16 00-0162	LF	#7, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	2.42	
	03 21	16 00-0163	LF	#8, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.06	
	03 21	16 00-0164	LF	#9, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	3.81	
	03 21	16 00-0165	LF	#10, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	4.72	
	03 21	16 00-0166	LF	#11, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	5.67	
	03 21	16 00-0167	LF	#14, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	7.96	
	03 21	16 00-0168	LF	#18, Grade 75, Walls, Epoxy Coated Steel Reinforcement Bar.....	13.79	
	03 21	16 00-0169		<b>Epoxy Coated Deformed Straight Dowels</b> (03 21 16) Note: Excludes drilling. See CSI section 02 41 19 13-0221 for drilling in concrete.		
	03 21	16 00-0170	EA	3/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	2.71	
				For Up To 12" Length, Deduct	-0.31	
				For >12" To <24" Length, Deduct	-0.16	
	03 21	16 00-0171	EA	1/2" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	3.21	
				For Up To 12" Length, Deduct	-0.47	
				For >12" To <24" Length, Deduct	-0.24	
	03 21	16 00-0172	EA	5/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	3.89	
				For Up To 12" Length, Deduct	-0.70	
				For >12" To <24" Length, Deduct	-0.35	
	03 21	16 00-0173	EA	3/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	4.59	
				For Up To 12" Length, Deduct	-0.94	
				For >12" To <24" Length, Deduct	-0.47	
	03 21	16 00-0174	EA	7/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	5.65	
				For Up To 12" Length, Deduct	-1.28	
				For >12" To <24" Length, Deduct	-0.64	
	03 21	16 00-0175	EA	1" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	6.62	
				For Up To 12" Length, Deduct	-1.57	
				For >12" To <24" Length, Deduct	-0.78	
	03 21	16 00-0176	EA	1-1/8" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	7.87	
				For Up To 12" Length, Deduct	-1.90	
				For >12" To <24" Length, Deduct	-0.95	
	03 21	16 00-0177	EA	1-1/4" Diameter x 24" Long, Epoxy Coated Deformed Straight Dowel.....	9.44	
				For Up To 12" Length, Deduct	-2.30	
				For >12" To <24" Length, Deduct	-1.15	
	03 22			<b>Fabric And Grid Reinforcing</b> (03 20)		
	03 22 11			<b>Plain Welded Wire Fabric Reinforcing</b> (03 22)		
				Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.		
	03 22 11 00-0001			<b>Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs</b> (03 22 11) Note: Includes bar chairs. Under 5 tons. ASTM A-185		
	03 22 11 00-0002	SF		6" x 6" x #10, 21 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4).....	0.61	
				For >5 Ton, Deduct	-0.09	

<b>03</b>	<b>Concrete</b>
<b>03 20</b>	<b>Concrete Reinforcing</b>
<b>03 22</b>	<b>Fabric And Grid Reinforcing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 22 11 00-0003 SF 6" x 6" x #8, 30 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) .....	0.70	
For >5 Ton, Deduct	-0.11	
03 22 11 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) .....	0.79	
For >5 Ton, Deduct	-0.12	
03 22 11 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) .....	0.92	
For >5 Ton, Deduct	-0.13	
03 22 11 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) .....	0.73	
For >5 Ton, Deduct	-0.11	
03 22 11 00-0007 SF 4" x 4" x #8, 44 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) .....	0.82	
For >5 Ton, Deduct	-0.12	
03 22 11 00-0008 SF 4" x 4" x #6, 62 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) .....	1.00	
For >5 Ton, Deduct	-0.14	
03 22 11 00-0009 SF 4" x 4" x #4, 85 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) .....	1.16	
For >5 Ton, Deduct	-0.16	
03 22 11 00-0010 SF 2" x 2" x #12, 37 LB/CSF, Plain Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W0.9 x W0.9) .....	1.06	
For >5 Ton, Deduct	-0.14	
<b>03 22 13 Galvanized Welded Wire Fabric Reinforcing (03 22)</b>		
<b>03 22 13 00-0001 Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 13)</b>		
Note: Includes bar chairs. Under 5 tons.		
03 22 13 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) .....	0.67	
For >5 Ton, Deduct	-0.10	
03 22 13 00-0003 SF 6" x 6" x #8, 29 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) .....	0.77	
For >5 Ton, Deduct	-0.11	
03 22 13 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) .....	0.88	
For >5 Ton, Deduct	-0.13	
03 22 13 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) .....	1.05	
For >5 Ton, Deduct	-0.15	
03 22 13 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) .....	0.81	
For >5 Ton, Deduct	-0.12	
03 22 13 00-0007 SF 4" x 4" x #8, 43 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) .....	0.92	
For >5 Ton, Deduct	-0.13	
03 22 13 00-0008 SF 4" x 4" x #6, 62 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) .....	1.16	
For >5 Ton, Deduct	-0.16	
03 22 13 00-0009 SF 4" x 4" x #4, 85 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) .....	1.36	
For >5 Ton, Deduct	-0.18	
<b>03 22 13 00-0010 Galvanized Welded Wire Reinforcement Wrap Placed In Beams And Columns (03 22 13)</b>		
Note: Includes bar chairs. Under 5 tons.		
03 22 13 00-0011 SF 2" x 2" x #14, 21 LB/CSF, Galvanized Welded Wire Fabric Reinforcing Wrap Placed In Beams And Columns (W0.5 x W0.5) .....	2.44	
For >5 Ton, Deduct	-0.39	
<b>03 22 16 Epoxy-Coated Welded Wire Fabric Reinforcing (03 22)</b>		
<b>03 22 16 00-0001 Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 16)</b>		
Note: Includes bar chairs. Under 5 tons.		
03 22 16 00-0002 SF 6" x 6" x #10, 21 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) .....	0.66	
For >5 Ton, Deduct	-0.10	
03 22 16 00-0003 SF 6" x 6" x #8, 29 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) .....	0.76	
For >5 Ton, Deduct	-0.11	
03 22 16 00-0004 SF 6" x 6" x #6, 42 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) .....	0.87	
For >5 Ton, Deduct	-0.13	
03 22 16 00-0005 SF 6" x 6" x #4, 58 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) .....	1.03	
For >5 Ton, Deduct	-0.15	
03 22 16 00-0006 SF 4" x 4" x #10, 31 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W1.4 x W1.4) .....	0.80	
For >5 Ton, Deduct	-0.12	
03 22 16 00-0007 SF 4" x 4" x #8, 43 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.1 x W2.1) .....	0.90	
For >5 Ton, Deduct	-0.13	
03 22 16 00-0008 SF 4" x 4" x #6, 62 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W2.9 x W2.9) .....	1.14	
For >5 Ton, Deduct	-0.16	
03 22 16 00-0009 SF 4" x 4" x #4, 85 LB/CSF, Epoxy Coated Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (W4.0 x W4.0) .....	1.33	
For >5 Ton, Deduct	-0.18	
<b>03 22 23 Stainless Steel Welded Wire Fabric Reinforcing (03 22)</b>		
Note: Includes cutting, tie wire, tying, overlap, bar chairs and all non-mechanical splicing.		
<b>03 22 23 00-0001 Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs (03 22 23)</b>		
03 22 23 00-0002 SF 6" x 6" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs .....	1.04	
03 22 23 00-0003 SF 4" x 4" x #10, Stainless Steel Welded Wire Fabric Reinforcing Placed In Floors Or Slabs .....	1.32	

### 03 30 Cast-In-Place Concrete (03)

See CSI section 01 74 19 00-0037 for hauling over 15 miles.





<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 31 Structural Concrete (03 30)

**03 31 13 Heavyweight Structural Concrete (03 31)**

Note: Includes delivery and placement of material. See CSI section 02 41 00 00-0000 for demolition, 03 05 00 00-0001 for admixtures, 03 11 00 00-0000 for forming, 03 20 00 00-0000 for reinforcing, 03 35 00 00-0000 for finishing, 03 39 00 00-0000 for curing.

03 31 13 00-0001 Concrete Slab Assemblies (03 31 13)

03 31 13 00-0002 3,000 PSI Slab On Grade Concrete Slabs Assemblies (03 31 13 00-0001)

Note: Includes forms, welded wire reinforcement (where necessary), #3-#6 reinforcing rods at 12" on center with chairs (where necessary), vapor barrier, concrete, curing, latex or hot asphalt expansion joints, control joints, screed, float, and finish for pedestrian slabs. Excludes excavation, base, earthwork, and expansion joints along existing slab. See CSI section 03 05 00 00-0001 for color additive alternative, 03 31 13 00-0088 for concrete pumping equipment.

03 31 13 00-0003	SF 4" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	7.13
	For 2,000 PSI Concrete, Deduct	-0.22
	For 2,500 PSI Concrete, Deduct	-0.11
	For 3,500 PSI Concrete, Add	0.08
	For 4,000 PSI Concrete, Add	0.26
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.13
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.40
	For Up To 500, Add	2.65
	For >500 To 1,000, Add	1.83
	For >1,000 To 2,000, Add	1.02
	For >2,000 To 5,000, Add	0.51
	For >10,000 To 20,000, Deduct	-0.20
	For >20,000 To 35,000, Deduct	-0.38
	For >35,000 To 50,000, Deduct	-0.56
	For >50,000 To 70,000, Deduct	-0.74
	For >70,000, Deduct	-0.92
03 31 13 00-0004	SF 5" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	7.82
	For 2,000 PSI Concrete, Deduct	-0.25
	For 2,500 PSI Concrete, Deduct	-0.12
	For 3,500 PSI Concrete, Add	0.09
	For 4,000 PSI Concrete, Add	0.29
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.13
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.40
	For Up To 500, Add	2.84
	For >500 To 1,000, Add	1.97
	For >1,000 To 2,000, Add	1.10
	For >2,000 To 5,000, Add	0.55
	For >10,000 To 20,000, Deduct	-0.23
	For >20,000 To 35,000, Deduct	-0.43
	For >35,000 To 50,000, Deduct	-0.62
	For >50,000 To 70,000, Deduct	-0.82
	For >70,000, Deduct	-1.01
03 31 13 00-0005	SF 6" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	8.82
	For 2,000 PSI Concrete, Deduct	-0.29
	For 2,500 PSI Concrete, Deduct	-0.15
	For 3,500 PSI Concrete, Add	0.10
	For 4,000 PSI Concrete, Add	0.34
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.13
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.40
	For Up To 500, Add	3.13
	For >500 To 1,000, Add	2.18
	For >1,000 To 2,000, Add	1.22
	For >2,000 To 5,000, Add	0.61
	For >10,000 To 20,000, Deduct	-0.27
	For >20,000 To 35,000, Deduct	-0.49
	For >35,000 To 50,000, Deduct	-0.71
	For >50,000 To 70,000, Deduct	-0.93
	For >70,000, Deduct	-1.15
03 31 13 00-0006	SF 7" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	9.77
	For 2,000 PSI Concrete, Deduct	-0.34
	For 2,500 PSI Concrete, Deduct	-0.17
	For 3,500 PSI Concrete, Add	0.12
	For 4,000 PSI Concrete, Add	0.39
	For Reinforcing Rods Are At 18" On Center, Deduct	-0.13
	For Reinforcing Rods Are At 24" On Center, Deduct	-0.40
	For Up To 500, Add	3.38
	For >500 To 1,000, Add	2.36
	For >1,000 To 2,000, Add	1.33
	For >2,000 To 5,000, Add	0.67
	For >10,000 To 20,000, Deduct	-0.31
	For >20,000 To 35,000, Deduct	-0.55
	For >35,000 To 50,000, Deduct	-0.80
	For >50,000 To 70,000, Deduct	-1.04
	For >70,000, Deduct	-1.29

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31	13 00-0007	SF	8" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	10.58	
			<i>For 2,000 PSI Concrete, Deduct</i>	-0.37	
			<i>For 2,500 PSI Concrete, Deduct</i>	-0.19	
			<i>For 3,500 PSI Concrete, Add</i>	0.13	
			<i>For 4,000 PSI Concrete, Add</i>	0.43	
			<i>For Reinforcing Rods Are At 18" On Center, Deduct</i>	-0.13	
			<i>For Reinforcing Rods Are At 24" On Center, Deduct</i>	-0.40	
			<i>For Up To 500, Add</i>	3.60	
			<i>For &gt;500 To 1,000, Add</i>	2.51	
			<i>For &gt;1,000 To 2,000, Add</i>	1.43	
			<i>For &gt;2,000 To 5,000, Add</i>	0.71	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.34	
			<i>For &gt;20,000 To 35,000, Deduct</i>	-0.61	
			<i>For &gt;35,000 To 50,000, Deduct</i>	-0.87	
			<i>For &gt;50,000 To 70,000, Deduct</i>	-1.14	
			<i>For &gt;70,000, Deduct</i>	-1.40	
03 31	13 00-0008	SF	10" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	12.68	
			<i>For 2,000 PSI Concrete, Deduct</i>	-0.47	
			<i>For 2,500 PSI Concrete, Deduct</i>	-0.23	
			<i>For 3,500 PSI Concrete, Add</i>	0.17	
			<i>For 4,000 PSI Concrete, Add</i>	0.55	
			<i>For Reinforcing Rods Are At 18" On Center, Deduct</i>	-0.13	
			<i>For Reinforcing Rods Are At 24" On Center, Deduct</i>	-0.40	
			<i>For Up To 500, Add</i>	4.13	
			<i>For &gt;500 To 1,000, Add</i>	2.90	
			<i>For &gt;1,000 To 2,000, Add</i>	1.67	
			<i>For &gt;2,000 To 5,000, Add</i>	0.83	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.43	
			<i>For &gt;20,000 To 35,000, Deduct</i>	-0.75	
			<i>For &gt;35,000 To 50,000, Deduct</i>	-1.07	
			<i>For &gt;50,000 To 70,000, Deduct</i>	-1.39	
			<i>For &gt;70,000, Deduct</i>	-1.70	
03 31	13 00-0009	SF	12" 3,000 PSI Slab On Grade Concrete Slabs Assembly .....	14.29	
			<i>For 2,000 PSI Concrete, Deduct</i>	-0.54	
			<i>For 2,500 PSI Concrete, Deduct</i>	-0.27	
			<i>For 3,500 PSI Concrete, Add</i>	0.19	
			<i>For 4,000 PSI Concrete, Add</i>	0.63	
			<i>For Reinforcing Rods Are At 18" On Center, Deduct</i>	-0.13	
			<i>For Reinforcing Rods Are At 24" On Center, Deduct</i>	-0.40	
			<i>For Up To 500, Add</i>	4.57	
			<i>For &gt;500 To 1,000, Add</i>	3.21	
			<i>For &gt;1,000 To 2,000, Add</i>	1.86	
			<i>For &gt;2,000 To 5,000, Add</i>	0.93	
			<i>For &gt;10,000 To 20,000, Deduct</i>	-0.50	
			<i>For &gt;20,000 To 35,000, Deduct</i>	-0.86	
			<i>For &gt;35,000 To 50,000, Deduct</i>	-1.22	
			<i>For &gt;50,000 To 70,000, Deduct</i>	-1.57	
			<i>For &gt;70,000, Deduct</i>	-1.93	
03 31	13 00-0010		<b>Concrete Delivery And Placement</b> <small>(03 31 13)</small>		
			Note: Includes cleaning out equipment and standard concrete placement tests. See CSI section 01 45 23 00-0000 for additional tests, 03 05 00 00-0001 for admixtures.		
03 31	13 00-0011		<b>Place Concrete By Method Indicated</b> <small>(03 31 13 00-0010)</small>		
			Note: Tasks for concrete placement "By Concrete Pump" exclude the pumping equipment. See CSI section 03 31 13 00-0088 for concrete pumping equipment.		
03 31	13 00-0012		<b>Place Concrete Pile Caps</b> <small>(03 31 13 00-0011)</small>		
03 31	13 00-0013	CY	Crane And Bucket, Place 3,000 PSI Concrete Pile Caps .....	265.23	
			<i>For 2,000 PSI Concrete, Deduct</i>	-9.05	
			<i>For 2,500 PSI Concrete, Deduct</i>	-4.52	
			<i>For 3,500 PSI Concrete, Add</i>	8.38	
			<i>For 3,750 PSI Concrete, Add</i>	11.39	
			<i>For 4,000 PSI Concrete, Add</i>	14.41	
			<i>For 4,500 PSI Concrete, Add</i>	16.75	
			<i>For 5,000 PSI Concrete, Add</i>	19.10	
			<i>For 6,000 PSI Concrete, Add</i>	45.23	
			<i>For White Cement Concrete, Add</i>	20.10	
			<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	21.78	
			<i>For High Early Strength, Type 3 ASTM C150, Add</i>	16.75	
			<i>For Lightweight Aggregate, ASTM C330, Add</i>	50.25	
			<i>For Up To 20, Add</i>	39.09	
			<i>For &gt;20 To 50, Add</i>	14.66	
			<i>For &gt;100 To 200, Deduct</i>	-5.30	
			<i>For &gt;200 To 400, Deduct</i>	-10.61	
			<i>For &gt;400, Deduct</i>	-15.91	



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0014 CY Direct Chute, Place 3,000 PSI Concrete Pile Caps .....	212.00	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	17.80	
For >20 To 50, Add	6.68	
For >100 To 200, Deduct	-4.24	
For >200 To 400, Deduct	-8.48	
For >400, Deduct	-12.72	
03 31 13 00-0015 CY Concrete Pump, Place 3,000 PSI Concrete Pile Caps .....	223.83	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.80	
For 2,500 PSI Concrete, Deduct	-4.90	
For 3,500 PSI Concrete, Add	9.07	
For 3,750 PSI Concrete, Add	12.34	
For 4,000 PSI Concrete, Add	15.61	
For 4,500 PSI Concrete, Add	18.15	
For 5,000 PSI Concrete, Add	20.69	
For 6,000 PSI Concrete, Add	48.99	
For White Cement Concrete, Add	21.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
For High Early Strength, Type 3 ASTM C150, Add	18.15	
For Lightweight Aggregate, ASTM C330, Add	54.44	
For Up To 20, Add	16.95	
For >20 To 50, Add	6.36	
For >100 To 200, Deduct	-4.48	
For >200 To 400, Deduct	-8.95	
For >400, Deduct	-13.43	
<b>03 31 13 00-0016 Place Concrete Continuous Footings (03 31 13 00-0011)</b>		
03 31 13 00-0017 CY Crane And Bucket, Place 3,000 PSI Concrete Continuous Footings.....	254.37	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	34.75	
For >20 To 50, Add	13.03	
For >100 To 200, Deduct	-5.09	
For >200 To 400, Deduct	-10.17	
For >400, Deduct	-15.26	
03 31 13 00-0018 CY Direct Chute, Place 3,000 PSI Concrete Continuous Footings.....	207.06	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	15.82	
For >20 To 50, Add	5.93	
For >100 To 200, Deduct	-4.14	
For >200 To 400, Deduct	-8.28	
For >400, Deduct	-12.42	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31	13 00-0019	CY	Concrete Pump, Place 3,000 PSI Concrete Continuous Footings.....	219.13	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.80	
			For 2,500 PSI Concrete, Deduct	-4.90	
			For 3,500 PSI Concrete, Add	9.07	
			For 3,750 PSI Concrete, Add	12.34	
			For 4,000 PSI Concrete, Add	15.61	
			For 4,500 PSI Concrete, Add	18.15	
			For 5,000 PSI Concrete, Add	20.69	
			For 6,000 PSI Concrete, Add	48.99	
			For White Cement Concrete, Add	21.78	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
			For High Early Strength, Type 3 ASTM C150, Add	18.15	
			For Lightweight Aggregate, ASTM C330, Add	54.44	
			For Up To 20, Add	15.07	
			For >20 To 50, Add	5.65	
			For >100 To 200, Deduct	-4.38	
			For >200 To 400, Deduct	-8.77	
			For >400, Deduct	-13.15	
03 31	13 00-0020		Place Concrete Spread Footings (03 31 13 00-0011)		
03 31	13 00-0021	CY	Crane And Bucket, Place 3,000 PSI Concrete Spread Footings.....	314.09	
			For 2,000 PSI Concrete, Deduct	-9.05	
			For 2,500 PSI Concrete, Deduct	-4.52	
			For 3,500 PSI Concrete, Add	8.38	
			For 3,750 PSI Concrete, Add	11.39	
			For 4,000 PSI Concrete, Add	14.41	
			For 4,500 PSI Concrete, Add	16.75	
			For 5,000 PSI Concrete, Add	19.10	
			For 6,000 PSI Concrete, Add	45.23	
			For White Cement Concrete, Add	20.10	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
			For High Early Strength, Type 3 ASTM C150, Add	16.75	
			For Lightweight Aggregate, ASTM C330, Add	50.25	
			For Up To 20, Add	58.64	
			For >20 To 50, Add	21.99	
			For >100 To 200, Deduct	-6.28	
			For >200 To 400, Deduct	-12.56	
			For >400, Deduct	-18.85	
03 31	13 00-0022	CY	Direct Chute, Place 3,000 PSI Concrete Spread Footings.....	234.25	
			For 2,000 PSI Concrete, Deduct	-9.05	
			For 2,500 PSI Concrete, Deduct	-4.52	
			For 3,500 PSI Concrete, Add	8.38	
			For 3,750 PSI Concrete, Add	11.39	
			For 4,000 PSI Concrete, Add	14.41	
			For 4,500 PSI Concrete, Add	16.75	
			For 5,000 PSI Concrete, Add	19.10	
			For 6,000 PSI Concrete, Add	45.23	
			For White Cement Concrete, Add	20.10	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
			For High Early Strength, Type 3 ASTM C150, Add	16.75	
			For Lightweight Aggregate, ASTM C330, Add	50.25	
			For Up To 20, Add	26.70	
			For >20 To 50, Add	10.01	
			For >100 To 200, Deduct	-4.69	
			For >200 To 400, Deduct	-9.37	
			For >400, Deduct	-14.06	
03 31	13 00-0023	CY	Concrete Pump, Place 3,000 PSI Concrete Spread Footings.....	245.04	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.80	
			For 2,500 PSI Concrete, Deduct	-4.90	
			For 3,500 PSI Concrete, Add	9.07	
			For 3,750 PSI Concrete, Add	12.34	
			For 4,000 PSI Concrete, Add	15.61	
			For 4,500 PSI Concrete, Add	18.15	
			For 5,000 PSI Concrete, Add	20.69	
			For 6,000 PSI Concrete, Add	48.99	
			For White Cement Concrete, Add	21.78	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
			For High Early Strength, Type 3 ASTM C150, Add	18.15	
			For Lightweight Aggregate, ASTM C330, Add	54.44	
			For Up To 20, Add	25.43	
			For >20 To 50, Add	9.54	
			For >100 To 200, Deduct	-4.90	
			For >200 To 400, Deduct	-9.80	
			For >400, Deduct	-14.70	
03 31	13 00-0024		Place Concrete Mat Foundation (03 31 13 00-0011)		



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0025 CY Crane And Bucket, Place 3,000 PSI Concrete Mat Foundation.....	193.56	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	10.42	
For >20 To 50, Add	3.91	
For >100 To 200, Deduct	-3.87	
For >200 To 400, Deduct	-7.74	
For >400, Deduct	-11.61	
03 31 13 00-0026 CY Direct Chute, Place 3,000 PSI Concrete Mat Foundation.....	179.36	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	4.74	
For >20 To 50, Add	1.78	
For >100 To 200, Deduct	-3.59	
For >200 To 400, Deduct	-7.17	
For >400, Deduct	-10.76	
03 31 13 00-0027 CY Concrete Pump, Place 3,000 PSI Concrete Mat Foundation.....	191.35	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.80	
For 2,500 PSI Concrete, Deduct	-4.90	
For 3,500 PSI Concrete, Add	9.07	
For 3,750 PSI Concrete, Add	12.34	
For 4,000 PSI Concrete, Add	15.61	
For 4,500 PSI Concrete, Add	18.15	
For 5,000 PSI Concrete, Add	20.69	
For 6,000 PSI Concrete, Add	48.99	
For White Cement Concrete, Add	21.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
For High Early Strength, Type 3 ASTM C150, Add	18.15	
For Lightweight Aggregate, ASTM C330, Add	54.44	
For Up To 20, Add	3.96	
For >20 To 50, Add	1.48	
For >100 To 200, Deduct	-3.83	
For >200 To 400, Deduct	-7.65	
For >400, Deduct	-11.48	
<b>03 31 13 00-0028 Place Concrete Grade Beams (03 31 13 00-0011)</b>		
03 31 13 00-0029 CY Crane And Bucket, Place 3,000 PSI Concrete Grade Beams.....	237.00	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	27.80	
For >20 To 50, Add	10.43	
For >100 To 200, Deduct	-4.74	
For >200 To 400, Deduct	-9.48	
For >400, Deduct	-14.22	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 31 13 00-0030	CY Direct Chute, Place 3,000 PSI Concrete Grade Beams.....	199.14
	<i>For 2,000 PSI Concrete, Deduct</i>	-9.05
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.52
	<i>For 3,500 PSI Concrete, Add</i>	8.38
	<i>For 3,750 PSI Concrete, Add</i>	11.39
	<i>For 4,000 PSI Concrete, Add</i>	14.41
	<i>For 4,500 PSI Concrete, Add</i>	16.75
	<i>For 5,000 PSI Concrete, Add</i>	19.10
	<i>For 6,000 PSI Concrete, Add</i>	45.23
	<i>For White Cement Concrete, Add</i>	20.10
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	21.78
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	16.75
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	50.25
	<i>For Up To 20, Add</i>	12.66
	<i>For &gt;20 To 50, Add</i>	4.75
	<i>For &gt;100 To 200, Deduct</i>	-3.98
	<i>For &gt;200 To 400, Deduct</i>	-7.97
	<i>For &gt;400, Deduct</i>	-11.95
03 31 13 00-0031	CY Concrete Pump, Place 3,000 PSI Concrete Grade Beams.....	211.60
	Note: Excludes pumping equipment.	
	<i>For 2,000 PSI Concrete, Deduct</i>	-9.80
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.90
	<i>For 3,500 PSI Concrete, Add</i>	9.07
	<i>For 3,750 PSI Concrete, Add</i>	12.34
	<i>For 4,000 PSI Concrete, Add</i>	15.61
	<i>For 4,500 PSI Concrete, Add</i>	18.15
	<i>For 5,000 PSI Concrete, Add</i>	20.69
	<i>For 6,000 PSI Concrete, Add</i>	48.99
	<i>For White Cement Concrete, Add</i>	21.78
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	23.59
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	18.15
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	54.44
	<i>For Up To 20, Add</i>	12.06
	<i>For &gt;20 To 50, Add</i>	4.52
	<i>For &gt;100 To 200, Deduct</i>	-4.23
	<i>For &gt;200 To 400, Deduct</i>	-8.46
	<i>For &gt;400, Deduct</i>	-12.70
03 31 13 00-0032	Place Concrete Slab On Grade <small>(03 31 13 00-0011)</small>	
03 31 13 00-0033	CY Up To 6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	238.63
	<i>For 2,000 PSI Concrete, Deduct</i>	-9.05
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.52
	<i>For 3,500 PSI Concrete, Add</i>	8.38
	<i>For 3,750 PSI Concrete, Add</i>	11.39
	<i>For 4,000 PSI Concrete, Add</i>	14.41
	<i>For 4,500 PSI Concrete, Add</i>	16.75
	<i>For 5,000 PSI Concrete, Add</i>	19.10
	<i>For 6,000 PSI Concrete, Add</i>	45.23
	<i>For White Cement Concrete, Add</i>	20.10
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	21.78
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	16.75
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	50.25
	<i>For Up To 20, Add</i>	28.45
	<i>For &gt;20 To 50, Add</i>	10.67
	<i>For &gt;100 To 200, Deduct</i>	-4.77
	<i>For &gt;200 To 400, Deduct</i>	-9.55
	<i>For &gt;400, Deduct</i>	-14.32
03 31 13 00-0034	CY >6", By Crane And Bucket, Place 3,000 PSI Concrete Slab On Grade.....	221.47
	<i>For 2,000 PSI Concrete, Deduct</i>	-9.05
	<i>For 2,500 PSI Concrete, Deduct</i>	-4.52
	<i>For 3,500 PSI Concrete, Add</i>	8.38
	<i>For 3,750 PSI Concrete, Add</i>	11.39
	<i>For 4,000 PSI Concrete, Add</i>	14.41
	<i>For 4,500 PSI Concrete, Add</i>	16.75
	<i>For 5,000 PSI Concrete, Add</i>	19.10
	<i>For 6,000 PSI Concrete, Add</i>	45.23
	<i>For White Cement Concrete, Add</i>	20.10
	<i>For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add</i>	21.78
	<i>For High Early Strength, Type 3 ASTM C150, Add</i>	16.75
	<i>For Lightweight Aggregate, ASTM C330, Add</i>	50.25
	<i>For Up To 20, Add</i>	21.59
	<i>For &gt;20 To 50, Add</i>	8.10
	<i>For &gt;100 To 200, Deduct</i>	-4.43
	<i>For &gt;200 To 400, Deduct</i>	-8.86
	<i>For &gt;400, Deduct</i>	-13.29



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0035 CY Up To 6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade.....	199.89	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	12.96	
For >20 To 50, Add	4.86	
For >100 To 200, Deduct	-4.00	
For >200 To 400, Deduct	-8.00	
For >400, Deduct	-11.99	
03 31 13 00-0036 CY >6", By Direct Chute, Place 3,000 PSI Concrete Slab On Grade .....	192.07	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	9.83	
For >20 To 50, Add	3.69	
For >100 To 200, Deduct	-3.84	
For >200 To 400, Deduct	-7.68	
For >400, Deduct	-11.52	
03 31 13 00-0037 CY Up To 6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade.....	208.45	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.80	
For 2,500 PSI Concrete, Deduct	-4.90	
For 3,500 PSI Concrete, Add	9.07	
For 3,750 PSI Concrete, Add	12.34	
For 4,000 PSI Concrete, Add	15.61	
For 4,500 PSI Concrete, Add	18.15	
For 5,000 PSI Concrete, Add	20.69	
For 6,000 PSI Concrete, Add	48.99	
For White Cement Concrete, Add	21.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
For High Early Strength, Type 3 ASTM C150, Add	18.15	
For Lightweight Aggregate, ASTM C330, Add	54.44	
For Up To 20, Add	10.80	
For >20 To 50, Add	4.05	
For >100 To 200, Deduct	-4.17	
For >200 To 400, Deduct	-8.34	
For >400, Deduct	-12.51	
03 31 13 00-0038 CY >6", By Concrete Pump, Place 3,000 PSI Concrete Slab On Grade .....	201.94	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.80	
For 2,500 PSI Concrete, Deduct	-4.90	
For 3,500 PSI Concrete, Add	9.07	
For 3,750 PSI Concrete, Add	12.34	
For 4,000 PSI Concrete, Add	15.61	
For 4,500 PSI Concrete, Add	18.15	
For 5,000 PSI Concrete, Add	20.69	
For 6,000 PSI Concrete, Add	48.99	
For White Cement Concrete, Add	21.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
For High Early Strength, Type 3 ASTM C150, Add	18.15	
For Lightweight Aggregate, ASTM C330, Add	54.44	
For Up To 20, Add	8.19	
For >20 To 50, Add	3.07	
For >100 To 200, Deduct	-4.04	
For >200 To 400, Deduct	-8.08	
For >400, Deduct	-12.12	

03 31 13 00-0039 Place Concrete Duct Bank (03 31 13 00-0011)

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	03 31 13 00-0040	CY	Direct Chute, Place 3,000 PSI Concrete Duct Bank .....	194.31	
			For 2,000 PSI Concrete, Deduct	-9.05	
			For 2,500 PSI Concrete, Deduct	-4.52	
			For 3,500 PSI Concrete, Add	8.38	
			For 3,750 PSI Concrete, Add	11.39	
			For 4,000 PSI Concrete, Add	14.41	
			For 4,500 PSI Concrete, Add	16.75	
			For 5,000 PSI Concrete, Add	19.10	
			For 6,000 PSI Concrete, Add	45.23	
			For White Cement Concrete, Add	20.10	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
			For High Early Strength, Type 3 ASTM C150, Add	16.75	
			For Lightweight Aggregate, ASTM C330, Add	50.25	
			For Up To 20, Add	10.72	
			For >20 To 50, Add	4.02	
			For >100 To 200, Deduct	-3.89	
			For >200 To 400, Deduct	-7.77	
			For >400, Deduct	-11.66	
	03 31 13 00-0041		Place Concrete Stairs (03 31 13 00-0011) .....	487.52	
	03 31 13 00-0042	CY	Crane And Bucket, Place 3,000 PSI On Grade Concrete Stairs .....	487.52	
			For 2,000 PSI Concrete, Deduct	-9.05	
			For 2,500 PSI Concrete, Deduct	-4.52	
			For 3,500 PSI Concrete, Add	8.38	
			For 3,750 PSI Concrete, Add	11.39	
			For 4,000 PSI Concrete, Add	14.41	
			For 4,500 PSI Concrete, Add	16.75	
			For 5,000 PSI Concrete, Add	19.10	
			For 6,000 PSI Concrete, Add	45.23	
			For White Cement Concrete, Add	20.10	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
			For High Early Strength, Type 3 ASTM C150, Add	16.75	
			For Lightweight Aggregate, ASTM C330, Add	50.25	
			For Up To 20, Add	128.01	
			For >20 To 50, Add	48.00	
			For >100 To 200, Deduct	-9.75	
			For >200 To 400, Deduct	-19.50	
			For >400, Deduct	-29.25	
	03 31 13 00-0043	CY	Direct Chute, Place 3,000 PSI On Grade Concrete Stairs .....	313.24	
			For 2,000 PSI Concrete, Deduct	-9.05	
			For 2,500 PSI Concrete, Deduct	-4.52	
			For 3,500 PSI Concrete, Add	8.38	
			For 3,750 PSI Concrete, Add	11.39	
			For 4,000 PSI Concrete, Add	14.41	
			For 4,500 PSI Concrete, Add	16.75	
			For 5,000 PSI Concrete, Add	19.10	
			For 6,000 PSI Concrete, Add	45.23	
			For White Cement Concrete, Add	20.10	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
			For High Early Strength, Type 3 ASTM C150, Add	16.75	
			For Lightweight Aggregate, ASTM C330, Add	50.25	
			For Up To 20, Add	58.30	
			For >20 To 50, Add	21.86	
			For >100 To 200, Deduct	-6.26	
			For >200 To 400, Deduct	-12.53	
			For >400, Deduct	-18.79	
	03 31 13 00-0044	CY	Concrete Pump, Place 3,000 PSI On Grade Concrete Stairs .....	302.93	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.80	
			For 2,500 PSI Concrete, Deduct	-4.90	
			For 3,500 PSI Concrete, Add	9.07	
			For 3,750 PSI Concrete, Add	12.34	
			For 4,000 PSI Concrete, Add	15.61	
			For 4,500 PSI Concrete, Add	18.15	
			For 5,000 PSI Concrete, Add	20.69	
			For 6,000 PSI Concrete, Add	48.99	
			For White Cement Concrete, Add	21.78	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
			For High Early Strength, Type 3 ASTM C150, Add	18.15	
			For Lightweight Aggregate, ASTM C330, Add	54.44	
			For Up To 20, Add	48.59	
			For >20 To 50, Add	18.22	
			For >100 To 200, Deduct	-6.06	
			For >200 To 400, Deduct	-12.12	
			For >400, Deduct	-18.18	
	03 31 13 00-0045		Place Concrete Thrust Blocks And Backfill (03 31 13 00-0011) .....		





<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0046 CY Direct Chute, Place 3,000 PSI Concrete Thrust Blocks .....	238.70	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	28.48	
For >20 To 50, Add	10.68	
For >100 To 200, Deduct	-4.77	
For >200 To 400, Deduct	-9.55	
For >400, Deduct	-14.32	
<b>03 31 13 00-0047 Place Concrete Slurry (03 31 13 00-0011)</b>		
Note: 2 bag cement per CY.		
03 31 13 00-0048 CY Direct Chute, Place 1,200 PSI Concrete Slurry .....	217.76	
03 31 13 00-0049 CY Concrete Pump, Place 1,200 PSI Concrete Slurry .....	205.87	
Note: Excludes pumping equipment.		
<b>03 31 13 00-0050 Hand Mix And Place Concrete (03 31 13 00-0011)</b>		
03 31 13 00-0051 CF Hand Mix And Place Concrete .....	31.15	
Note: For use where conventional equipment access is limited or when directed by the owner.		
For 2,000 PSI Concrete, Deduct	-0.39	
For 2,500 PSI Concrete, Deduct	-0.19	
For 3,500 PSI Concrete, Add	0.36	
For 3,750 PSI Concrete, Add	0.49	
For 4,000 PSI Concrete, Add	0.62	
For 4,500 PSI Concrete, Add	0.72	
For 5,000 PSI Concrete, Add	0.82	
For 6,000 PSI Concrete, Add	1.93	
For White Cement Concrete, Add	0.86	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	0.93	
For High Early Strength, Type 3 ASTM C150, Add	0.72	
For Lightweight Aggregate, ASTM C330, Add	2.15	
<b>03 31 13 00-0052 Place Concrete Superstructure By Method Indicated (03 31 13 00-0010)</b>		
See CSI section 03 31 13 00-0088 for concrete pump truck.		
<b>03 31 13 00-0053 Place Elevated Concrete Beams (03 31 13 00-0052)</b>		
03 31 13 00-0054 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Beams .....	341.24	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	69.50	
For >20 To 50, Add	26.06	
For >100 To 200, Deduct	-6.82	
For >200 To 400, Deduct	-13.65	
For >400, Deduct	-20.47	
03 31 13 00-0055 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Beams .....	256.80	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.80	
For 2,500 PSI Concrete, Deduct	-4.90	
For 3,500 PSI Concrete, Add	9.07	
For 3,750 PSI Concrete, Add	12.34	
For 4,000 PSI Concrete, Add	15.61	
For 4,500 PSI Concrete, Add	18.15	
For 5,000 PSI Concrete, Add	20.69	
For 6,000 PSI Concrete, Add	48.99	
For White Cement Concrete, Add	21.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
For High Early Strength, Type 3 ASTM C150, Add	18.15	
For Lightweight Aggregate, ASTM C330, Add	54.44	
For Up To 20, Add	30.14	
For >20 To 50, Add	11.30	
For >100 To 200, Deduct	-5.14	
For >200 To 400, Deduct	-10.27	
For >400, Deduct	-15.41	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>03 31 13 00-0056</b>	<b>Place Elevated Concrete Slab</b> <small>(03 31 13 00-0052)</small>	
03 31 13 00-0057	CY Up To 6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab.....	249.30
	For 2,000 PSI Concrete, Deduct	-9.05
	For 2,500 PSI Concrete, Deduct	-4.52
	For 3,500 PSI Concrete, Add	8.38
	For 3,750 PSI Concrete, Add	11.39
	For 4,000 PSI Concrete, Add	14.41
	For 4,500 PSI Concrete, Add	16.75
	For 5,000 PSI Concrete, Add	19.10
	For 6,000 PSI Concrete, Add	45.23
	For White Cement Concrete, Add	20.10
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78
	For High Early Strength, Type 3 ASTM C150, Add	16.75
	For Lightweight Aggregate, ASTM C330, Add	50.25
	For Up To 20, Add	32.72
	For >20 To 50, Add	12.27
	For >100 To 200, Deduct	-4.99
	For >200 To 400, Deduct	-9.97
	For >400, Deduct	-14.96
03 31 13 00-0058	CY >6", By Crane And Bucket, Place 3,000 PSI Elevated Concrete Slab .....	229.55
	For 2,000 PSI Concrete, Deduct	-9.05
	For 2,500 PSI Concrete, Deduct	-4.52
	For 3,500 PSI Concrete, Add	8.38
	For 3,750 PSI Concrete, Add	11.39
	For 4,000 PSI Concrete, Add	14.41
	For 4,500 PSI Concrete, Add	16.75
	For 5,000 PSI Concrete, Add	19.10
	For 6,000 PSI Concrete, Add	45.23
	For White Cement Concrete, Add	20.10
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78
	For High Early Strength, Type 3 ASTM C150, Add	16.75
	For Lightweight Aggregate, ASTM C330, Add	50.25
	For Up To 20, Add	24.82
	For >20 To 50, Add	9.31
	For >100 To 200, Deduct	-4.59
	For >200 To 400, Deduct	-9.18
	For >400, Deduct	-13.77
03 31 13 00-0059	CY Up To 6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab.....	216.93
	Note: Excludes pumping equipment.	
	For 2,000 PSI Concrete, Deduct	-9.80
	For 2,500 PSI Concrete, Deduct	-4.90
	For 3,500 PSI Concrete, Add	9.07
	For 3,750 PSI Concrete, Add	12.34
	For 4,000 PSI Concrete, Add	15.61
	For 4,500 PSI Concrete, Add	18.15
	For 5,000 PSI Concrete, Add	20.69
	For 6,000 PSI Concrete, Add	48.99
	For White Cement Concrete, Add	21.78
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59
	For High Early Strength, Type 3 ASTM C150, Add	18.15
	For Lightweight Aggregate, ASTM C330, Add	54.44
	For Up To 20, Add	14.19
	For >20 To 50, Add	5.32
	For >100 To 200, Deduct	-4.34
	For >200 To 400, Deduct	-8.68
	For >400, Deduct	-13.02
03 31 13 00-0060	CY >6", By Concrete Pump, Place 3,000 PSI Elevated Concrete Slab .....	208.37
	Note: Excludes pumping equipment.	
	For 2,000 PSI Concrete, Deduct	-9.80
	For 2,500 PSI Concrete, Deduct	-4.90
	For 3,500 PSI Concrete, Add	9.07
	For 3,750 PSI Concrete, Add	12.34
	For 4,000 PSI Concrete, Add	15.61
	For 4,500 PSI Concrete, Add	18.15
	For 5,000 PSI Concrete, Add	20.69
	For 6,000 PSI Concrete, Add	48.99
	For White Cement Concrete, Add	21.78
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59
	For High Early Strength, Type 3 ASTM C150, Add	18.15
	For Lightweight Aggregate, ASTM C330, Add	54.44
	For Up To 20, Add	10.76
	For >20 To 50, Add	4.04
	For >100 To 200, Deduct	-4.17
	For >200 To 400, Deduct	-8.33
	For >400, Deduct	-12.50

**03 31 13 00-0061** Place Concrete Columns (03 31 13 00-0052)



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0062 CY 12" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns .....	355.14	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	75.06	
For >20 To 50, Add	28.15	
For >100 To 200, Deduct	-7.10	
For >200 To 400, Deduct	-14.21	
For >400, Deduct	-21.31	
03 31 13 00-0063 CY 18" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns .....	303.89	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	54.56	
For >20 To 50, Add	20.46	
For >100 To 200, Deduct	-6.08	
For >200 To 400, Deduct	-12.16	
For >400, Deduct	-18.23	
03 31 13 00-0064 CY 24" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns .....	267.23	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	39.89	
For >20 To 50, Add	14.96	
For >100 To 200, Deduct	-5.34	
For >200 To 400, Deduct	-10.69	
For >400, Deduct	-16.03	
03 31 13 00-0065 CY 36" Square Or Round, By Crane And Bucket, Place 3,000 PSI Concrete Columns .....	250.89	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	33.36	
For >20 To 50, Add	12.51	
For >100 To 200, Deduct	-5.02	
For >200 To 400, Deduct	-10.04	
For >400, Deduct	-15.05	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 31 13 00-0066	CY	12" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns .....	262.83	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-9.80	
		For 2,500 PSI Concrete, Deduct	-4.90	
		For 3,500 PSI Concrete, Add	9.07	
		For 3,750 PSI Concrete, Add	12.34	
		For 4,000 PSI Concrete, Add	15.61	
		For 4,500 PSI Concrete, Add	18.15	
		For 5,000 PSI Concrete, Add	20.69	
		For 6,000 PSI Concrete, Add	48.99	
		For White Cement Concrete, Add	21.78	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
		For High Early Strength, Type 3 ASTM C150, Add	18.15	
		For Lightweight Aggregate, ASTM C330, Add	54.44	
		For Up To 20, Add	32.55	
		For >20 To 50, Add	12.21	
		For >100 To 200, Deduct	-5.26	
		For >200 To 400, Deduct	-10.51	
		For >400, Deduct	-15.77	
03 31 13 00-0067	CY	18" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns .....	240.61	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-9.80	
		For 2,500 PSI Concrete, Deduct	-4.90	
		For 3,500 PSI Concrete, Add	9.07	
		For 3,750 PSI Concrete, Add	12.34	
		For 4,000 PSI Concrete, Add	15.61	
		For 4,500 PSI Concrete, Add	18.15	
		For 5,000 PSI Concrete, Add	20.69	
		For 6,000 PSI Concrete, Add	48.99	
		For White Cement Concrete, Add	21.78	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
		For High Early Strength, Type 3 ASTM C150, Add	18.15	
		For Lightweight Aggregate, ASTM C330, Add	54.44	
		For Up To 20, Add	23.66	
		For >20 To 50, Add	8.87	
		For >100 To 200, Deduct	-4.81	
		For >200 To 400, Deduct	-9.62	
		For >400, Deduct	-14.44	
03 31 13 00-0068	CY	24" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns .....	224.70	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-9.80	
		For 2,500 PSI Concrete, Deduct	-4.90	
		For 3,500 PSI Concrete, Add	9.07	
		For 3,750 PSI Concrete, Add	12.34	
		For 4,000 PSI Concrete, Add	15.61	
		For 4,500 PSI Concrete, Add	18.15	
		For 5,000 PSI Concrete, Add	20.69	
		For 6,000 PSI Concrete, Add	48.99	
		For White Cement Concrete, Add	21.78	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
		For High Early Strength, Type 3 ASTM C150, Add	18.15	
		For Lightweight Aggregate, ASTM C330, Add	54.44	
		For Up To 20, Add	17.30	
		For >20 To 50, Add	6.49	
		For >100 To 200, Deduct	-4.49	
		For >200 To 400, Deduct	-8.99	
		For >400, Deduct	-13.48	
03 31 13 00-0069	CY	36" Square Or Round, By Concrete Pump, Place 3,000 PSI Concrete Columns .....	217.63	
		Note: Excludes pumping equipment.		
		For 2,000 PSI Concrete, Deduct	-9.80	
		For 2,500 PSI Concrete, Deduct	-4.90	
		For 3,500 PSI Concrete, Add	9.07	
		For 3,750 PSI Concrete, Add	12.34	
		For 4,000 PSI Concrete, Add	15.61	
		For 4,500 PSI Concrete, Add	18.15	
		For 5,000 PSI Concrete, Add	20.69	
		For 6,000 PSI Concrete, Add	48.99	
		For White Cement Concrete, Add	21.78	
		For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
		For High Early Strength, Type 3 ASTM C150, Add	18.15	
		For Lightweight Aggregate, ASTM C330, Add	54.44	
		For Up To 20, Add	14.47	
		For >20 To 50, Add	5.43	
		For >100 To 200, Deduct	-4.35	
		For >200 To 400, Deduct	-8.71	
		For >400, Deduct	-13.06	

03 31 13 00-0070 Place Concrete Walls (03 31 13 00-0052)



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0071 CY 8" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls.....	343.41	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	70.36	
For >20 To 50, Add	26.39	
For >100 To 200, Deduct	-6.87	
For >200 To 400, Deduct	-13.74	
For >400, Deduct	-20.60	
03 31 13 00-0072 CY 12" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls.....	328.82	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	64.53	
For >20 To 50, Add	24.20	
For >100 To 200, Deduct	-6.58	
For >200 To 400, Deduct	-13.15	
For >400, Deduct	-19.73	
03 31 13 00-0073 CY 15" Thick, By Crane And Bucket, Place 3,000 PSI Concrete Walls.....	290.63	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	49.25	
For >20 To 50, Add	18.47	
For >100 To 200, Deduct	-5.81	
For >200 To 400, Deduct	-11.63	
For >400, Deduct	-17.44	
03 31 13 00-0074 CY 8" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls.....	247.59	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	32.04	
For >20 To 50, Add	12.01	
For >100 To 200, Deduct	-4.95	
For >200 To 400, Deduct	-9.90	
For >400, Deduct	-14.86	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

03 31 13 00-0075	CY 12" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls .....	231.58	
	For 2,000 PSI Concrete, Deduct	-9.05	
	For 2,500 PSI Concrete, Deduct	-4.52	
	For 3,500 PSI Concrete, Add	8.38	
	For 3,750 PSI Concrete, Add	11.39	
	For 4,000 PSI Concrete, Add	14.41	
	For 4,500 PSI Concrete, Add	16.75	
	For 5,000 PSI Concrete, Add	19.10	
	For 6,000 PSI Concrete, Add	45.23	
	For White Cement Concrete, Add	20.10	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
	For High Early Strength, Type 3 ASTM C150, Add	16.75	
	For Lightweight Aggregate, ASTM C330, Add	50.25	
	For Up To 20, Add	25.63	
	For >20 To 50, Add	9.61	
	For >100 To 200, Deduct	-4.63	
	For >200 To 400, Deduct	-9.26	
	For >400, Deduct	-13.89	
03 31 13 00-0076	CY 15" Thick, By Direct Chute, Place 3,000 PSI Concrete Walls .....	223.57	
	For 2,000 PSI Concrete, Deduct	-9.05	
	For 2,500 PSI Concrete, Deduct	-4.52	
	For 3,500 PSI Concrete, Add	8.38	
	For 3,750 PSI Concrete, Add	11.39	
	For 4,000 PSI Concrete, Add	14.41	
	For 4,500 PSI Concrete, Add	16.75	
	For 5,000 PSI Concrete, Add	19.10	
	For 6,000 PSI Concrete, Add	45.23	
	For White Cement Concrete, Add	20.10	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
	For High Early Strength, Type 3 ASTM C150, Add	16.75	
	For Lightweight Aggregate, ASTM C330, Add	50.25	
	For Up To 20, Add	22.43	
	For >20 To 50, Add	8.41	
	For >100 To 200, Deduct	-4.47	
	For >200 To 400, Deduct	-8.94	
	For >400, Deduct	-13.41	
03 31 13 00-0077	CY 8" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls .....	257.74	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-9.80	
	For 2,500 PSI Concrete, Deduct	-4.90	
	For 3,500 PSI Concrete, Add	9.07	
	For 3,750 PSI Concrete, Add	12.34	
	For 4,000 PSI Concrete, Add	15.61	
	For 4,500 PSI Concrete, Add	18.15	
	For 5,000 PSI Concrete, Add	20.69	
	For 6,000 PSI Concrete, Add	48.99	
	For White Cement Concrete, Add	21.78	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
	For High Early Strength, Type 3 ASTM C150, Add	18.15	
	For Lightweight Aggregate, ASTM C330, Add	54.44	
	For Up To 20, Add	30.51	
	For >20 To 50, Add	11.44	
	For >100 To 200, Deduct	-5.15	
	For >200 To 400, Deduct	-10.31	
	For >400, Deduct	-15.46	
03 31 13 00-0078	CY 12" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls .....	242.48	
	Note: Excludes pumping equipment.		
	For 2,000 PSI Concrete, Deduct	-9.80	
	For 2,500 PSI Concrete, Deduct	-4.90	
	For 3,500 PSI Concrete, Add	9.07	
	For 3,750 PSI Concrete, Add	12.34	
	For 4,000 PSI Concrete, Add	15.61	
	For 4,500 PSI Concrete, Add	18.15	
	For 5,000 PSI Concrete, Add	20.69	
	For 6,000 PSI Concrete, Add	48.99	
	For White Cement Concrete, Add	21.78	
	For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
	For High Early Strength, Type 3 ASTM C150, Add	18.15	
	For Lightweight Aggregate, ASTM C330, Add	54.44	
	For Up To 20, Add	24.41	
	For >20 To 50, Add	9.15	
	For >100 To 200, Deduct	-4.85	
	For >200 To 400, Deduct	-9.70	
	For >400, Deduct	-14.55	



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0079 CY 15" Thick, By Concrete Pump, Place 3,000 PSI Concrete Walls .....	234.86	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.80	
For 2,500 PSI Concrete, Deduct	-4.90	
For 3,500 PSI Concrete, Add	9.07	
For 3,750 PSI Concrete, Add	12.34	
For 4,000 PSI Concrete, Add	15.61	
For 4,500 PSI Concrete, Add	18.15	
For 5,000 PSI Concrete, Add	20.69	
For 6,000 PSI Concrete, Add	48.99	
For White Cement Concrete, Add	21.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
For High Early Strength, Type 3 ASTM C150, Add	18.15	
For Lightweight Aggregate, ASTM C330, Add	54.44	
For Up To 20, Add	21.36	
For >20 To 50, Add	8.01	
For >100 To 200, Deduct	-4.70	
For >200 To 400, Deduct	-9.39	
For >400, Deduct	-14.09	
<b>03 31 13 00-0080 Place Elevated Concrete Stairs (03 31 13 00-0052)</b>		
03 31 13 00-0081 CY Crane And Bucket, Place 3,000 PSI Elevated Concrete Stairs .....	523.13	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	142.25	
For >20 To 50, Add	53.34	
For >100 To 200, Deduct	-10.46	
For >200 To 400, Deduct	-20.93	
For >400, Deduct	-31.39	
03 31 13 00-0082 CY Direct Chute, Place 3,000 PSI Elevated Concrete Stairs.....	329.43	
For 2,000 PSI Concrete, Deduct	-9.05	
For 2,500 PSI Concrete, Deduct	-4.52	
For 3,500 PSI Concrete, Add	8.38	
For 3,750 PSI Concrete, Add	11.39	
For 4,000 PSI Concrete, Add	14.41	
For 4,500 PSI Concrete, Add	16.75	
For 5,000 PSI Concrete, Add	19.10	
For 6,000 PSI Concrete, Add	45.23	
For White Cement Concrete, Add	20.10	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
For High Early Strength, Type 3 ASTM C150, Add	16.75	
For Lightweight Aggregate, ASTM C330, Add	50.25	
For Up To 20, Add	64.77	
For >20 To 50, Add	24.29	
For >100 To 200, Deduct	-6.59	
For >200 To 400, Deduct	-13.18	
For >400, Deduct	-19.77	
03 31 13 00-0083 CY Concrete Pump, Place 3,000 PSI Elevated Concrete Stairs.....	316.40	
Note: Excludes pumping equipment.		
For 2,000 PSI Concrete, Deduct	-9.80	
For 2,500 PSI Concrete, Deduct	-4.90	
For 3,500 PSI Concrete, Add	9.07	
For 3,750 PSI Concrete, Add	12.34	
For 4,000 PSI Concrete, Add	15.61	
For 4,500 PSI Concrete, Add	18.15	
For 5,000 PSI Concrete, Add	20.69	
For 6,000 PSI Concrete, Add	48.99	
For White Cement Concrete, Add	21.78	
For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
For High Early Strength, Type 3 ASTM C150, Add	18.15	
For Lightweight Aggregate, ASTM C330, Add	54.44	
For Up To 20, Add	53.98	
For >20 To 50, Add	20.24	
For >100 To 200, Deduct	-6.33	
For >200 To 400, Deduct	-12.66	
For >400, Deduct	-18.98	
<b>03 31 13 00-0084 Place Concrete Coping (03 31 13 00-0052)</b>		

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 31</b>	<b>Structural Concrete</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31	13 00-0085	CY	Crane And Bucket, Place 3,000 PSI Concrete Coping .....	535.42	
			For 2,000 PSI Concrete, Deduct	-9.05	
			For 2,500 PSI Concrete, Deduct	-4.52	
			For 3,500 PSI Concrete, Add	8.38	
			For 3,750 PSI Concrete, Add	11.39	
			For 4,000 PSI Concrete, Add	14.41	
			For 4,500 PSI Concrete, Add	16.75	
			For 5,000 PSI Concrete, Add	19.10	
			For 6,000 PSI Concrete, Add	45.23	
			For White Cement Concrete, Add	20.10	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
			For High Early Strength, Type 3 ASTM C150, Add	16.75	
			For Lightweight Aggregate, ASTM C330, Add	50.25	
			For Up To 20, Add	147.17	
			For >20 To 50, Add	55.19	
			For >100 To 200, Deduct	-10.71	
			For >200 To 400, Deduct	-21.42	
			For >400, Deduct	-32.13	
03 31	13 00-0086	CY	Direct Chute, Place 3,000 PSI Concrete Coping .....	328.34	
			For 2,000 PSI Concrete, Deduct	-9.05	
			For 2,500 PSI Concrete, Deduct	-4.52	
			For 3,500 PSI Concrete, Add	8.38	
			For 3,750 PSI Concrete, Add	11.39	
			For 4,000 PSI Concrete, Add	14.41	
			For 4,500 PSI Concrete, Add	16.75	
			For 5,000 PSI Concrete, Add	19.10	
			For 6,000 PSI Concrete, Add	45.23	
			For White Cement Concrete, Add	20.10	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	21.78	
			For High Early Strength, Type 3 ASTM C150, Add	16.75	
			For Lightweight Aggregate, ASTM C330, Add	50.25	
			For Up To 20, Add	64.34	
			For >20 To 50, Add	24.13	
			For >100 To 200, Deduct	-6.57	
			For >200 To 400, Deduct	-13.13	
			For >400, Deduct	-19.70	
03 31	13 00-0087	CY	Concrete Pump, Place 3,000 PSI Concrete Coping.....	425.08	
			Note: Excludes pumping equipment.		
			For 2,000 PSI Concrete, Deduct	-9.80	
			For 2,500 PSI Concrete, Deduct	-4.90	
			For 3,500 PSI Concrete, Add	9.07	
			For 3,750 PSI Concrete, Add	12.34	
			For 4,000 PSI Concrete, Add	15.61	
			For 4,500 PSI Concrete, Add	18.15	
			For 5,000 PSI Concrete, Add	20.69	
			For 6,000 PSI Concrete, Add	48.99	
			For White Cement Concrete, Add	21.78	
			For High Sulfate Resistance, Type 5 Cement Concrete ASTM C150, Add	23.59	
			For High Early Strength, Type 3 ASTM C150, Add	18.15	
			For Lightweight Aggregate, ASTM C330, Add	54.44	
			For Up To 20, Add	97.45	
			For >20 To 50, Add	36.54	
			For >100 To 200, Deduct	-8.50	
			For >200 To 400, Deduct	-17.00	
			For >400, Deduct	-25.50	
03 31	13 00-0088		<b>Concrete Pumping With Boom Truck</b> <small>(03 31 13 00-0010)</small>		
			Note: Includes truck rental, operator, and local travel delivery. For delivery/set-up of equipment add one hour, for clean-up of equipment add one hour. Use four hours as the minimum cost including set-up and clean-up. Excludes concrete, use "Concrete Pump" concrete tasks from appropriate section to place into pump hopper and place concrete. Sizes are measured at a 30 degree vertical reach.		
03 31	13 00-0089	HR	55' To 60' Boom Truck For Concrete Placement (95 CY Per Hour Rating) .....	171.90	
03 31	13 00-0090	HR	70' To 80' Boom Truck For Concrete Placement (117 CY Per Hour Rating) .....	185.80	
03 31	13 00-0091	HR	90' To 100' Boom Truck For Concrete Placement (117 CY Per Hour Rating) .....	236.00	
03 31	13 00-0092	HR	105' To 115' Boom Truck For Concrete Placement (117 CY Per Hour Rating) .....	267.25	
03 31	13 00-0093	HR	120' To 130' Boom Truck For Concrete Placement (170 CY Per Hour Rating) .....	299.50	
03 31	13 00-0094	HR	135' To 140' Boom Truck For Concrete Placement (170 CY Per Hour Rating) .....	367.80	
03 31	13 00-0095	HR	148' To 155' Boom Truck For Concrete Placement (170 CY Per Hour Rating) .....	408.55	
03 31	13 00-0096	HR	170' To 175' Boom Truck For Concrete Placement (182 CY Per Hour Rating) .....	507.25	
03 31	13 00-0097	HR	35 CY/HR, 66 HP Trailer Mounted Concrete Pump .....	122.63	
			Note: Includes hoses		
03 31	13 00-0098		<b>Concrete Carts</b> <small>(03 31 13 00-0010)</small>		
			Note: Used to place concrete were necessary.		
03 31	13 00-0099	CY	50' Haul, Non Motorized, Concrete Buggy .....	19.43	
03 31	13 00-0100	CY	150' Haul, Non Motorized, Concrete Buggy .....	26.02	
03 31	13 00-0101	CY	250' Haul, Non Motorized, Concrete Buggy .....	34.70	
03 31	13 00-0102	CY	50' Haul, Motorized, Concrete Buggy .....	8.27	
03 31	13 00-0103	CY	150' Haul, Motorized, Concrete Buggy .....	11.09	
03 31	13 00-0104	CY	250' Haul, Motorized, Concrete Buggy .....	14.78	
03 31	13 00-0105		<b>Delivery Fee For Small Purchases</b> <small>(03 31 13)</small>		





<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Structural Concrete	03 31	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 31 13 00-0106 CY Delivery Fee For Concrete Purchases Per CY For Each CY Less Than 9 CY ..... Note: The task quantity is 9 minus the number of CY's delivered. For example, the delivery fee for 2CY's is: (9-2) = 7.	17.65	
<b>03 31 13 00-0107 Equipment Pads (03 31 13)</b>		
<b>03 31 13 00-0108 Small Concrete Equipment Housekeeping Pad Assemblies (03 31 13 00-0107)</b> Note: Includes forms, hand mix concrete, finish, curing and reinforcing. For up to 50 SF per pad and up to 5 pads per project.		
03 31 13 00-0109 SF 4" Equipment Pad With Welded Wire Reinforcement .....	15.18	
03 31 13 00-0110 SF 4" Equipment Pad With Rebar .....	18.58	
03 31 13 00-0111 SF 6" Equipment Pad With Rebar .....	23.58	
03 31 13 00-0112 SF 8" Equipment Pad With Rebar .....	29.76	
<b>03 31 13 00-0113 Delivery Fee For Concrete, Per Truck Load (03 31 13)</b>		
03 31 13 00-0114 EA Concrete Delivery Fee, Per Truck..... Note: To be added to all concrete leaving concrete yard	40.00	
<b>03 35 Concrete Finishing (03 30)</b>		
<b>03 35 16 Heavy-Duty Concrete Floor Finishing (03 35)</b>		
<b>03 35 16 00-0001 Floor Finishes (03 35 16)</b> Note: Task is for final finish type and includes all required prior finishes.		
03 35 16 00-0002 SF Scream, Concrete Floor Finish .....	0.80	
For Up To 100, Add	1.60	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.20	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000, Deduct	-0.08	
03 35 16 00-0003 SF Darby, Concrete Floor Finish .....	0.96	
For Up To 100, Add	1.92	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.24	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000, Deduct	-0.10	
03 35 16 00-0004 SF Broom, Concrete Floor Finish .....	1.06	
For Up To 100, Add	2.12	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.27	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000, Deduct	-0.11	
03 35 16 00-0005 SF Final Float, Concrete Floor Finish .....	1.23	
For Up To 100, Add	2.46	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.31	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000, Deduct	-0.12	
03 35 16 00-0006 SF Steel Trowel, Concrete Floor Finish .....	1.39	
For Up To 100, Add	2.78	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.35	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000, Deduct	-0.14	
03 35 16 00-0007 SF Concrete Floor Finishes, Machine .....	1.23	
For Up To 100, Add	2.46	
For >100 To 250, Add	0.62	
For >250 To 500, Add	0.31	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000, Deduct	-0.12	
<b>03 35 23 Exposed Aggregate Concrete Finishing (03 35)</b>		
<b>03 35 23 00-0001 Exposed Aggregate, Concrete Finish (03 35 23)</b>		
03 35 23 00-0002 SF Exposed Aggregate, Concrete Floor Finish .....	2.31	
<b>03 35 26 Grooved Concrete Surface Finishing (03 35)</b>		
<b>03 35 26 00-0001 Ramp, Grooved Concrete Surface Finishing (03 35 26)</b>		
03 35 26 00-0002 SF Ramp, Grooved Concrete Surface Finishing .....	3.35	
<b>03 35 29 Tooled Concrete Finishing (03 35)</b>		
<b>03 35 29 00-0001 Solid Board Concrete Finish (03 35 29)</b>		
03 35 29 00-0002 SF Solid Board Concrete, Non Uniform Finish, 1 Use, Add To Formwork .....	14.44	
<b>03 35 29 00-0003 Marblecrete Finishes (03 35 29)</b>		

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 35</b>	<b>Concrete Finishing</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 29 00-0004	SF		2" Thick Marblecrete And Finish.....	39.59	
03 35 29 00-0005	SF		4" Thick Marblecrete And Finish.....	53.01	
<b>03 35 33 Stamped Concrete Finishing (03 35)</b>					
03 35 33 00-0001			Stamped Concrete Finishes (03 35 33)		
03 35 33 00-0002	SF		Up To 2,500 SF Stamped Concrete Finish.....	3.14	
03 35 33 00-0003	SF		>2,500 To 10,000 SF Stamped Concrete Finish.....	2.85	
03 35 33 00-0004	SF		>10,000 SF Stamped Concrete Finish.....	2.72	
<b>03 35 43 Polished Concrete Finishing (03 35)</b>					
03 35 43 00-0001			Concrete Floor Polishing System (03 35 43)		
Note: The floor polishing system below may consist of one or multiple applications of each task/step below depending on existing conditions and desired results.					
03 35 43 00-0002	SF		Mechanically Grind Concrete Floor With 40 Grit Metal Bonded Diamond Wheels.....	1.48	
			For Up To 500, Add	2.87	
			For >500 To 1,000, Add	2.66	
			For >1,000 To 2,500, Add	1.76	
			For >2,500 To 4,000, Add	0.92	
			For >8,000 To 15,000, Deduct	-0.36	
			For >15,000 To 25,000, Deduct	-0.45	
			For >25,000, Deduct	-0.64	
03 35 43 00-0003	SF		Mechanically Grind Concrete Floor With 80 Grit Metal Bonded Diamond Wheels.....	1.18	
			For Up To 500, Add	2.29	
			For >500 To 1,000, Add	2.12	
			For >1,000 To 2,500, Add	1.40	
			For >2,500 To 4,000, Add	0.73	
			For >8,000 To 15,000, Deduct	-0.28	
			For >15,000 To 25,000, Deduct	-0.36	
			For >25,000, Deduct	-0.51	
03 35 43 00-0004	SF		Mechanically Grind Concrete Floor With 100 Grit Resin Bonded Diamond Wheels.....	0.98	
			For Up To 500, Add	1.90	
			For >500 To 1,000, Add	1.76	
			For >1,000 To 2,500, Add	1.17	
			For >2,500 To 4,000, Add	0.61	
			For >8,000 To 15,000, Deduct	-0.24	
			For >15,000 To 25,000, Deduct	-0.30	
			For >25,000, Deduct	-0.42	
03 35 43 00-0005	SF		Mechanically Grind Concrete Floor With 150 Grit Metal Bonded Diamond Wheels.....	0.91	
			For Up To 500, Add	1.77	
			For >500 To 1,000, Add	1.64	
			For >1,000 To 2,500, Add	1.08	
			For >2,500 To 4,000, Add	0.56	
			For >8,000 To 15,000, Deduct	-0.22	
			For >15,000 To 25,000, Deduct	-0.28	
			For >25,000, Deduct	-0.39	
03 35 43 00-0006	SF		Mechanically Grind Concrete Floor With 200 Grit Resin Bonded Diamond Wheels.....	0.84	
			For Up To 500, Add	1.63	
			For >500 To 1,000, Add	1.51	
			For >1,000 To 2,500, Add	1.00	
			For >2,500 To 4,000, Add	0.52	
			For >8,000 To 15,000, Deduct	-0.20	
			For >15,000 To 25,000, Deduct	-0.26	
			For >25,000, Deduct	-0.36	
03 35 43 00-0007	SF		Mechanically Grind Concrete Floor With 400 Grit Resin Bonded Diamond Wheels.....	0.84	
			For Up To 500, Add	1.63	
			For >500 To 1,000, Add	1.51	
			For >1,000 To 2,500, Add	1.00	
			For >2,500 To 4,000, Add	0.52	
			For >8,000 To 15,000, Deduct	-0.20	
			For >15,000 To 25,000, Deduct	-0.26	
			For >25,000, Deduct	-0.36	
03 35 43 00-0008	SF		Mechanically Grind Concrete Floor With 800 Grit Resin Bonded Diamond Wheels.....	0.84	
			For Up To 500, Add	1.63	
			For >500 To 1,000, Add	1.51	
			For >1,000 To 2,500, Add	1.00	
			For >2,500 To 4,000, Add	0.52	
			For >8,000 To 15,000, Deduct	-0.20	
			For >15,000 To 25,000, Deduct	-0.26	
			For >25,000, Deduct	-0.36	
03 35 43 00-0009	SF		Mechanically Grind Concrete Floor With 1,500 Grit Resin Bonded Diamond Wheels.....	0.84	
			For Up To 500, Add	1.63	
			For >500 To 1,000, Add	1.51	
			For >1,000 To 2,500, Add	1.00	
			For >2,500 To 4,000, Add	0.52	
			For >8,000 To 15,000, Deduct	-0.20	
			For >15,000 To 25,000, Deduct	-0.26	
			For >25,000, Deduct	-0.36	



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Concrete Finishing	03 35	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 43 00-0010 SF High Speed Burnish Concrete Floor With Diamond Pads.....	0.18	
For Up To 500, Add	0.35	
For >500 To 1,000, Add	0.32	
For >1,000 To 2,500, Add	0.21	
For >2,500 To 4,000, Add	0.11	
For >8,000 To 15,000, Deduct	-0.04	
For >15,000 To 25,000, Deduct	-0.05	
For >25,000, Deduct	-0.08	
03 35 43 00-0011 SF Apply 1 Coat Of Concrete Densifier .....	0.23	
For Up To 500, Add	0.45	
For >500 To 1,000, Add	0.41	
For >1,000 To 2,500, Add	0.27	
For >2,500 To 4,000, Add	0.14	
For >8,000 To 15,000, Deduct	-0.06	
For >15,000 To 25,000, Deduct	-0.07	
For >25,000, Deduct	-0.10	
03 35 43 00-0012 SF Apply 2 Coats Of Concrete Densifier With Stain Protector .....	0.23	
For Up To 500, Add	0.45	
For >500 To 1,000, Add	0.41	
For >1,000 To 2,500, Add	0.27	
For >2,500 To 4,000, Add	0.14	
For >8,000 To 15,000, Deduct	-0.06	
For >15,000 To 25,000, Deduct	-0.07	
For >25,000, Deduct	-0.10	
03 35 43 00-0013 SF Concrete Floor Polishing Final Clean Up .....	0.12	
For Up To 500, Add	0.23	
For >500 To 1,000, Add	0.22	
For >1,000 To 2,500, Add	0.14	
For >2,500 To 4,000, Add	0.07	
For >8,000 To 15,000, Deduct	-0.03	
For >15,000 To 25,000, Deduct	-0.04	
For >25,000, Deduct	-0.05	
<b>03 35 63 Slip-Resistant Floor Finishing (03 35)</b>		
<b>03 35 63 00-0001 Slip-Resistant Floor Finishing (03 35 63)</b>		
03 35 63 00-0002 SF Aluminum Oxide Abrasive Floor Finish, 0.25 LB/SF .....	1.08	
For Up To 100, Add	1.52	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.19	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000, Deduct	-0.08	
03 35 63 00-0003 SF Silicone Carbide Abrasive Floor Finish 0.25 LB/SF .....	1.01	
For Up To 100, Add	1.52	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.19	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000, Deduct	-0.08	
<b>03 35 66 Acid Etch Floor Finishing (03 35)</b>		
<b>03 35 66 00-0001 Acid Etch Floor (03 35 66)</b>		
03 35 66 00-0002 SF Concrete Floor Finishes, Etch With Acid And Rinse .....	0.90	
For Up To 100, Add	0.74	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.09	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000, Deduct	-0.04	
<b>03 35 83 Wall Finishes (03 35)</b>		
<b>03 35 83 00-0001 Wall Finishes (03 35 83)</b>		
03 35 83 00-0002 SF Burlap Rub With Grout, New Concrete Wall Finishes.....	1.43	
For Up To 100, Add	2.66	
For >100 To 250, Add	0.67	
For >250 To 500, Add	0.33	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000, Deduct	-0.13	
03 35 83 00-0003 SF 1/16" Float Finish, New Concrete Wall Finishes .....	2.15	
For Up To 100, Add	4.02	
For >100 To 250, Add	1.01	
For >250 To 500, Add	0.50	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000, Deduct	-0.20	
03 35 83 00-0004 SF Etch With Acid And Rinse, New Concrete Wall Finishes .....	0.97	
For Up To 100, Add	0.88	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.11	
For >5,000 To 10,000, Deduct	-0.02	
For >10,000, Deduct	-0.04	

<b>03</b>	<b>Concrete</b>
<b>03 30</b>	<b>Cast-In-Place Concrete</b>
<b>03 35</b>	<b>Concrete Finishing</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 35 83 00-0005	SF		Bush Hammer Green Concrete, New Concrete Wall Finishes.....	4.29	
			<i>For Up To 100, Add</i>	8.48	
			<i>For &gt;100 To 250, Add</i>	2.12	
			<i>For &gt;250 To 500, Add</i>	1.06	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.21	
			<i>For &gt;10,000, Deduct</i>	-0.42	
03 35 83 00-0006	SF		Bush Hammer Cured Concrete, New Concrete Wall Finishes.....	6.65	
			<i>For Up To 100, Add</i>	13.10	
			<i>For &gt;100 To 250, Add</i>	3.28	
			<i>For &gt;250 To 500, Add</i>	1.64	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.33	
			<i>For &gt;10,000, Deduct</i>	-0.66	
03 35 83 00-0007	SF		Break Ties And Patch, New Concrete Wall Finishes.....	0.84	
			<i>For Up To 100, Add</i>	1.44	
			<i>For &gt;100 To 250, Add</i>	0.36	
			<i>For &gt;250 To 500, Add</i>	0.18	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.04	
			<i>For &gt;10,000, Deduct</i>	-0.07	
03 35 83 00-0008	SF		Carborundum Dry Rub, New Concrete Wall Finishes.....	2.79	
			<i>For Up To 100, Add</i>	5.34	
			<i>For &gt;100 To 250, Add</i>	1.34	
			<i>For &gt;250 To 500, Add</i>	0.67	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.13	
			<i>For &gt;10,000, Deduct</i>	-0.27	
03 35 83 00-0009	SF		Carborundum Wet Rub, New Concrete Wall Finishes.....	4.24	
			<i>For Up To 100, Add</i>	8.24	
			<i>For &gt;100 To 250, Add</i>	2.06	
			<i>For &gt;250 To 500, Add</i>	1.03	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.21	
			<i>For &gt;10,000, Deduct</i>	-0.41	
03 35 83 00-0010	SF		Up To 1/4" Penetration Sand Blasting, New Concrete Wall Finishes.....	2.66	
			<i>For Up To 100, Add</i>	4.58	
			<i>For &gt;100 To 250, Add</i>	1.15	
			<i>For &gt;250 To 500, Add</i>	0.57	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.11	
			<i>For &gt;10,000, Deduct</i>	-0.23	
03 35 83 00-0011	SF		>1/4" To 1/2" Penetration Sand Blasting, New Concrete Wall Finishes.....	7.45	
			<i>For Up To 100, Add</i>	13.42	
			<i>For &gt;100 To 250, Add</i>	3.36	
			<i>For &gt;250 To 500, Add</i>	1.68	
			<i>For &gt;5,000 To 10,000, Deduct</i>	-0.34	
			<i>For &gt;10,000, Deduct</i>	-0.67	

### 03 37 Specialty Placed Concrete (03 30)

Note: Includes gun finish. Not to be used for pumping concrete tasks. See CSI section 03 35 00 00-0000 for finishing.

#### 03 37 13 Shotcrete (03 37)

##### 03 37 13 00-0001 Shotcrete, Fiber Reinforced, Structural Repair (03 37 13)

03 37 13 00-0002	SF		1" Thick Shotcrete, Fiber Reinforced.....	4.77	
			<i>For Up To 25, Add</i>	0.71	
			<i>For &gt;25 To 50, Add</i>	0.39	
			<i>For &gt;50 To 150, Add</i>	0.12	
03 37 13 00-0003	SF		2" Thick Shotcrete, Fiber Reinforced.....	9.25	
			<i>For Up To 25, Add</i>	1.35	
			<i>For &gt;25 To 50, Add</i>	0.74	
			<i>For &gt;50 To 150, Add</i>	0.21	
03 37 13 00-0004	SF		3" Thick Shotcrete, Fiber Reinforced.....	13.44	
			<i>For Up To 25, Add</i>	1.91	
			<i>For &gt;25 To 50, Add</i>	1.05	
			<i>For &gt;50 To 150, Add</i>	0.29	
03 37 13 00-0005	SF		4" Thick Shotcrete, Fiber Reinforced.....	17.40	
			<i>For Up To 25, Add</i>	2.42	
			<i>For &gt;25 To 50, Add</i>	1.33	
			<i>For &gt;50 To 150, Add</i>	0.34	
03 37 13 00-0006	SF		6" Thick Shotcrete, Fiber Reinforced.....	24.81	
			<i>For Up To 25, Add</i>	3.31	
			<i>For &gt;25 To 50, Add</i>	1.79	
			<i>For &gt;50 To 150, Add</i>	0.41	

##### 03 37 13 00-0007 Gunite (Dry Mix Shotcrete), Sprayed (03 37 13)

See CSI section 03 22 11 00-0001 for wire mesh reinforcing.

03 37 13 00-0008	SF		1" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	4.34	
			<i>For Radius Or Irregular Surface, Add</i>	0.86	
			<i>For Up To 25, Add</i>	0.76	
			<i>For &gt;25 To 50, Add</i>	0.43	
			<i>For &gt;50 To 150, Add</i>	0.16	
03 37 13 00-0009	SF		2" Thick Gunite (Dry Mix Shotcrete), Sprayed.....	8.24	
			<i>For Radius Or Irregular Surface, Add</i>	1.55	
			<i>For Up To 25, Add</i>	1.40	
			<i>For &gt;25 To 50, Add</i>	0.80	
			<i>For &gt;50 To 150, Add</i>	0.29	



<b>Concrete</b>	<b>03</b>	<b>03</b>
Cast-In-Place Concrete	03 30	
Specialty Placed Concrete	03 37	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 37 13 00-0010 SF 3" Thick Gunitite (Dry Mix Shotcrete), Sprayed .....	11.79	
For Radius Or Irregular Surface, Add	2.09	
For Up To 25, Add	1.96	
For >25 To 50, Add	1.11	
For >50 To 150, Add	0.39	
03 37 13 00-0011 SF 4" Thick Gunitite (Dry Mix Shotcrete), Sprayed .....	15.02	
For Radius Or Irregular Surface, Add	2.51	
For Up To 25, Add	2.44	
For >25 To 50, Add	1.38	
For >50 To 150, Add	0.47	
03 37 13 00-0012 SF 5" Thick Gunitite (Dry Mix Shotcrete), Sprayed .....	17.98	
For Radius Or Irregular Surface, Add	2.82	
For Up To 25, Add	2.86	
For >25 To 50, Add	1.60	
For >50 To 150, Add	0.53	
03 37 13 00-0013 SF 6" Thick Gunitite (Dry Mix Shotcrete), Sprayed .....	20.74	
For Radius Or Irregular Surface, Add	3.05	
For Up To 25, Add	3.22	
For >25 To 50, Add	1.80	
For >50 To 150, Add	0.57	
03 37 13 00-0014 SF 8" Thick Gunitite (Dry Mix Shotcrete), Sprayed .....	26.63	
For Radius Or Irregular Surface, Add	3.66	
For Up To 25, Add	4.03	
For >25 To 50, Add	2.25	
For >50 To 150, Add	0.69	
03 37 13 00-0015 SF 10" Thick Gunitite (Dry Mix Shotcrete), Sprayed .....	32.15	
For Radius Or Irregular Surface, Add	4.11	
For Up To 25, Add	4.76	
For >25 To 50, Add	2.64	
For >50 To 150, Add	0.77	
03 37 13 00-0016 SF 12" Thick Gunitite (Dry Mix Shotcrete), Sprayed .....	37.34	
For Radius Or Irregular Surface, Add	4.44	
For Up To 25, Add	5.40	
For >25 To 50, Add	2.98	
For >50 To 150, Add	0.83	

03 39 Concrete Curing (03 30)

**03 39 13 Water Concrete Curing** (03 39)

03 39 13 00-0001 Water Concrete Curing (03 39 13)

03 39 13 00-0002 GAL Water Based Curing, Sealing, Hardening And Dustproofing Compound .....	37.79
Note: Coverage rates: rough finish = 300 SF/GAL, broom finish = 300 to 400 SF/GAL, steel troweled = 500 to 600 SF/GAL, and vertical surface = 400 - 500 SF/GAL.	

**03 39 23 Membrane Concrete Curing** (03 39)

**03 39 23 23 Sheet Membrane Concrete Curing** (03 39 23)

03 39 23 23-0001 Concrete Curing Materials And Compounds (03 39 23 23)

03 39 23 23-0002 CSF 7.5 Oz Burlap, Concrete Curing Blanket .....	32.27
03 39 23 23-0003 CSF 9 Oz Burlap, Concrete Curing Blanket .....	30.39
03 39 23 23-0004 CSF 12 Oz Burlap, Concrete Curing Blanket .....	35.19
03 39 23 23-0005 CSF 2 Ply Reinforced, Concrete Curing Waterproof Paper .....	32.85
03 39 23 23-0006 CSF Curing Paper .....	11.51

**03 39 33 Concrete Surface Treatments** (03 39)

03 39 33 00-0001 Concrete Surface Treatments (03 39 33)

03 39 33 00-0002 SF Acrylic Latex Bonding Agent .....	0.40
03 39 33 00-0003 SF Epoxy Resin Bonding Agent .....	2.08
03 39 33 00-0004 SF Clear Acrylic Sealer, Hardener And Dustproofing .....	0.25
03 39 33 00-0005 SF Colored Acrylic Sealer, Hardener And Dustproofing .....	0.26

03 39 33 00-0006 Shake On Floor Hardeners (03 39 33)

03 39 33 00-0007 SF 0.3 LB/SF, Metallic, Shake On Floor Hardener .....	1.04
03 39 33 00-0008 SF 0.65 LB/SF, Metallic, Shake On Floor Hardener .....	1.65
03 39 33 00-0009 SF 0.3 LB/SF, Non Metallic, Shake On Floor Hardener .....	0.98
03 39 33 00-0010 SF 0.65 LB/SF, Non Metallic, Shake On Floor Hardener .....	1.22

03 50 Cast Decks And Underlayment (03)

03 51 Cast Roof Decks (03 50)

**03 51 13 Cementitious Wood Fiber Decks** (03 51)

03 51 13 00-0001 Cement Fiber Tongue And Groove Planks (03 51 13)

03 51 13 00-0002 SF 1" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	3.55
03 51 13 00-0003 SF 1-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	3.70

**03 Concrete****03 50 Cast Decks And Underlayment****03 51 Cast Roof Decks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
03 51 13 00-0004 SF 2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	3.88	
03 51 13 00-0005 SF 2-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	4.42	
03 51 13 00-0006 SF 3" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	5.01	
03 51 13 00-0007 SF 3-1/2" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	5.68	
03 51 13 00-0008 SF 4" Thick Cementitious Fiber Tongue And Groove Planks, Cement Wood Fiber System .....	6.51	
<b>03 51 13 00-0009 Bulb Tees, Sub-Purlins And Grout (03 51 13)</b>		
03 51 13 00-0010 SF 6' Span Bulb Tee, Sub-Purlins, Grout, Cement Wood Fiber System .....	1.38	
03 51 13 00-0011 SF 8' Span Bulb Tee, Sub-Purlins, Grout, Cement Wood Fiber System .....	2.19	
<b>03 51 16 Gypsum Concrete Roof Decks (03 51)</b>		
<b>03 51 16 00-0001 Class A Gypsum Fill Concrete Deck (03 51 16)</b>		
03 51 16 00-0002 SF 2" Thick Precast Gypsum Fill Concrete Deck, Class A .....	7.03	0.44
03 51 16 00-0003 SF 2-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A .....	8.69	0.52
03 51 16 00-0004 SF 3" Thick Precast Gypsum Fill Concrete Deck, Class A .....	10.37	0.59
03 51 16 00-0005 SF 3-1/2" Thick Precast Gypsum Fill Concrete Deck, Class A .....	12.06	0.67
03 51 16 00-0006 SF 4" Thick Precast Gypsum Fill Concrete Deck, Class A .....	13.77	0.74
<b>03 51 16 00-0007 Formboard For Lightweight Deck (03 51 16)</b>		
03 51 16 00-0008 SF Gypsum Deck Formboard, 1/2" Drywall For Lightweight Deck .....	1.73	
03 51 16 00-0009 SF Gypsum Deck Formboard, 1" Mineral Fiber Board For Lightweight Deck .....	2.24	
03 51 16 00-0010 SF Gypsum Deck Formboard, 1-1/2" Mineral Fiber Board For Lightweight Deck .....	4.37	
03 51 16 00-0011 SF Gypsum Deck Formboard, 1" Cementitious Fiber Board For Lightweight Deck .....	1.90	0.52
03 51 16 00-0012 SF Gypsum Deck Formboard, 1-1/2" Cementitious Fiber Board For Lightweight Deck .....	2.28	0.52
03 51 16 00-0013 SF Gypsum Deck Formboard, 1" Glass Fiber Board For Lightweight Deck .....	2.48	0.52
03 51 16 00-0014 SF Gypsum Deck Formboard, 1-1/2" Glass Fiber Board For Lightweight Deck .....	3.03	0.52
<b>03 51 16 00-0015 Board Deck Supports For Formboard (03 51 16)</b>		
03 51 16 00-0016 SF Gypsum Deck Formboard Supports, 5' Bulb Tee 40 LB/SF, Span .....	0.68	0.18
03 51 16 00-0017 SF Gypsum Deck Formboard Supports, 8' Bulb Tee 40 LB/SF Span .....	1.15	0.26
<b>03 51 16 00-0018 Gypsum Plank (03 51 16)</b>		
03 51 16 00-0019 SF Insulating Concrete Gypsum Plank, 2" Thick Roof Deck .....	3.63	
03 51 16 00-0020 SF Insulating Concrete Gypsum Plank, 3" Thick Roof Deck .....	4.86	
<b>03 52 Lightweight Concrete Roof Insulation (03 50)</b>		
<b>03 52 16 Lightweight Insulating Concrete (03 52)</b>		
Note: Add costs for forming to all tasks below. See CSI section 03 11 00 00-0000 for forming.		
<b>03 52 16 00-0001 Lightweight Insulating Concrete Plank Roof Deck (03 52 16)</b>		
03 52 16 00-0002 SF 2" Thick, Lightweight Insulating Concrete Plank Roof Deck .....	5.92	
For >4 To 12 Pitch, Add	0.33	
For >6 To 12 Pitch, Add	2.00	
03 52 16 00-0003 SF 2-1/2" Thick, Lightweight Insulating Concrete Plank Roof Deck .....	6.88	
For >4 To 12 Pitch, Add	0.36	
For >6 To 12 Pitch, Add	2.18	
03 52 16 00-0004 SF 3" Thick, Lightweight Insulating Concrete Plank Roof Deck .....	7.97	
For >4 To 12 Pitch, Add	0.39	
For >6 To 12 Pitch, Add	2.36	
03 52 16 00-0005 SF 3-1/2" Thick, Lightweight Insulating Concrete Plank Roof Deck .....	8.34	
For >4 To 12 Pitch, Add	0.43	
For >6 To 12 Pitch, Add	2.55	
03 52 16 00-0006 SF 4" Thick, Lightweight Insulating Concrete Plank Roof Deck .....	8.66	
For >4 To 12 Pitch, Add	0.45	
For >6 To 12 Pitch, Add	2.67	
<b>03 53 Concrete Topping (03 50)</b>		
Note: Installed over new or existing concrete.		
<b>03 53 00 00-0001 Integral Topping Including Hard Trowel Finish (03 53)</b>		
Note: Using 1:1:2 mix.		
03 53 00 00-0002 SF 3/16" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix .....	2.07	
03 53 00 00-0003 SF 1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix .....	2.36	
03 53 00 00-0004 SF 3/4" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix .....	2.78	
03 53 00 00-0005 SF 1" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix .....	3.33	
03 53 00 00-0006 SF 2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix .....	4.82	
03 53 00 00-0007 SF 2-1/2" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix .....	4.25	
03 53 00 00-0008 SF 3" Thick Hard Trowel Integral Concrete Topping, 1:1:2 Mix .....	4.80	
<b>03 53 00 00-0009 Granolithic Topping Laid After (03 53)</b>		
Note: Using 1:1:1-1/2 mix.		



<b>Concrete</b>	<b>03</b>	<b>03</b>
<b>Cast Decks And Underlayment</b>	<b>03 50</b>	
<b>Concrete Topping</b>	<b>03 53</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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03 53 00 00-0010	SF	1/2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix.....	3.48
03 53 00 00-0011	SF	1" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix.....	3.80
03 53 00 00-0012	SF	2" Thick Concrete Topping, Granolithic Laid After Finish, 1:1:1-1/2 Mix.....	4.87

**03 54 Cast Underlayment** (03 50)

Note: Includes primer. Excludes sandblasting existing smooth finished concrete surface (where necessary).

**03 54 16 Hydraulic Cement Underlayment** (03 54)

**03 54 16 00-0001 Self Leveling Cementitious Underlayment For Floors** (03 54 16)

Note: Includes primer.

03 54 16 00-0002	SF	1/8" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation.....	2.05
03 54 16 00-0003	SF	1/4" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation.....	3.23
03 54 16 00-0004	SF	1/2" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation.....	5.61
03 54 16 00-0005	SF	3/4" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation.....	7.98
03 54 16 00-0006	SF	1" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation.....	10.36
03 54 16 00-0007	SF	1-1/4" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation.....	13.52
03 54 16 00-0008	SF	1-1/2" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation.....	15.11
03 54 16 00-0009	SF	1-3/4" Thick Self Leveling Cementitious Underlayment For Floors Including Surface Preparation.....	19.87

**03 60 Grouting** (03)

**03 61 Cementitious Grouting** (03 60)

Note: 1 part cement to 3 parts sand by volume.

**03 61 16 Cementitious Flowable Grout** (03 61)

**03 61 16 00-0001 Cementitious Flowable Grout** (03 61 16)

03 61 16 00-0002	CY	Cementitious Flowable Grout.....	405.86
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**03 62 Non-Shrink Grouting** (03 60)

**03 62 13 Non-Metallic Non-Shrink Grouting** (03 62)

**03 62 13 00-0001 Fluid Type, Non-Metallic Non-Shrink Grouting For Bases** (03 62 13)

03 62 13 00-0002	SF	1" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases.....	22.32
03 62 13 00-0003	SF	2" Deep, Fluid Type, Non-Metallic Non-Shrink Grout For Bases.....	33.84

**03 62 13 00-0004 Non-Metallic Non-Shrink Grouting For Bases** (03 62 13)

03 62 13 00-0005	SF	1" Deep, Non-Metallic Non-Shrink Grout For Bases.....	34.55
03 62 13 00-0006	SF	2" Deep, Non-Metallic Non-Shrink Grout For Bases.....	56.37

**03 62 13 00-0007 Non-Metallic Non-Shrink Grouting For Joints** (03 62 13)

**03 62 13 00-0008 1/2" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints** (03 62 13 00-0007)

03 62 13 00-0009	LF	4" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	1.73
03 62 13 00-0010	LF	6" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	2.28
03 62 13 00-0011	LF	8" Deep x 1/2" Thick, Non-Metallic Non-Shrink Grout For Joints.....	3.02

**03 62 13 00-0012 1" Joint Thickness, Non-Metallic Non-Shrink Grout For Joints** (03 62 13 00-0007)

03 62 13 00-0013	LF	4" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints.....	2.60
03 62 13 00-0014	LF	6" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints.....	3.50
03 62 13 00-0015	LF	8" Deep x 1" Thick, Non-Metallic Non-Shrink Grout For Joints.....	4.64

**03 62 16 Metallic Non-Shrink Grouting** (03 62)

**03 62 16 00-0001 Metallic Non-Shrink Grouting For Bases** (03 62 16)

03 62 16 00-0002	SF	1" Deep, Metallic Non-Shrink Grout For Bases.....	28.50
03 62 16 00-0003	SF	2" Deep, Metallic Non-Shrink Grout For Bases.....	44.65

**03 62 16 00-0004 Metallic Non-Shrink Grouting For Joints** (03 62 16)

**03 62 16 00-0005 1/2" Joint Thickness, Metallic Non-Shrink Grout For Joints** (03 62 16 00-0004)

03 62 16 00-0006	LF	4" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	1.35
03 62 16 00-0007	LF	6" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	1.70
03 62 16 00-0008	LF	8" Deep x 1/2" Thick, Metallic Non-Shrink Grout For Joints.....	2.28

**03 62 16 00-0009 1" Joint Thickness, Metallic Non-Shrink Grout For Joints** (03 62 16 00-0004)

03 62 16 00-0010	LF	4" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	1.86
03 62 16 00-0011	LF	6" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	2.36
03 62 16 00-0012	LF	8" Deep x 1" Thick, Metallic Non-Shrink Grout For Joints.....	3.14

<b>03</b>	<b>03 Concrete</b>
	<b>03 60 Grouting</b>
	<b>03 64 Injection Grouting</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**03 64 Injection Grouting** (03 60)

Note: By volume of void filled. Includes injection ports.

**03 64 23 Epoxy Injection Grouting** (03 64)

**03 64 23 00-0001 Pressure Injected Epoxy Grout** (03 64 23)

03 64 23 00-0002 CF Pressure Injected Epoxy Grout ..... 1,051.60  
*For >4, Deduct* -111.46

**03 64 26 Cementitious Injection Grouting** (03 64)

**03 64 26 00-0001 Pressure Injected Cementitious Grout** (03 64 26)

03 64 26 00-0002 CF Pressure Injected Cementitious Grout ..... 135.13  
*For >4, Deduct* -32.23

**03 80 Concrete Cutting And Boring** (03)

**03 81 Concrete Cutting** (03 80)

**03 81 13 Flat Concrete Sawing** (03 81)

See CSI section 02 41 19 13-0001 for saw cutting.

**03 81 16 Track Mounted Concrete Wall Sawing** (03 81)

See CSI section 02 41 19 13-0001 for saw cutting.

**03 82 Concrete Boring** (03 80)

**03 82 13 Concrete Core Drilling** (03 82)

See CSI section 02 41 19 13-0024 for core drilling.

**END OF SECTION 03**





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 05 Metals

### 05 05 Common Work Results For Metals <sup>(05)</sup>

#### 05 05 19 Post-Installed Concrete Anchors <sup>(05 05)</sup>

See CSI section 03 15 19 00-0000 for cast-in concrete anchors.

#### 05 05 19 00-0001 Concrete And Masonry Anchors <sup>(05 05 19)</sup>

#### 05 05 19 00-0002 Expansion Anchors <sup>(05 05 19 00-0001)</sup>

Note: Includes drilling.

#### 05 05 19 00-0003 Wedge Expansion Bolt Anchors <sup>(05 05 19 00-0002)</sup>

#### 05 05 19 00-0004 Zinc Plated Steel, Wedge Anchor Expansion Bolt <sup>(05 05 19 00-0003)</sup>

Note: Includes nut and washer.

05 05 19 00-0005	EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	10.47	
	For >10 To 50, Deduct	-0.50	
	For >50 To 100, Deduct	-1.01	
	For >100, Deduct	-2.02	
05 05 19 00-0006	EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	10.54	
	For >10 To 50, Deduct	-0.50	
	For >50 To 100, Deduct	-1.01	
	For >100, Deduct	-2.03	
05 05 19 00-0007	EA 1/4" Diameter x 3-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	10.86	
	For >10 To 50, Deduct	-0.51	
	For >50 To 100, Deduct	-1.04	
	For >100, Deduct	-2.08	
05 05 19 00-0008	EA 3/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	12.82	
	For >10 To 50, Deduct	-0.61	
	For >50 To 100, Deduct	-1.23	
	For >100, Deduct	-2.46	
05 05 19 00-0009	EA 3/8" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	12.88	
	For >10 To 50, Deduct	-0.61	
	For >50 To 100, Deduct	-1.23	
	For >100, Deduct	-2.47	
05 05 19 00-0010	EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	12.90	
	For >10 To 50, Deduct	-0.61	
	For >50 To 100, Deduct	-1.23	
	For >100, Deduct	-2.47	
05 05 19 00-0011	EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	13.12	
	For >10 To 50, Deduct	-0.61	
	For >50 To 100, Deduct	-1.24	
	For >100, Deduct	-2.48	
05 05 19 00-0012	EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	18.50	
	For >10 To 50, Deduct	-0.86	
	For >50 To 100, Deduct	-1.76	
	For >100, Deduct	-3.52	
05 05 19 00-0013	EA 1/2" Diameter x 3-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	18.54	
	For >10 To 50, Deduct	-0.86	
	For >50 To 100, Deduct	-1.76	
	For >100, Deduct	-3.52	
05 05 19 00-0014	EA 1/2" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	18.63	
	For >10 To 50, Deduct	-0.86	
	For >50 To 100, Deduct	-1.76	
	For >100, Deduct	-3.52	
05 05 19 00-0015	EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	18.88	
	For >10 To 50, Deduct	-0.86	
	For >50 To 100, Deduct	-1.77	
	For >100, Deduct	-3.54	
05 05 19 00-0016	EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	19.21	
	For >10 To 50, Deduct	-0.86	
	For >50 To 100, Deduct	-1.78	
	For >100, Deduct	-3.55	
05 05 19 00-0017	EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	23.79	
	For >10 To 50, Deduct	-1.07	
	For >50 To 100, Deduct	-2.19	
	For >100, Deduct	-4.39	
05 05 19 00-0018	EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	23.86	
	For >10 To 50, Deduct	-1.07	
	For >50 To 100, Deduct	-2.20	
	For >100, Deduct	-4.39	
05 05 19 00-0019	EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	24.01	
	For >10 To 50, Deduct	-1.07	
	For >50 To 100, Deduct	-2.20	
	For >100, Deduct	-4.40	
05 05 19 00-0020	EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	24.31	
	For >10 To 50, Deduct	-1.07	
	For >50 To 100, Deduct	-2.21	
	For >100, Deduct	-4.42	
05 05 19 00-0021	EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt .....	24.60	
	For >10 To 50, Deduct	-1.07	
	For >50 To 100, Deduct	-2.21	
	For >100, Deduct	-4.43	

**05 Metals****05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0022	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	26.94	
			<i>For &gt;10 To 50, Deduct</i>	-1.07	
			<i>For &gt;50 To 100, Deduct</i>	-2.27	
			<i>For &gt;100, Deduct</i>	-4.55	
05 05 19 00-0023	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	28.95	
			<i>For &gt;10 To 50, Deduct</i>	-1.07	
			<i>For &gt;50 To 100, Deduct</i>	-2.32	
			<i>For &gt;100, Deduct</i>	-4.65	
05 05 19 00-0024	EA		3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	28.61	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-2.62	
			<i>For &gt;100, Deduct</i>	-5.24	
05 05 19 00-0025	EA		3/4" Diameter x 4-3/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	28.68	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-2.62	
			<i>For &gt;100, Deduct</i>	-5.24	
05 05 19 00-0026	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	29.04	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-2.63	
			<i>For &gt;100, Deduct</i>	-5.26	
05 05 19 00-0027	EA		3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	29.47	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-2.64	
			<i>For &gt;100, Deduct</i>	-5.28	
05 05 19 00-0028	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	29.96	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-2.65	
			<i>For &gt;100, Deduct</i>	-5.30	
05 05 19 00-0029	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	31.84	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-2.70	
			<i>For &gt;100, Deduct</i>	-5.40	
05 05 19 00-0030	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	34.33	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-2.76	
			<i>For &gt;100, Deduct</i>	-5.52	
05 05 19 00-0031	EA		3/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	37.15	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-2.83	
			<i>For &gt;100, Deduct</i>	-5.66	
05 05 19 00-0032	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	36.82	
			<i>For &gt;10 To 50, Deduct</i>	-1.38	
			<i>For &gt;50 To 100, Deduct</i>	-2.99	
			<i>For &gt;100, Deduct</i>	-5.97	
05 05 19 00-0033	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	38.29	
			<i>For &gt;10 To 50, Deduct</i>	-1.38	
			<i>For &gt;50 To 100, Deduct</i>	-3.02	
			<i>For &gt;100, Deduct</i>	-6.05	
05 05 19 00-0034	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	40.26	
			<i>For &gt;10 To 50, Deduct</i>	-1.38	
			<i>For &gt;50 To 100, Deduct</i>	-3.07	
			<i>For &gt;100, Deduct</i>	-6.14	
05 05 19 00-0035	EA		1" Diameter x 6" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	45.96	
			<i>For &gt;10 To 50, Deduct</i>	-1.78	
			<i>For &gt;50 To 100, Deduct</i>	-3.82	
			<i>For &gt;100, Deduct</i>	-7.64	
05 05 19 00-0036	EA		1" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	48.74	
			<i>For &gt;10 To 50, Deduct</i>	-1.78	
			<i>For &gt;50 To 100, Deduct</i>	-3.89	
			<i>For &gt;100, Deduct</i>	-7.78	
05 05 19 00-0037	EA		1" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	51.50	
			<i>For &gt;10 To 50, Deduct</i>	-1.78	
			<i>For &gt;50 To 100, Deduct</i>	-3.96	
			<i>For &gt;100, Deduct</i>	-7.92	
05 05 19 00-0038	EA		1-1/4" Diameter x 9" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	59.67	
			<i>For &gt;10 To 50, Deduct</i>	-2.28	
			<i>For &gt;50 To 100, Deduct</i>	-4.91	
			<i>For &gt;100, Deduct</i>	-9.83	
05 05 19 00-0039	EA		1-1/4" Diameter x 12" Length, Zinc Plated Steel, Wedge Anchor Expansion Bolt.....	61.66	
			<i>For &gt;10 To 50, Deduct</i>	-2.28	
			<i>For &gt;50 To 100, Deduct</i>	-4.96	
			<i>For &gt;100, Deduct</i>	-9.93	
05 05 19 00-0040			<b>304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt</b> <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0041	EA		1/4" Diameter x 1-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	11.09	
			<i>For &gt;10 To 50, Deduct</i>	-0.50	
			<i>For &gt;50 To 100, Deduct</i>	-1.03	
			<i>For &gt;100, Deduct</i>	-2.05	
05 05 19 00-0042	EA		1/4" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	11.35	
			<i>For &gt;10 To 50, Deduct</i>	-0.50	
			<i>For &gt;50 To 100, Deduct</i>	-1.03	
			<i>For &gt;100, Deduct</i>	-2.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0043 EA 1/4" Diameter x 3-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	11.78	
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.06	
<i>For &gt;100, Deduct</i>	-2.13	
05 05 19 00-0044 EA 3/8" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.01	
<i>For &gt;10 To 50, Deduct</i>	-0.61	
<i>For &gt;50 To 100, Deduct</i>	-1.26	
<i>For &gt;100, Deduct</i>	-2.52	
05 05 19 00-0045 EA 3/8" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.23	
<i>For &gt;10 To 50, Deduct</i>	-0.61	
<i>For &gt;50 To 100, Deduct</i>	-1.27	
<i>For &gt;100, Deduct</i>	-2.53	
05 05 19 00-0046 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.39	
<i>For &gt;10 To 50, Deduct</i>	-0.61	
<i>For &gt;50 To 100, Deduct</i>	-1.27	
<i>For &gt;100, Deduct</i>	-2.54	
05 05 19 00-0047 EA 3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.59	
<i>For &gt;10 To 50, Deduct</i>	-0.61	
<i>For &gt;50 To 100, Deduct</i>	-1.30	
<i>For &gt;100, Deduct</i>	-2.60	
05 05 19 00-0048 EA 1/2" Diameter x 2-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.17	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.83	
<i>For &gt;100, Deduct</i>	-3.65	
05 05 19 00-0049 EA 1/2" Diameter x 3-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.58	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.84	
<i>For &gt;100, Deduct</i>	-3.67	
05 05 19 00-0050 EA 1/2" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	21.82	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.84	
<i>For &gt;100, Deduct</i>	-3.68	
05 05 19 00-0051 EA 1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.92	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.87	
<i>For &gt;100, Deduct</i>	-3.74	
05 05 19 00-0052 EA 1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	24.56	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.91	
<i>For &gt;100, Deduct</i>	-3.82	
05 05 19 00-0053 EA 5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	29.21	
<i>For &gt;10 To 50, Deduct</i>	-1.07	
<i>For &gt;50 To 100, Deduct</i>	-2.33	
<i>For &gt;100, Deduct</i>	-4.66	
05 05 19 00-0054 EA 5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	30.28	
<i>For &gt;10 To 50, Deduct</i>	-1.07	
<i>For &gt;50 To 100, Deduct</i>	-2.36	
<i>For &gt;100, Deduct</i>	-4.71	
05 05 19 00-0055 EA 5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	31.44	
<i>For &gt;10 To 50, Deduct</i>	-1.07	
<i>For &gt;50 To 100, Deduct</i>	-2.39	
<i>For &gt;100, Deduct</i>	-4.77	
05 05 19 00-0056 EA 5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	32.98	
<i>For &gt;10 To 50, Deduct</i>	-1.07	
<i>For &gt;50 To 100, Deduct</i>	-2.42	
<i>For &gt;100, Deduct</i>	-4.85	
05 05 19 00-0057 EA 5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	39.73	
<i>For &gt;10 To 50, Deduct</i>	-1.07	
<i>For &gt;50 To 100, Deduct</i>	-2.59	
<i>For &gt;100, Deduct</i>	-5.19	
05 05 19 00-0058 EA 3/4" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	34.84	
<i>For &gt;10 To 50, Deduct</i>	-1.27	
<i>For &gt;50 To 100, Deduct</i>	-2.77	
<i>For &gt;100, Deduct</i>	-5.55	
05 05 19 00-0059 EA 3/4" Diameter x 4-3/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	37.01	
<i>For &gt;10 To 50, Deduct</i>	-1.27	
<i>For &gt;50 To 100, Deduct</i>	-2.83	
<i>For &gt;100, Deduct</i>	-5.66	
05 05 19 00-0060 EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	38.87	
<i>For &gt;10 To 50, Deduct</i>	-1.27	
<i>For &gt;50 To 100, Deduct</i>	-2.87	
<i>For &gt;100, Deduct</i>	-5.75	
05 05 19 00-0061 EA 3/4" Diameter x 6-1/4" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	39.10	
<i>For &gt;10 To 50, Deduct</i>	-1.27	
<i>For &gt;50 To 100, Deduct</i>	-2.88	
<i>For &gt;100, Deduct</i>	-5.76	
05 05 19 00-0062 EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	40.84	
<i>For &gt;10 To 50, Deduct</i>	-1.27	
<i>For &gt;50 To 100, Deduct</i>	-2.92	
<i>For &gt;100, Deduct</i>	-5.85	
05 05 19 00-0063 EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	45.37	
<i>For &gt;10 To 50, Deduct</i>	-1.27	
<i>For &gt;50 To 100, Deduct</i>	-3.04	
<i>For &gt;100, Deduct</i>	-6.08	

**05 Metals****05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0064	EA		3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	51.75	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-3.20	
			<i>For &gt;100, Deduct</i>	-6.39	
05 05 19 00-0065	EA		7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	52.73	
			<i>For &gt;10 To 50, Deduct</i>	-1.38	
			<i>For &gt;50 To 100, Deduct</i>	-3.38	
			<i>For &gt;100, Deduct</i>	-6.77	
05 05 19 00-0066	EA		1" Diameter x 6" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	75.15	
			<i>For &gt;10 To 50, Deduct</i>	-1.78	
			<i>For &gt;50 To 100, Deduct</i>	-4.55	
			<i>For &gt;100, Deduct</i>	-9.10	
05 05 19 00-0067	EA		1" Diameter x 9" Length, 304/18-8 Stainless Steel, Wedge Anchor Expansion Bolt.....	84.58	
			<i>For &gt;10 To 50, Deduct</i>	-1.78	
			<i>For &gt;50 To 100, Deduct</i>	-4.79	
			<i>For &gt;100, Deduct</i>	-9.58	
<b>05 05 19 00-0068</b>			<b>316 Stainless Steel, Wedge Anchor Expansion Bolt</b> <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0069	EA		1/4" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	11.32	
			<i>For &gt;10 To 50, Deduct</i>	-0.50	
			<i>For &gt;50 To 100, Deduct</i>	-1.03	
			<i>For &gt;100, Deduct</i>	-2.06	
05 05 19 00-0070	EA		1/4" Diameter x 3-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	11.88	
			<i>For &gt;10 To 50, Deduct</i>	-0.51	
			<i>For &gt;50 To 100, Deduct</i>	-1.07	
			<i>For &gt;100, Deduct</i>	-2.13	
05 05 19 00-0071	EA		3/8" Diameter x 2-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	14.72	
			<i>For &gt;10 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-1.28	
			<i>For &gt;100, Deduct</i>	-2.56	
05 05 19 00-0072	EA		3/8" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.10	
			<i>For &gt;10 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-1.29	
			<i>For &gt;100, Deduct</i>	-2.58	
05 05 19 00-0073	EA		3/8" Diameter x 3" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	15.20	
			<i>For &gt;10 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-1.29	
			<i>For &gt;100, Deduct</i>	-2.58	
05 05 19 00-0074	EA		3/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	17.01	
			<i>For &gt;10 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-1.34	
			<i>For &gt;100, Deduct</i>	-2.67	
05 05 19 00-0075	EA		1/2" Diameter x 2-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	22.90	
			<i>For &gt;10 To 50, Deduct</i>	-0.86	
			<i>For &gt;50 To 100, Deduct</i>	-1.87	
			<i>For &gt;100, Deduct</i>	-3.74	
05 05 19 00-0076	EA		1/2" Diameter x 3-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	23.95	
			<i>For &gt;10 To 50, Deduct</i>	-0.86	
			<i>For &gt;50 To 100, Deduct</i>	-1.89	
			<i>For &gt;100, Deduct</i>	-3.79	
05 05 19 00-0077	EA		1/2" Diameter x 4-1/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	25.86	
			<i>For &gt;10 To 50, Deduct</i>	-0.86	
			<i>For &gt;50 To 100, Deduct</i>	-1.94	
			<i>For &gt;100, Deduct</i>	-3.89	
05 05 19 00-0078	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	26.34	
			<i>For &gt;10 To 50, Deduct</i>	-0.86	
			<i>For &gt;50 To 100, Deduct</i>	-1.95	
			<i>For &gt;100, Deduct</i>	-3.91	
05 05 19 00-0079	EA		5/8" Diameter x 5" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	35.06	
			<i>For &gt;10 To 50, Deduct</i>	-1.07	
			<i>For &gt;50 To 100, Deduct</i>	-2.48	
			<i>For &gt;100, Deduct</i>	-4.95	
05 05 19 00-0080	EA		5/8" Diameter x 7" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	35.64	
			<i>For &gt;10 To 50, Deduct</i>	-1.07	
			<i>For &gt;50 To 100, Deduct</i>	-2.49	
			<i>For &gt;100, Deduct</i>	-4.98	
05 05 19 00-0081	EA		3/4" Diameter x 4-3/4" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	43.02	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-2.98	
			<i>For &gt;100, Deduct</i>	-5.96	
05 05 19 00-0082	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Wedge Anchor Expansion Bolt.....	45.41	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-3.04	
			<i>For &gt;100, Deduct</i>	-6.08	
<b>05 05 19 00-0083</b>			<b>Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt</b> <small>(05 05 19 00-0003)</small>		
			Note: Includes nut and washer.		
05 05 19 00-0084	EA		1/2" Diameter x 2-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	21.77	
			<i>For &gt;10 To 50, Deduct</i>	-0.86	
			<i>For &gt;50 To 100, Deduct</i>	-1.84	
			<i>For &gt;100, Deduct</i>	-3.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0085 EA 1/2" Diameter x 4-1/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	22.96	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-1.87	
For >100, Deduct	-3.74	
05 05 19 00-0086 EA 1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	24.14	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-1.90	
For >100, Deduct	-3.80	
05 05 19 00-0087 EA 1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	24.73	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-1.91	
For >100, Deduct	-3.83	
05 05 19 00-0088 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	29.85	
For >10 To 50, Deduct	-1.07	
For >50 To 100, Deduct	-2.35	
For >100, Deduct	-4.69	
05 05 19 00-0089 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	28.43	
For >10 To 50, Deduct	-1.07	
For >50 To 100, Deduct	-2.31	
For >100, Deduct	-4.62	
05 05 19 00-0090 EA 3/4" Diameter x 4-3/4" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	38.63	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-2.87	
For >100, Deduct	-5.74	
05 05 19 00-0091 EA 3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	39.93	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-2.90	
For >100, Deduct	-5.80	
05 05 19 00-0092 EA 3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	46.34	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-3.06	
For >100, Deduct	-6.12	
05 05 19 00-0093 EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	49.28	
For >10 To 50, Deduct	-1.78	
For >50 To 100, Deduct	-3.91	
For >100, Deduct	-7.81	
05 05 19 00-0094 EA 1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	52.96	
For >10 To 50, Deduct	-1.78	
For >50 To 100, Deduct	-4.00	
For >100, Deduct	-7.99	
05 05 19 00-0095 EA 1" Diameter x 12" Length, Hot Dipped Galvanized Steel, Wedge Anchor Expansion Bolt.....	56.61	
For >10 To 50, Deduct	-1.78	
For >50 To 100, Deduct	-4.09	
For >100, Deduct	-8.18	
<b>05 05 19 00-0096 Concrete Sleeve Anchors</b> <small>(05 05 19 00-0002)</small>		
<b>05 05 19 00-0097 Zinc Plated Steel, Concrete Sleeve Anchors</b> <small>(05 05 19 00-0086)</small>		
Note: Includes nut and washer.		
05 05 19 00-0098 EA 1/4" Diameter x 5/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	10.56	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.03	
For >100, Deduct	-2.06	
05 05 19 00-0099 EA 1/4" Diameter x 1-3/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	10.66	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.03	
For >100, Deduct	-2.06	
05 05 19 00-0100 EA 1/4" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	10.80	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.04	
For >100, Deduct	-2.07	
05 05 19 00-0101 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	11.12	
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.08	
For >100, Deduct	-2.16	
05 05 19 00-0102 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	11.22	
For >10 To 50, Deduct	-0.54	
For >50 To 100, Deduct	-1.08	
For >100, Deduct	-2.17	
05 05 19 00-0103 EA 3/8" Diameter x 1-7/8" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	12.60	
For >10 To 50, Deduct	-0.61	
For >50 To 100, Deduct	-1.23	
For >100, Deduct	-2.45	
05 05 19 00-0104 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	12.78	
For >10 To 50, Deduct	-0.61	
For >50 To 100, Deduct	-1.23	
For >100, Deduct	-2.46	
05 05 19 00-0105 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	12.95	
For >10 To 50, Deduct	-0.61	
For >50 To 100, Deduct	-1.23	
For >100, Deduct	-2.47	
05 05 19 00-0106 EA 1/2" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	18.09	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-1.75	
For >100, Deduct	-3.49	

**05 Metals****05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0107 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	18.32	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-1.75	
For >100, Deduct	-3.51	
05 05 19 00-0108 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	18.51	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-1.76	
For >100, Deduct	-3.51	
05 05 19 00-0109 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	18.75	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-1.76	
For >100, Deduct	-3.53	
05 05 19 00-0110 EA 5/8" Diameter x 2-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	22.61	
For >10 To 50, Deduct	-1.07	
For >50 To 100, Deduct	-2.16	
For >100, Deduct	-4.33	
05 05 19 00-0111 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	22.95	
For >10 To 50, Deduct	-1.07	
For >50 To 100, Deduct	-2.17	
For >100, Deduct	-4.35	
05 05 19 00-0112 EA 5/8" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	23.21	
For >10 To 50, Deduct	-1.07	
For >50 To 100, Deduct	-2.18	
For >100, Deduct	-4.36	
05 05 19 00-0113 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	23.95	
For >10 To 50, Deduct	-1.07	
For >50 To 100, Deduct	-2.20	
For >100, Deduct	-4.40	
05 05 19 00-0114 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	27.52	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-2.59	
For >100, Deduct	-5.18	
05 05 19 00-0115 EA 3/4" Diameter x 4-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	28.16	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-2.61	
For >100, Deduct	-5.21	
05 05 19 00-0116 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	28.73	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-2.62	
For >100, Deduct	-5.24	
05 05 19 00-0117 EA 3/4" Diameter x 6-1/4" Length, Zinc Plated Steel, Concrete Sleeve Anchor .....	29.64	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-2.64	
For >100, Deduct	-5.29	
<b>05 05 19 00-0118 304/18-8 Stainless Steel, Concrete Sleeve Anchors (05 05 19 00-0096)</b>		
Note: Includes nut and washer.		
05 05 19 00-0119 EA 1/4" Diameter x 1-3/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor .....	11.58	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.06	
For >100, Deduct	-2.11	
05 05 19 00-0120 EA 3/8" Diameter x 1-7/8" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor .....	14.70	
For >10 To 50, Deduct	-0.61	
For >50 To 100, Deduct	-1.28	
For >100, Deduct	-2.56	
05 05 19 00-0121 EA 3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor .....	15.72	
For >10 To 50, Deduct	-0.61	
For >50 To 100, Deduct	-1.30	
For >100, Deduct	-2.61	
05 05 19 00-0122 EA 1/2" Diameter x 2-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor .....	21.61	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-1.83	
For >100, Deduct	-3.67	
05 05 19 00-0123 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor .....	23.44	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-1.88	
For >100, Deduct	-3.76	
05 05 19 00-0124 EA 5/8" Diameter x 4-1/4" Length, 304/18-8 Stainless Steel, Concrete Sleeve Anchor .....	31.26	
For >10 To 50, Deduct	-1.07	
For >50 To 100, Deduct	-2.38	
For >100, Deduct	-4.76	
<b>05 05 19 00-0125 Concrete Strike Anchors (05 05 19 00-0002)</b>		
Note: Includes nut and washer.		
05 05 19 00-0126 EA 1/4" Diameter x 1-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	11.08	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.04	
For >100, Deduct	-2.09	
05 05 19 00-0127 EA 1/4" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor .....	11.26	
For >10 To 50, Deduct	-0.51	
For >50 To 100, Deduct	-1.05	
For >100, Deduct	-2.09	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0128 EA 5/16" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	11.76	
<i>For &gt;10 To 50, Deduct</i>	-0.54	
<i>For &gt;50 To 100, Deduct</i>	-1.10	
<i>For &gt;100, Deduct</i>	-2.20	
05 05 19 00-0129 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	12.50	
<i>For &gt;10 To 50, Deduct</i>	-0.54	
<i>For &gt;50 To 100, Deduct</i>	-1.12	
<i>For &gt;100, Deduct</i>	-2.23	
05 05 19 00-0130 EA 3/8" Diameter x 2-3/8" Length, Zinc Plated Steel, Concrete Strike Anchor .....	13.40	
<i>For &gt;10 To 50, Deduct</i>	-0.61	
<i>For &gt;50 To 100, Deduct</i>	-1.25	
<i>For &gt;100, Deduct</i>	-2.49	
05 05 19 00-0131 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor .....	13.96	
<i>For &gt;10 To 50, Deduct</i>	-0.61	
<i>For &gt;50 To 100, Deduct</i>	-1.26	
<i>For &gt;100, Deduct</i>	-2.52	
05 05 19 00-0132 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor .....	14.39	
<i>For &gt;10 To 50, Deduct</i>	-0.61	
<i>For &gt;50 To 100, Deduct</i>	-1.27	
<i>For &gt;100, Deduct</i>	-2.54	
05 05 19 00-0133 EA 1/2" Diameter x 2-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	19.47	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.78	
<i>For &gt;100, Deduct</i>	-3.56	
05 05 19 00-0134 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Concrete Strike Anchor .....	19.81	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.79	
<i>For &gt;100, Deduct</i>	-3.58	
05 05 19 00-0135 EA 1/2" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	20.78	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.81	
<i>For &gt;100, Deduct</i>	-3.63	
05 05 19 00-0136 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor .....	22.05	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.85	
<i>For &gt;100, Deduct</i>	-3.69	
05 05 19 00-0137 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	25.54	
<i>For &gt;10 To 50, Deduct</i>	-1.07	
<i>For &gt;50 To 100, Deduct</i>	-2.24	
<i>For &gt;100, Deduct</i>	-4.48	
05 05 19 00-0138 EA 5/8" Diameter x 4-3/4" Length, Zinc Plated Steel, Concrete Strike Anchor .....	26.71	
<i>For &gt;10 To 50, Deduct</i>	-1.07	
<i>For &gt;50 To 100, Deduct</i>	-2.27	
<i>For &gt;100, Deduct</i>	-4.53	
05 05 19 00-0139 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor .....	27.74	
<i>For &gt;10 To 50, Deduct</i>	-1.07	
<i>For &gt;50 To 100, Deduct</i>	-2.29	
<i>For &gt;100, Deduct</i>	-4.59	
05 05 19 00-0140 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Concrete Strike Anchor .....	32.39	
<i>For &gt;10 To 50, Deduct</i>	-1.27	
<i>For &gt;50 To 100, Deduct</i>	-2.71	
<i>For &gt;100, Deduct</i>	-5.43	
05 05 19 00-0141 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Concrete Strike Anchor .....	33.48	
<i>For &gt;10 To 50, Deduct</i>	-1.27	
<i>For &gt;50 To 100, Deduct</i>	-2.74	
<i>For &gt;100, Deduct</i>	-5.48	
05 05 19 00-0142 Multi-Set Drop-In Anchors <small>(05 05 19 00-0002)</small>		
05 05 19 00-0143 Zinc Plated Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		
05 05 19 00-0144 EA 1/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....	14.67	
<i>For &gt;10 To 50, Deduct</i>	-0.71	
<i>For &gt;50 To 100, Deduct</i>	-1.43	
<i>For &gt;100, Deduct</i>	-2.87	
05 05 19 00-0145 EA 3/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....	17.94	
<i>For &gt;10 To 50, Deduct</i>	-0.87	
<i>For &gt;50 To 100, Deduct</i>	-1.75	
<i>For &gt;100, Deduct</i>	-3.50	
05 05 19 00-0146 EA 1/2" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....	21.73	
<i>For &gt;10 To 50, Deduct</i>	-1.02	
<i>For &gt;50 To 100, Deduct</i>	-2.08	
<i>For &gt;100, Deduct</i>	-4.15	
05 05 19 00-0147 EA 5/8" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....	24.49	
<i>For &gt;10 To 50, Deduct</i>	-1.12	
<i>For &gt;50 To 100, Deduct</i>	-2.30	
<i>For &gt;100, Deduct</i>	-4.59	
05 05 19 00-0148 EA 3/4" Bolt Diameter, Zinc Plated Steel, Multi-Set Drop-In Anchor .....	29.06	
<i>For &gt;10 To 50, Deduct</i>	-1.28	
<i>For &gt;50 To 100, Deduct</i>	-2.64	
<i>For &gt;100, Deduct</i>	-5.28	
05 05 19 00-0149 304/18-8 Stainless Steel, Multi-Set Drop-In Anchors <small>(05 05 19 00-0142)</small>		
Note: Excludes bolt, nut and washer.		

**05 Metals****05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05	19 00-0150	EA	1/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	16.78	
			<i>For &gt;10 To 50, Deduct</i>	-0.71	
			<i>For &gt;50 To 100, Deduct</i>	-1.49	
			<i>For &gt;100, Deduct</i>	-2.97	
05 05	19 00-0151	EA	3/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	21.93	
			<i>For &gt;10 To 50, Deduct</i>	-0.87	
			<i>For &gt;50 To 100, Deduct</i>	-1.85	
			<i>For &gt;100, Deduct</i>	-3.70	
05 05	19 00-0152	EA	1/2" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	26.97	
			<i>For &gt;10 To 50, Deduct</i>	-1.02	
			<i>For &gt;50 To 100, Deduct</i>	-2.21	
			<i>For &gt;100, Deduct</i>	-4.41	
05 05	19 00-0153	EA	5/8" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	32.93	
			<i>For &gt;10 To 50, Deduct</i>	-1.12	
			<i>For &gt;50 To 100, Deduct</i>	-2.51	
			<i>For &gt;100, Deduct</i>	-5.01	
05 05	19 00-0154	EA	3/4" Bolt Diameter, 304/18-8 Stainless Steel, Multi-Set Drop-In Anchor.....	43.57	
			<i>For &gt;10 To 50, Deduct</i>	-1.28	
			<i>For &gt;50 To 100, Deduct</i>	-3.00	
			<i>For &gt;100, Deduct</i>	-6.01	
<b>05 05</b>	<b>19 00-0155</b>		<b>Single Bolt Expansion Anchors (05 05 19 00-0002)</b>		
			Note: Excludes bolt, nut and washer.		
05 05	19 00-0156	EA	1/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	10.72	
			<i>For &gt;10 To 50, Deduct</i>	-0.51	
			<i>For &gt;50 To 100, Deduct</i>	-1.03	
			<i>For &gt;100, Deduct</i>	-2.07	
05 05	19 00-0157	EA	5/16" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	11.41	
			<i>For &gt;10 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.09	
			<i>For &gt;100, Deduct</i>	-2.18	
05 05	19 00-0158	EA	3/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	12.91	
			<i>For &gt;10 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-1.23	
			<i>For &gt;100, Deduct</i>	-2.47	
05 05	19 00-0159	EA	1/2" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	18.75	
			<i>For &gt;10 To 50, Deduct</i>	-0.86	
			<i>For &gt;50 To 100, Deduct</i>	-1.76	
			<i>For &gt;100, Deduct</i>	-3.53	
05 05	19 00-0160	EA	5/8" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	25.40	
			<i>For &gt;10 To 50, Deduct</i>	-1.07	
			<i>For &gt;50 To 100, Deduct</i>	-2.23	
			<i>For &gt;100, Deduct</i>	-4.47	
05 05	19 00-0161	EA	3/4" Bolt Diameter, Zinc Plated Steel, Single Bolt Expansion Anchor.....	30.56	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-2.67	
			<i>For &gt;100, Deduct</i>	-5.33	
<b>05 05</b>	<b>19 00-0162</b>		<b>Concrete Lag Shield Anchors (05 05 19 00-0002)</b>		
			Note: Excludes lag bolt and washer.		
05 05	19 00-0163	EA	1/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	11.01	
			<i>For &gt;10 To 50, Deduct</i>	-0.51	
			<i>For &gt;50 To 100, Deduct</i>	-1.04	
			<i>For &gt;100, Deduct</i>	-2.08	
05 05	19 00-0164	EA	5/16" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	13.10	
			<i>For &gt;10 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-1.24	
			<i>For &gt;100, Deduct</i>	-2.48	
05 05	19 00-0165	EA	3/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	13.74	
			<i>For &gt;10 To 50, Deduct</i>	-0.61	
			<i>For &gt;50 To 100, Deduct</i>	-1.25	
			<i>For &gt;100, Deduct</i>	-2.51	
05 05	19 00-0166	EA	1/2" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	19.36	
			<i>For &gt;10 To 50, Deduct</i>	-0.86	
			<i>For &gt;50 To 100, Deduct</i>	-1.78	
			<i>For &gt;100, Deduct</i>	-3.56	
05 05	19 00-0167	EA	5/8" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	24.70	
			<i>For &gt;10 To 50, Deduct</i>	-1.07	
			<i>For &gt;50 To 100, Deduct</i>	-2.22	
			<i>For &gt;100, Deduct</i>	-4.43	
05 05	19 00-0168	EA	3/4" Bolt Diameter, Zinc Plated Steel, Concrete Lag Shield Anchor.....	28.04	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-2.60	
			<i>For &gt;100, Deduct</i>	-5.21	
<b>05 05</b>	<b>19 00-0169</b>		<b>Chemical And Adhesive Anchors (05 05 19 00-0001)</b>		
<b>05 05</b>	<b>19 00-0170</b>		<b>Chemically Adhered Anchor Rods (05 05 19 00-0169)</b>		
			Note: Includes drilling hole, injected adhesive or pre-placed adhesive cartridge, nut and washer. Zinc coated carbon steel.		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0171 EA 1/4" x 1-9/16" Long Chemically Adhered Anchor Rod .....	13.29	
<i>For &gt;10 To 50, Deduct</i>	-0.56	
<i>For &gt;50 To 100, Deduct</i>	-1.17	
<i>For &gt;100, Deduct</i>	-2.35	
05 05 19 00-0172 EA 5/16" x 2-3/8" Long Chemically Adhered Anchor Rod .....	15.26	
<i>For &gt;10 To 50, Deduct</i>	-0.61	
<i>For &gt;50 To 100, Deduct</i>	-1.30	
<i>For &gt;100, Deduct</i>	-2.60	
05 05 19 00-0173 EA 3/8" x 2-3/4" Long Chemically Adhered Anchor Rod .....	18.97	
<i>For &gt;10 To 50, Deduct</i>	-0.77	
<i>For &gt;50 To 100, Deduct</i>	-1.62	
<i>For &gt;100, Deduct</i>	-3.25	
05 05 19 00-0174 EA 1/2" x 3-11/16" Long Chemically Adhered Anchor Rod .....	22.08	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.85	
<i>For &gt;100, Deduct</i>	-3.69	
05 05 19 00-0175 EA 1/2" x 5-1/2" Long Chemically Adhered Anchor Rod .....	23.18	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.87	
<i>For &gt;100, Deduct</i>	-3.75	
05 05 19 00-0176 EA 5/8" x 7" Long Chemically Adhered Anchor Rod.....	28.67	
<i>For &gt;10 To 50, Deduct</i>	-1.07	
<i>For &gt;50 To 100, Deduct</i>	-2.32	
<i>For &gt;100, Deduct</i>	-4.63	
05 05 19 00-0177 EA 3/4" x 9-1/2" Long Chemically Adhered Anchor Rod .....	36.76	
<i>For &gt;10 To 50, Deduct</i>	-1.27	
<i>For &gt;50 To 100, Deduct</i>	-2.82	
<i>For &gt;100, Deduct</i>	-5.64	
05 05 19 00-0178 EA 7/8" x 10" Long Chemically Adhered Anchor Rod.....	43.03	
<i>For &gt;10 To 50, Deduct</i>	-1.37	
<i>For &gt;50 To 100, Deduct</i>	-3.14	
<i>For &gt;100, Deduct</i>	-6.27	
05 05 19 00-0179 EA 1" x 11-3/4" Long Chemically Adhered Anchor Rod .....	58.40	
<i>For &gt;10 To 50, Deduct</i>	-1.78	
<i>For &gt;50 To 100, Deduct</i>	-4.13	
<i>For &gt;100, Deduct</i>	-8.26	
05 05 19 00-0180 EA 1-1/4" x 14" Long Chemically Adhered Anchor Rod .....	82.55	
<i>For &gt;10 To 50, Deduct</i>	-2.25	
<i>For &gt;50 To 100, Deduct</i>	-5.43	
<i>For &gt;100, Deduct</i>	-10.87	
<b>05 05 19 00-0181 Chemical Adhesives For Bolts, Dowels Or Threaded Rod</b> <small>(05 05 19 00-0169)</small>		
<i>Note: Injected or drop in cartridge. Sizes listed are for the diameter of the bolt, dowel or rod to be anchored. Includes drilling. Excludes bolt, dowel or rod.</i>		
05 05 19 00-0182 EA 1/4" Chemical Adhesive For Bolt Or Threaded Rod .....	11.49	
<i>For &gt;10 To 50, Deduct</i>	-0.56	
<i>For &gt;50 To 100, Deduct</i>	-1.13	
<i>For &gt;100, Deduct</i>	-2.26	
05 05 19 00-0183 EA 5/16" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	12.57	
<i>For &gt;10 To 50, Deduct</i>	-0.61	
<i>For &gt;50 To 100, Deduct</i>	-1.23	
<i>For &gt;100, Deduct</i>	-2.47	
05 05 19 00-0184 EA 3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	15.75	
<i>For &gt;10 To 50, Deduct</i>	-0.77	
<i>For &gt;50 To 100, Deduct</i>	-1.54	
<i>For &gt;100, Deduct</i>	-3.09	
05 05 19 00-0185 EA 1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	17.86	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.74	
<i>For &gt;100, Deduct</i>	-3.48	
05 05 19 00-0186 EA 5/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	22.78	
<i>For &gt;10 To 50, Deduct</i>	-1.07	
<i>For &gt;50 To 100, Deduct</i>	-2.17	
<i>For &gt;100, Deduct</i>	-4.34	
05 05 19 00-0187 EA 3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	27.93	
<i>For &gt;10 To 50, Deduct</i>	-1.27	
<i>For &gt;50 To 100, Deduct</i>	-2.60	
<i>For &gt;100, Deduct</i>	-5.20	
05 05 19 00-0188 EA 7/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	30.88	
<i>For &gt;10 To 50, Deduct</i>	-1.37	
<i>For &gt;50 To 100, Deduct</i>	-2.83	
<i>For &gt;100, Deduct</i>	-5.66	
05 05 19 00-0189 EA 1" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	40.74	
<i>For &gt;10 To 50, Deduct</i>	-1.78	
<i>For &gt;50 To 100, Deduct</i>	-3.69	
<i>For &gt;100, Deduct</i>	-7.38	
05 05 19 00-0190 EA 1-1/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod .....	46.58	
<i>For &gt;10 To 50, Deduct</i>	-2.01	
<i>For &gt;50 To 100, Deduct</i>	-4.19	
<i>For &gt;100, Deduct</i>	-8.37	
05 05 19 00-0191 EA 1-1/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod .....	53.11	
<i>For &gt;10 To 50, Deduct</i>	-2.25	
<i>For &gt;50 To 100, Deduct</i>	-4.70	
<i>For &gt;100, Deduct</i>	-9.40	

**05 Metals****05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 19 00-0192	EA 1-3/8" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	57.19	
	<i>For &gt;10 To 50, Deduct</i>	-2.35	
	<i>For &gt;50 To 100, Deduct</i>	-4.95	
	<i>For &gt;100, Deduct</i>	-9.91	
05 05 19 00-0193	EA 1-1/2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	62.64	
	<i>For &gt;10 To 50, Deduct</i>	-2.45	
	<i>For &gt;50 To 100, Deduct</i>	-5.24	
	<i>For &gt;100, Deduct</i>	-10.48	
05 05 19 00-0194	EA 1-3/4" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	73.54	
	<i>For &gt;10 To 50, Deduct</i>	-2.66	
	<i>For &gt;50 To 100, Deduct</i>	-5.82	
	<i>For &gt;100, Deduct</i>	-11.64	
05 05 19 00-0195	EA 2" Chemical Adhesive For Bolt, Dowel Or Threaded Rod.....	96.03	
	<i>For &gt;10 To 50, Deduct</i>	-2.76	
	<i>For &gt;50 To 100, Deduct</i>	-6.54	
	<i>For &gt;100, Deduct</i>	-13.07	
<b>05 05 19 00-0196</b>	<b>Grout Concrete Anchor Bolt Or Threaded Rod</b> (05 05 19 00-0169)		
05 05 19 00-0197	EA Grout Concrete Anchor Bolt or Threaded Rod.....	3.75	
	<i>For &gt;10 To 50, Deduct</i>	-0.18	
	<i>For &gt;50 To 100, Deduct</i>	-0.36	
	<i>For &gt;100, Deduct</i>	-0.73	
<b>05 05 19 00-0198</b>	<b>Other Concrete And Masonry Anchors</b> (05 05 19 00-0001)		
<b>05 05 19 00-0199</b>	<b>Tapcon Masonry Screws</b> (05 05 19 00-0198)		
	Note: Includes drilling. Countersunk or hex head.		
05 05 19 00-0200	EA 3/16" x 1-1/4" Tapcon Masonry Screw.....	10.41	
	<i>For &gt;10 To 50, Deduct</i>	-0.51	
	<i>For &gt;50 To 100, Deduct</i>	-1.03	
	<i>For &gt;100, Deduct</i>	-2.05	
05 05 19 00-0201	EA 3/16" x 2-1/4" Tapcon Masonry Screw.....	10.47	
	<i>For &gt;10 To 50, Deduct</i>	-0.51	
	<i>For &gt;50 To 100, Deduct</i>	-1.03	
	<i>For &gt;100, Deduct</i>	-2.06	
05 05 19 00-0202	EA 3/16" x 3-1/4" Tapcon Masonry Screw.....	10.59	
	<i>For &gt;10 To 50, Deduct</i>	-0.51	
	<i>For &gt;50 To 100, Deduct</i>	-1.03	
	<i>For &gt;100, Deduct</i>	-2.06	
05 05 19 00-0203	EA 1/4" x 1-1/4" Tapcon Masonry Screw.....	10.48	
	<i>For &gt;10 To 50, Deduct</i>	-0.51	
	<i>For &gt;50 To 100, Deduct</i>	-1.03	
	<i>For &gt;100, Deduct</i>	-2.06	
05 05 19 00-0204	EA 1/4" x 2-1/4" Tapcon Masonry Screw.....	10.54	
	<i>For &gt;10 To 50, Deduct</i>	-0.51	
	<i>For &gt;50 To 100, Deduct</i>	-1.03	
	<i>For &gt;100, Deduct</i>	-2.06	
05 05 19 00-0205	EA 1/4" x 3-1/4" Tapcon Masonry Screw.....	10.68	
	<i>For &gt;10 To 50, Deduct</i>	-0.51	
	<i>For &gt;50 To 100, Deduct</i>	-1.03	
	<i>For &gt;100, Deduct</i>	-2.07	
<b>05 05 19 00-0206</b>	<b>Large Diameter, Self-Threading Concrete Fasteners</b> (05 05 19 00-0199)		
	Note: Includes drilling. Zinc plated.		
05 05 19 00-0207	EA 3/8" x 1-3/4", Large Diameter, Self-Threading Concrete Fastener.....	10.92	
	<i>For &gt;10 To 50, Deduct</i>	-0.51	
	<i>For &gt;50 To 100, Deduct</i>	-1.04	
	<i>For &gt;100, Deduct</i>	-2.08	
05 05 19 00-0208	EA 3/8" x 2-1/2", Large Diameter, Self-Threading Concrete Fastener.....	11.18	
	<i>For &gt;10 To 50, Deduct</i>	-0.51	
	<i>For &gt;50 To 100, Deduct</i>	-1.05	
	<i>For &gt;100, Deduct</i>	-2.09	
05 05 19 00-0209	EA 3/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	11.25	
	<i>For &gt;10 To 50, Deduct</i>	-0.51	
	<i>For &gt;50 To 100, Deduct</i>	-1.05	
	<i>For &gt;100, Deduct</i>	-2.09	
05 05 19 00-0210	EA 3/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	11.37	
	<i>For &gt;10 To 50, Deduct</i>	-0.51	
	<i>For &gt;50 To 100, Deduct</i>	-1.05	
	<i>For &gt;100, Deduct</i>	-2.10	
05 05 19 00-0211	EA 3/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	11.48	
	<i>For &gt;10 To 50, Deduct</i>	-0.51	
	<i>For &gt;50 To 100, Deduct</i>	-1.05	
	<i>For &gt;100, Deduct</i>	-2.11	
05 05 19 00-0212	EA 1/2" x 3", Large Diameter, Self-Threading Concrete Fastener.....	11.70	
	<i>For &gt;10 To 50, Deduct</i>	-0.51	
	<i>For &gt;50 To 100, Deduct</i>	-1.06	
	<i>For &gt;100, Deduct</i>	-2.12	
05 05 19 00-0213	EA 1/2" x 4", Large Diameter, Self-Threading Concrete Fastener.....	11.98	
	<i>For &gt;10 To 50, Deduct</i>	-0.51	
	<i>For &gt;50 To 100, Deduct</i>	-1.07	
	<i>For &gt;100, Deduct</i>	-2.13	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 05 19 00-0214	EA		1/2" x 5", Large Diameter, Self-Threading Concrete Fastener.....	12.23	
				<i>For &gt;10 To 50, Deduct</i>	-0.51	
				<i>For &gt;50 To 100, Deduct</i>	-1.07	
				<i>For &gt;100, Deduct</i>	-2.14	
	05 05 19 00-0215	EA		1/2" x 6", Large Diameter, Self-Threading Concrete Fastener.....	12.94	
				<i>For &gt;10 To 50, Deduct</i>	-0.51	
				<i>For &gt;50 To 100, Deduct</i>	-1.09	
				<i>For &gt;100, Deduct</i>	-2.18	
	05 05 19 00-0216	EA		5/8" x 3", Large Diameter, Self-Threading Concrete Fastener.....	13.03	
				<i>For &gt;10 To 50, Deduct</i>	-0.51	
				<i>For &gt;50 To 100, Deduct</i>	-1.09	
				<i>For &gt;100, Deduct</i>	-2.18	
	05 05 19 00-0217	EA		5/8" x 4", Large Diameter, Self-Threading Concrete Fastener.....	13.46	
				<i>For &gt;10 To 50, Deduct</i>	-0.51	
				<i>For &gt;50 To 100, Deduct</i>	-1.10	
				<i>For &gt;100, Deduct</i>	-2.20	
	05 05 19 00-0218	EA		5/8" x 5", Large Diameter, Self-Threading Concrete Fastener.....	13.91	
				<i>For &gt;10 To 50, Deduct</i>	-0.51	
				<i>For &gt;50 To 100, Deduct</i>	-1.11	
				<i>For &gt;100, Deduct</i>	-2.23	
	05 05 19 00-0219	EA		5/8" x 6", Large Diameter, Self-Threading Concrete Fastener.....	14.19	
				<i>For &gt;10 To 50, Deduct</i>	-0.51	
				<i>For &gt;50 To 100, Deduct</i>	-1.12	
				<i>For &gt;100, Deduct</i>	-2.24	
	05 05 19 00-0220	EA		3/4" x 4-1/2", Large Diameter, Self-Threading Concrete Fastener.....	14.06	
				<i>For &gt;10 To 50, Deduct</i>	-0.51	
				<i>For &gt;50 To 100, Deduct</i>	-1.12	
				<i>For &gt;100, Deduct</i>	-2.23	
	05 05 19 00-0221	EA		3/4" x 5-1/2", Large Diameter, Self-Threading Concrete Fastener.....	14.48	
				<i>For &gt;10 To 50, Deduct</i>	-0.51	
				<i>For &gt;50 To 100, Deduct</i>	-1.13	
				<i>For &gt;100, Deduct</i>	-2.26	
	05 05 19 00-0222	EA		3/4" x 6-1/4", Large Diameter, Self-Threading Concrete Fastener.....	15.44	
				<i>For &gt;10 To 50, Deduct</i>	-0.51	
				<i>For &gt;50 To 100, Deduct</i>	-1.15	
				<i>For &gt;100, Deduct</i>	-2.30	
	<b>05 05 19 00-0223</b>			<b>Pin Bolt Drives</b> <small>(05 05 19 00-0198)</small>		
				Note: Includes drilling. Zinc plated.		
	05 05 19 00-0224	EA		1/4" x 1" Pin Bolt Drive.....	6.44	
				<i>For &gt;10 To 50, Deduct</i>	-0.31	
				<i>For &gt;50 To 100, Deduct</i>	-0.62	
				<i>For &gt;100, Deduct</i>	-1.24	
	05 05 19 00-0225	EA		1/4" x 1-1/4" Pin Bolt Drive.....	6.44	
				<i>For &gt;10 To 50, Deduct</i>	-0.31	
				<i>For &gt;50 To 100, Deduct</i>	-0.62	
				<i>For &gt;100, Deduct</i>	-1.24	
	05 05 19 00-0226	EA		1/4" x 1-1/2" Pin Bolt Drive.....	6.48	
				<i>For &gt;10 To 50, Deduct</i>	-0.31	
				<i>For &gt;50 To 100, Deduct</i>	-0.62	
				<i>For &gt;100, Deduct</i>	-1.24	
	05 05 19 00-0227	EA		1/4" x 2" Pin Bolt Drive.....	6.50	
				<i>For &gt;10 To 50, Deduct</i>	-0.31	
				<i>For &gt;50 To 100, Deduct</i>	-0.62	
				<i>For &gt;100, Deduct</i>	-1.24	
	<b>05 05 19 00-0228</b>			<b>Powder Actuated, Shot-In Place Anchors</b> <small>(05 05 19 00-0198)</small>		
	05 05 19 00-0229	EA		0.15" Diameter x 1/2" Length, Stud Powder Actuated Anchor.....	1.57	
				<i>For &gt;10 To 50, Deduct</i>	-0.07	
				<i>For &gt;50 To 100, Deduct</i>	-0.14	
				<i>For &gt;100, Deduct</i>	-0.29	
	05 05 19 00-0230	EA		0.15" Diameter x 3/4" Length, Stud Powder Actuated Anchor.....	1.66	
				<i>For &gt;10 To 50, Deduct</i>	-0.07	
				<i>For &gt;50 To 100, Deduct</i>	-0.15	
				<i>For &gt;100, Deduct</i>	-0.30	
	05 05 19 00-0231	EA		0.15"/0.18" Diameter x 1" Length, Stud Powder Actuated Anchor.....	1.79	
				<i>For &gt;10 To 50, Deduct</i>	-0.08	
				<i>For &gt;50 To 100, Deduct</i>	-0.16	
				<i>For &gt;100, Deduct</i>	-0.32	
	05 05 19 00-0232	EA		0.15"/0.18" Diameter x 1-1/4" Length, Stud Powder Actuated Anchor.....	1.96	
				<i>For &gt;10 To 50, Deduct</i>	-0.08	
				<i>For &gt;50 To 100, Deduct</i>	-0.17	
				<i>For &gt;100, Deduct</i>	-0.34	
	05 05 19 00-0233	EA		0.15"/0.18" Diameter x 1-7/8" Length, Stud Powder Actuated Anchor.....	2.05	
				<i>For &gt;10 To 50, Deduct</i>	-0.08	
				<i>For &gt;50 To 100, Deduct</i>	-0.17	
				<i>For &gt;100, Deduct</i>	-0.35	
	<b>05 05 19 00-0234</b>			<b>Powder Actuated, Shot-In Place Anchors With Exposed Thread</b> <small>(05 05 19 00-0198)</small>		

**05 Metals****05 05 Common Work Results For Metals****05 05 19 Post-Installed Concrete Anchors**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 19 00-0235	EA		0.145" Diameter x 1" Long Shank, 3/4" Thread Length, 1/4" - 20 Treaded Stud Powder Actuated Anchor.....	1.82	
			<i>For &gt;10 To 50, Deduct</i>	-0.07	
			<i>For &gt;50 To 100, Deduct</i>	-0.15	
			<i>For &gt;100, Deduct</i>	-0.31	
05 05 19 00-0236	EA		0.205" Diameter x 1-1/6" Long Shank, 1" Thread Length, 3/8" - 16 Treaded Stud Powder Actuated Anchor.....	2.41	
			<i>For &gt;10 To 50, Deduct</i>	-0.09	
			<i>For &gt;50 To 100, Deduct</i>	-0.19	
			<i>For &gt;100, Deduct</i>	-0.38	
<b>05 05 23 Metal Fastenings (05 05)</b>					
05 05 23 00-0001			<b>Hex Bolts (05 05 23)</b>		
			Note: For owner furnished materials or where requested by the owner. Excludes drilling through wood, steel, concrete, brick or block. See CSI section 02 41 19 13-0221 for drilling into concrete, 02 41 19 13-0231 for drilling into brick or block, 02 41 19 13-0241 for drilling into wood or plastic, 05 05 23 00-1567 for drilling through steel.		
05 05 23 00-0002			<b>A307B Heavy Hex Bolts (05 05 23 00-0001)</b>		
			Note: Includes A307B heavy hex nut and two structural washers.		
05 05 23 00-0003			<b>Plain Finish A307B Heavy Hex Bolts (05 05 23 00-0002)</b>		
05 05 23 00-0004	EA		1/2" Diameter x 1-1/2" Long, Plain Finish A307B Heavy Hex Bolt .....	11.21	1.08
			<i>For &gt;10 To 50, Deduct</i>	-0.45	
			<i>For &gt;50 To 100, Deduct</i>	-0.95	
			<i>For &gt;100, Deduct</i>	-1.91	
05 05 23 00-0005	EA		1/2" Diameter x 3" Long, Plain Finish A307B Heavy Hex Bolt .....	12.50	1.08
			<i>For &gt;10 To 50, Deduct</i>	-0.45	
			<i>For &gt;50 To 100, Deduct</i>	-0.99	
			<i>For &gt;100, Deduct</i>	-1.97	
05 05 23 00-0006	EA		5/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt .....	12.54	1.08
			<i>For &gt;10 To 50, Deduct</i>	-0.45	
			<i>For &gt;50 To 100, Deduct</i>	-0.99	
			<i>For &gt;100, Deduct</i>	-1.97	
05 05 23 00-0007	EA		5/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt .....	15.00	1.23
			<i>For &gt;10 To 50, Deduct</i>	-0.51	
			<i>For &gt;50 To 100, Deduct</i>	-1.14	
			<i>For &gt;100, Deduct</i>	-2.29	
05 05 23 00-0008	EA		3/4" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt .....	14.70	1.08
			<i>For &gt;10 To 50, Deduct</i>	-0.45	
			<i>For &gt;50 To 100, Deduct</i>	-1.04	
			<i>For &gt;100, Deduct</i>	-2.08	
05 05 23 00-0009	EA		3/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt .....	17.69	1.23
			<i>For &gt;10 To 50, Deduct</i>	-0.51	
			<i>For &gt;50 To 100, Deduct</i>	-1.21	
			<i>For &gt;100, Deduct</i>	-2.42	
05 05 23 00-0010	EA		3/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt .....	22.70	1.29
			<i>For &gt;10 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.37	
			<i>For &gt;100, Deduct</i>	-2.74	
05 05 23 00-0011	EA		3/4" Diameter x 8" Long, Plain Finish A307B Heavy Hex Bolt .....	24.41	1.35
			<i>For &gt;10 To 50, Deduct</i>	-0.56	
			<i>For &gt;50 To 100, Deduct</i>	-1.46	
			<i>For &gt;100, Deduct</i>	-2.91	
05 05 23 00-0012	EA		7/8" Diameter x 2" Long, Plain Finish A307B Heavy Hex Bolt .....	17.76	1.17
			<i>For &gt;10 To 50, Deduct</i>	-0.49	
			<i>For &gt;50 To 100, Deduct</i>	-1.17	
			<i>For &gt;100, Deduct</i>	-2.35	
05 05 23 00-0013	EA		7/8" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt .....	21.57	1.29
			<i>For &gt;10 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.34	
			<i>For &gt;100, Deduct</i>	-2.68	
05 05 23 00-0014	EA		1" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt .....	25.57	1.35
			<i>For &gt;10 To 50, Deduct</i>	-0.56	
			<i>For &gt;50 To 100, Deduct</i>	-1.48	
			<i>For &gt;100, Deduct</i>	-2.97	
05 05 23 00-0015	EA		1" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt .....	37.12	1.42
			<i>For &gt;10 To 50, Deduct</i>	-0.59	
			<i>For &gt;50 To 100, Deduct</i>	-1.82	
			<i>For &gt;100, Deduct</i>	-3.63	
05 05 23 00-0016	EA		1-1/4" Diameter x 4" Long, Plain Finish A307B Heavy Hex Bolt .....	43.52	1.60
			<i>For &gt;10 To 50, Deduct</i>	-0.67	
			<i>For &gt;50 To 100, Deduct</i>	-2.09	
			<i>For &gt;100, Deduct</i>	-4.18	
05 05 23 00-0017	EA		1-1/4" Diameter x 6" Long, Plain Finish A307B Heavy Hex Bolt .....	49.08	1.72
			<i>For &gt;10 To 50, Deduct</i>	-0.72	
			<i>For &gt;50 To 100, Deduct</i>	-2.30	
			<i>For &gt;100, Deduct</i>	-4.60	
05 05 23 00-0018			<b>Galvanized A307B Heavy Hex Bolts (05 05 23 00-0002)</b>		
05 05 23 00-0019	EA		1/2" Diameter x 1-1/2" Long, Galvanized A307B Heavy Hex Bolt.....	11.85	1.08
			<i>For &gt;10 To 50, Deduct</i>	-0.45	
			<i>For &gt;50 To 100, Deduct</i>	-0.97	
			<i>For &gt;100, Deduct</i>	-1.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0020 EA 1/2" Diameter x 3" Long, Galvanized A307B Heavy Hex Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	12.93 -0.45 -1.00 -1.99	1.08
05 05 23 00-0021 EA 5/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	14.10 -0.45 -1.03 -2.05	1.08
05 05 23 00-0022 EA 5/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	16.56 -0.51 -1.18 -2.37	1.23
05 05 23 00-0023 EA 3/4" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	16.48 -0.45 -1.09 -2.17	1.08
05 05 23 00-0024 EA 3/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	20.97 -0.51 -1.29 -2.59	1.23
05 05 23 00-0025 EA 3/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	28.35 -0.54 -1.51 -3.03	1.29
05 05 23 00-0026 EA 3/4" Diameter x 8" Long, Galvanized A307B Heavy Hex Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	33.55 -0.56 -1.68 -3.37	1.35
05 05 23 00-0027 EA 7/8" Diameter x 2" Long, Galvanized A307B Heavy Hex Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	22.40 -0.49 -1.29 -2.58	1.17
05 05 23 00-0028 EA 7/8" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	26.80 -0.54 -1.47 -2.95	1.29
05 05 23 00-0029 EA 1" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	32.32 -0.56 -1.65 -3.31	1.35
05 05 23 00-0030 EA 1" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	49.35 -0.59 -2.12 -4.25	1.42
05 05 23 00-0031 EA 1-1/4" Diameter x 4" Long, Galvanized A307B Heavy Hex Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	49.00 -0.67 -2.23 -4.46	1.60
05 05 23 00-0032 EA 1-1/4" Diameter x 6" Long, Galvanized A307B Heavy Hex Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	61.76 -0.72 -2.62 -5.24	1.72
<b>05 05 23 00-0033 A325 High Strength Structural Bolts</b> <small>(05 05 23 00-0001)</small>		
<b>05 05 23 00-0034 Plain Finish A325 High Strength Structural Bolts</b> <small>(05 05 23 00-0033)</small> Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0035 EA 1/2" Diameter x 1-1/2" Long, Plain Finish A325 High Strength Structural Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	10.91 -0.45 -0.95 -1.89	1.08
05 05 23 00-0036 EA 1/2" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	11.20 -0.45 -0.95 -1.91	1.08
05 05 23 00-0037 EA 5/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	12.11 -0.45 -0.98 -1.95	1.08
05 05 23 00-0038 EA 5/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	15.03 -0.51 -1.15 -2.29	1.23
05 05 23 00-0039 EA 5/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	17.66 -0.54 -1.25 -2.49	1.29
05 05 23 00-0040 EA 3/4" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	13.38 -0.45 -1.01 -2.02	1.08
05 05 23 00-0041 EA 3/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt..... <i>For &gt;10 To 50, Deduct</i> <i>For &gt;50 To 100, Deduct</i> <i>For &gt;100, Deduct</i>	16.38 -0.51 -1.18 -2.36	1.23

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0042	EA		3/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	18.85	1.29
			<i>For &gt;10 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.28	
			<i>For &gt;100, Deduct</i>	-2.55	
05 05 23 00-0043	EA		3/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	23.61	1.35
			<i>For &gt;10 To 50, Deduct</i>	-0.56	
			<i>For &gt;50 To 100, Deduct</i>	-1.44	
			<i>For &gt;100, Deduct</i>	-2.87	
05 05 23 00-0044	EA		7/8" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	15.68	1.17
			<i>For &gt;10 To 50, Deduct</i>	-0.49	
			<i>For &gt;50 To 100, Deduct</i>	-1.12	
			<i>For &gt;100, Deduct</i>	-2.25	
05 05 23 00-0045	EA		7/8" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	19.35	1.29
			<i>For &gt;10 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.29	
			<i>For &gt;100, Deduct</i>	-2.57	
05 05 23 00-0046	EA		7/8" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	22.29	1.35
			<i>For &gt;10 To 50, Deduct</i>	-0.56	
			<i>For &gt;50 To 100, Deduct</i>	-1.40	
			<i>For &gt;100, Deduct</i>	-2.81	
05 05 23 00-0047	EA		7/8" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	24.24	1.42
			<i>For &gt;10 To 50, Deduct</i>	-0.59	
			<i>For &gt;50 To 100, Deduct</i>	-1.49	
			<i>For &gt;100, Deduct</i>	-2.99	
05 05 23 00-0048	EA		1" Diameter x 2" Long, Plain Finish A325 High Strength Structural Bolt.....	17.47	1.22
			<i>For &gt;10 To 50, Deduct</i>	-0.51	
			<i>For &gt;50 To 100, Deduct</i>	-1.20	
			<i>For &gt;100, Deduct</i>	-2.39	
05 05 23 00-0049	EA		1" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	21.22	1.35
			<i>For &gt;10 To 50, Deduct</i>	-0.56	
			<i>For &gt;50 To 100, Deduct</i>	-1.38	
			<i>For &gt;100, Deduct</i>	-2.75	
05 05 23 00-0050	EA		1" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	24.85	1.42
			<i>For &gt;10 To 50, Deduct</i>	-0.59	
			<i>For &gt;50 To 100, Deduct</i>	-1.51	
			<i>For &gt;100, Deduct</i>	-3.02	
05 05 23 00-0051	EA		1" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	32.39	1.51
			<i>For &gt;10 To 50, Deduct</i>	-0.63	
			<i>For &gt;50 To 100, Deduct</i>	-1.76	
			<i>For &gt;100, Deduct</i>	-3.51	
05 05 23 00-0052	EA		1-1/4" Diameter x 3" Long, Plain Finish A325 High Strength Structural Bolt.....	30.80	1.51
			<i>For &gt;10 To 50, Deduct</i>	-0.63	
			<i>For &gt;50 To 100, Deduct</i>	-1.72	
			<i>For &gt;100, Deduct</i>	-3.43	
05 05 23 00-0053	EA		1-1/4" Diameter x 4" Long, Plain Finish A325 High Strength Structural Bolt.....	35.11	1.60
			<i>For &gt;10 To 50, Deduct</i>	-0.67	
			<i>For &gt;50 To 100, Deduct</i>	-1.88	
			<i>For &gt;100, Deduct</i>	-3.76	
05 05 23 00-0054	EA		1-1/4" Diameter x 6" Long, Plain Finish A325 High Strength Structural Bolt.....	41.51	1.72
			<i>For &gt;10 To 50, Deduct</i>	-0.72	
			<i>For &gt;50 To 100, Deduct</i>	-2.11	
			<i>For &gt;100, Deduct</i>	-4.23	
05 05 23 00-0055	EA		1-1/4" Diameter x 8" Long, Plain Finish A325 High Strength Structural Bolt.....	49.08	1.83
			<i>For &gt;10 To 50, Deduct</i>	-0.76	
			<i>For &gt;50 To 100, Deduct</i>	-2.37	
			<i>For &gt;100, Deduct</i>	-4.75	
<b>05 05 23 00-0056</b>			<b>Galvanized A325 High Strength Structural Bolts (05 05 23 00-0033)</b>		
			Note: Includes A325 heavy hex nut and structural washer.		
05 05 23 00-0057	EA		1/2" Diameter x 1-1/2" Long, Galvanized A325 High Strength Structural Bolt.....	11.48	1.08
			<i>For &gt;10 To 50, Deduct</i>	-0.45	
			<i>For &gt;50 To 100, Deduct</i>	-0.96	
			<i>For &gt;100, Deduct</i>	-1.92	
05 05 23 00-0058	EA		1/2" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt.....	11.69	1.08
			<i>For &gt;10 To 50, Deduct</i>	-0.45	
			<i>For &gt;50 To 100, Deduct</i>	-0.97	
			<i>For &gt;100, Deduct</i>	-1.93	
05 05 23 00-0059	EA		5/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	13.31	1.08
			<i>For &gt;10 To 50, Deduct</i>	-0.45	
			<i>For &gt;50 To 100, Deduct</i>	-1.01	
			<i>For &gt;100, Deduct</i>	-2.01	
05 05 23 00-0060	EA		5/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	15.88	1.23
			<i>For &gt;10 To 50, Deduct</i>	-0.51	
			<i>For &gt;50 To 100, Deduct</i>	-1.17	
			<i>For &gt;100, Deduct</i>	-2.33	
05 05 23 00-0061	EA		5/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	16.84	1.29
			<i>For &gt;10 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.23	
			<i>For &gt;100, Deduct</i>	-2.45	
05 05 23 00-0062	EA		3/4" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	13.93	1.08
			<i>For &gt;10 To 50, Deduct</i>	-0.45	
			<i>For &gt;50 To 100, Deduct</i>	-1.02	
			<i>For &gt;100, Deduct</i>	-2.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0063 EA 3/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	17.07	1.23
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.20	
<i>For &gt;100, Deduct</i>	-2.39	
05 05 23 00-0064 EA 3/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	19.93	1.29
<i>For &gt;10 To 50, Deduct</i>	-0.54	
<i>For &gt;50 To 100, Deduct</i>	-1.30	
<i>For &gt;100, Deduct</i>	-2.60	
05 05 23 00-0065 EA 3/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	26.17	1.35
<i>For &gt;10 To 50, Deduct</i>	-0.56	
<i>For &gt;50 To 100, Deduct</i>	-1.50	
<i>For &gt;100, Deduct</i>	-3.00	
05 05 23 00-0066 EA 7/8" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt.....	18.99	1.17
<i>For &gt;10 To 50, Deduct</i>	-0.49	
<i>For &gt;50 To 100, Deduct</i>	-1.21	
<i>For &gt;100, Deduct</i>	-2.41	
05 05 23 00-0067 EA 7/8" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt.....	21.31	1.29
<i>For &gt;10 To 50, Deduct</i>	-0.54	
<i>For &gt;50 To 100, Deduct</i>	-1.34	
<i>For &gt;100, Deduct</i>	-2.67	
05 05 23 00-0068 EA 7/8" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt.....	24.67	1.35
<i>For &gt;10 To 50, Deduct</i>	-0.56	
<i>For &gt;50 To 100, Deduct</i>	-1.46	
<i>For &gt;100, Deduct</i>	-2.92	
05 05 23 00-0069 EA 7/8" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt.....	31.37	1.42
<i>For &gt;10 To 50, Deduct</i>	-0.59	
<i>For &gt;50 To 100, Deduct</i>	-1.67	
<i>For &gt;100, Deduct</i>	-3.35	
05 05 23 00-0070 EA 1" Diameter x 2" Long, Galvanized A325 High Strength Structural Bolt .....	20.05	1.22
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.26	
<i>For &gt;100, Deduct</i>	-2.52	
05 05 23 00-0071 EA 1" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt .....	27.12	1.35
<i>For &gt;10 To 50, Deduct</i>	-0.56	
<i>For &gt;50 To 100, Deduct</i>	-1.52	
<i>For &gt;100, Deduct</i>	-3.05	
05 05 23 00-0072 EA 1" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt .....	29.80	1.42
<i>For &gt;10 To 50, Deduct</i>	-0.59	
<i>For &gt;50 To 100, Deduct</i>	-1.63	
<i>For &gt;100, Deduct</i>	-3.27	
05 05 23 00-0073 EA 1" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt .....	38.49	1.51
<i>For &gt;10 To 50, Deduct</i>	-0.63	
<i>For &gt;50 To 100, Deduct</i>	-1.91	
<i>For &gt;100, Deduct</i>	-3.82	
05 05 23 00-0074 EA 1-1/4" Diameter x 3" Long, Galvanized A325 High Strength Structural Bolt .....	38.24	1.51
<i>For &gt;10 To 50, Deduct</i>	-0.63	
<i>For &gt;50 To 100, Deduct</i>	-1.90	
<i>For &gt;100, Deduct</i>	-3.80	
05 05 23 00-0075 EA 1-1/4" Diameter x 4" Long, Galvanized A325 High Strength Structural Bolt .....	40.80	1.60
<i>For &gt;10 To 50, Deduct</i>	-0.67	
<i>For &gt;50 To 100, Deduct</i>	-2.02	
<i>For &gt;100, Deduct</i>	-4.05	
05 05 23 00-0076 EA 1-1/4" Diameter x 6" Long, Galvanized A325 High Strength Structural Bolt .....	48.03	1.72
<i>For &gt;10 To 50, Deduct</i>	-0.72	
<i>For &gt;50 To 100, Deduct</i>	-2.28	
<i>For &gt;100, Deduct</i>	-4.55	
05 05 23 00-0077 EA 1-1/4" Diameter x 8" Long, Galvanized A325 High Strength Structural Bolt .....	55.88	1.83
<i>For &gt;10 To 50, Deduct</i>	-0.76	
<i>For &gt;50 To 100, Deduct</i>	-2.54	
<i>For &gt;100, Deduct</i>	-5.09	
<b>05 05 23 00-0078 A490 High Strength Structural Bolts</b> <small>(05 05 23 00-0001)</small>		
Note: Includes A490 heavy hex nut and two structural washers.		
<b>05 05 23 00-0079 Plain Finish A490 High Strength Structural Bolts</b> <small>(05 05 23 00-0078)</small>		
05 05 23 00-0080 EA 5/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	12.56	1.08
<i>For &gt;10 To 50, Deduct</i>	-0.45	
<i>For &gt;50 To 100, Deduct</i>	-0.99	
<i>For &gt;100, Deduct</i>	-1.98	
05 05 23 00-0081 EA 5/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	18.12	1.23
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.22	
<i>For &gt;100, Deduct</i>	-2.45	
05 05 23 00-0082 EA 5/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	19.43	1.29
<i>For &gt;10 To 50, Deduct</i>	-0.54	
<i>For &gt;50 To 100, Deduct</i>	-1.29	
<i>For &gt;100, Deduct</i>	-2.58	
05 05 23 00-0083 EA 3/4" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	14.31	1.08
<i>For &gt;10 To 50, Deduct</i>	-0.45	
<i>For &gt;50 To 100, Deduct</i>	-1.03	
<i>For &gt;100, Deduct</i>	-2.06	
05 05 23 00-0084 EA 3/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	17.44	1.23
<i>For &gt;10 To 50, Deduct</i>	-0.51	
<i>For &gt;50 To 100, Deduct</i>	-1.20	
<i>For &gt;100, Deduct</i>	-2.41	

## 05 Metals

## 05 05 Common Work Results For Metals

## 05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0085	EA		3/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	20.57	1.29
			<i>For &gt;10 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.32	
			<i>For &gt;100, Deduct</i>	-2.64	
05 05 23 00-0086	EA		3/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	26.95	1.35
			<i>For &gt;10 To 50, Deduct</i>	-0.56	
			<i>For &gt;50 To 100, Deduct</i>	-1.52	
			<i>For &gt;100, Deduct</i>	-3.04	
05 05 23 00-0087	EA		7/8" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	16.76	1.17
			<i>For &gt;10 To 50, Deduct</i>	-0.49	
			<i>For &gt;50 To 100, Deduct</i>	-1.15	
			<i>For &gt;100, Deduct</i>	-2.30	
05 05 23 00-0088	EA		7/8" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	19.69	1.29
			<i>For &gt;10 To 50, Deduct</i>	-0.54	
			<i>For &gt;50 To 100, Deduct</i>	-1.29	
			<i>For &gt;100, Deduct</i>	-2.59	
05 05 23 00-0089	EA		7/8" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	29.27	1.35
			<i>For &gt;10 To 50, Deduct</i>	-0.56	
			<i>For &gt;50 To 100, Deduct</i>	-1.58	
			<i>For &gt;100, Deduct</i>	-3.15	
05 05 23 00-0090	EA		1" Diameter x 2" Long, Plain Finish A490 High Strength Structural Bolt.....	19.99	1.22
			<i>For &gt;10 To 50, Deduct</i>	-0.51	
			<i>For &gt;50 To 100, Deduct</i>	-1.26	
			<i>For &gt;100, Deduct</i>	-2.52	
05 05 23 00-0091	EA		1" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	24.05	1.35
			<i>For &gt;10 To 50, Deduct</i>	-0.56	
			<i>For &gt;50 To 100, Deduct</i>	-1.45	
			<i>For &gt;100, Deduct</i>	-2.89	
05 05 23 00-0092	EA		1" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	27.90	1.42
			<i>For &gt;10 To 50, Deduct</i>	-0.59	
			<i>For &gt;50 To 100, Deduct</i>	-1.59	
			<i>For &gt;100, Deduct</i>	-3.17	
05 05 23 00-0093	EA		1-1/4" Diameter x 3" Long, Plain Finish A490 High Strength Structural Bolt.....	35.30	1.51
			<i>For &gt;10 To 50, Deduct</i>	-0.63	
			<i>For &gt;50 To 100, Deduct</i>	-1.83	
			<i>For &gt;100, Deduct</i>	-3.66	
05 05 23 00-0094	EA		1-1/4" Diameter x 4" Long, Plain Finish A490 High Strength Structural Bolt.....	45.86	1.60
			<i>For &gt;10 To 50, Deduct</i>	-0.67	
			<i>For &gt;50 To 100, Deduct</i>	-2.15	
			<i>For &gt;100, Deduct</i>	-4.30	
05 05 23 00-0095	EA		1-1/4" Diameter x 6" Long, Plain Finish A490 High Strength Structural Bolt.....	48.20	1.72
			<i>For &gt;10 To 50, Deduct</i>	-0.72	
			<i>For &gt;50 To 100, Deduct</i>	-2.28	
			<i>For &gt;100, Deduct</i>	-4.56	
05 05 23 00-0096	EA		1-1/4" Diameter x 8" Long, Plain Finish A490 High Strength Structural Bolt.....	50.23	1.83
			<i>For &gt;10 To 50, Deduct</i>	-0.76	
			<i>For &gt;50 To 100, Deduct</i>	-2.40	
			<i>For &gt;100, Deduct</i>	-4.81	
05 05 23 00-0097			Hex Head Bolts (05 05 23 00-0001)		
05 05 23 00-0098			Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0099			1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0098)		
05 05 23 00-0100	EA		1/4" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.49	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0101	EA		1/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.51	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0102	EA		1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.59	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0103	EA		1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.62	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0104	EA		1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.85	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0105	EA		1/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.88	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0106	EA		1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.99	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0107 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.18	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0108 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.21	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0109 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.39	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0110 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.69	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0111 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.82	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0112 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.00	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0113 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.58	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0114 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.85	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0115 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.92	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
<b>05 05 23 00-0116 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small></b>		
05 05 23 00-0117 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.55	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0118 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.58	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0119 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.64	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0120 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.69	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0121 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.93	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0122 EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.04	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0123 EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.09	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0124 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.38	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0125 EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.54	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0126 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.60	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0127 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.84	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0128	EA		5/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.90	
			<i>For &gt;100 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-1.73	
			<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0129	EA		5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.52	
			<i>For &gt;100 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-1.73	
			<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0130	EA		5/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.03	
			<i>For &gt;100 To 250, Deduct</i>	-1.43	
			<i>For &gt;250 To 500, Deduct</i>	-1.78	
			<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0131	EA		5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.30	
			<i>For &gt;100 To 250, Deduct</i>	-1.43	
			<i>For &gt;250 To 500, Deduct</i>	-1.78	
			<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0132	EA		5/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.55	
			<i>For &gt;100 To 250, Deduct</i>	-1.43	
			<i>For &gt;250 To 500, Deduct</i>	-1.78	
			<i>For &gt;500, Deduct</i>	-2.14	
<b>05 05 23 00-0133</b>			<b>3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0098)</small>		
05 05 23 00-0134	EA		3/8" Diameter x 1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.63	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0135	EA		3/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.65	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0136	EA		3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.74	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0137	EA		3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.82	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0138	EA		3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.07	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0139	EA		3/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.21	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0140	EA		3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.36	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0141	EA		3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.68	
			<i>For &gt;100 To 250, Deduct</i>	-1.35	
			<i>For &gt;250 To 500, Deduct</i>	-1.69	
			<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0142	EA		3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.87	
			<i>For &gt;100 To 250, Deduct</i>	-1.35	
			<i>For &gt;250 To 500, Deduct</i>	-1.69	
			<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0143	EA		3/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.97	
			<i>For &gt;100 To 250, Deduct</i>	-1.35	
			<i>For &gt;250 To 500, Deduct</i>	-1.69	
			<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0144	EA		3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.34	
			<i>For &gt;100 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-1.73	
			<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0145	EA		3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.45	
			<i>For &gt;100 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-1.73	
			<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0146	EA		3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.52	
			<i>For &gt;100 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-1.73	
			<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0147	EA		3/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.77	
			<i>For &gt;100 To 250, Deduct</i>	-1.43	
			<i>For &gt;250 To 500, Deduct</i>	-1.78	
			<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0148	EA		3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.88	
			<i>For &gt;100 To 250, Deduct</i>	-1.43	
			<i>For &gt;250 To 500, Deduct</i>	-1.78	
			<i>For &gt;500, Deduct</i>	-2.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0149 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.05	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
<b>05 05 23 00-0150 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small></b>		
05 05 23 00-0151 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.90	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0152 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.01	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0153 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.03	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0154 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.37	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0155 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.54	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0156 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.69	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0157 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.25	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0158 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.35	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0159 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.57	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0160 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.09	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0161 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.20	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0162 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.46	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0163 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.76	
<i>For &gt;100 To 250, Deduct</i>	-1.61	
<i>For &gt;250 To 500, Deduct</i>	-2.01	
<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0164 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.99	
<i>For &gt;100 To 250, Deduct</i>	-1.61	
<i>For &gt;250 To 500, Deduct</i>	-2.01	
<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0165 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.47	
<i>For &gt;100 To 250, Deduct</i>	-1.61	
<i>For &gt;250 To 500, Deduct</i>	-2.01	
<i>For &gt;500, Deduct</i>	-2.41	
<b>05 05 23 00-0166 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small></b>		
05 05 23 00-0167 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.80	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0168 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.94	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0169 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.08	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0170	EA		1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.42	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0171	EA		1/2" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.56	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0172	EA		1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.71	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0173	EA		1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.08	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0174	EA		1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.25	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0175	EA		1/2" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.54	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0176	EA		1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.76	
			<i>For &gt;100 To 250, Deduct</i>	-1.57	
			<i>For &gt;250 To 500, Deduct</i>	-1.96	
			<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0177	EA		1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.79	
			<i>For &gt;100 To 250, Deduct</i>	-1.57	
			<i>For &gt;250 To 500, Deduct</i>	-1.96	
			<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0178	EA		1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.04	
			<i>For &gt;100 To 250, Deduct</i>	-1.57	
			<i>For &gt;250 To 500, Deduct</i>	-1.96	
			<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0179	EA		1/2" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.45	
			<i>For &gt;100 To 250, Deduct</i>	-1.61	
			<i>For &gt;250 To 500, Deduct</i>	-2.01	
			<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0180	EA		1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.60	
			<i>For &gt;100 To 250, Deduct</i>	-1.61	
			<i>For &gt;250 To 500, Deduct</i>	-2.01	
			<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0181	EA		1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.03	
			<i>For &gt;100 To 250, Deduct</i>	-1.61	
			<i>For &gt;250 To 500, Deduct</i>	-2.01	
			<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0182	EA		1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.43	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0183	EA		1/2" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.58	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0184	EA		1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.19	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0185	EA		1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.36	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0186			<b>9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0098)</small>		
05 05 23 00-0187	EA		9/16" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.95	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0188	EA		9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.14	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0189	EA		9/16" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.19	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0190	EA		9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.99	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0191 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.24	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0192 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.33	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0193 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.54	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0194 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.60	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0195 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.81	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0196 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.04	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0197 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.10	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0198 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.29	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0199 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.67	
<i>For &gt;100 To 250, Deduct</i>	-1.61	
<i>For &gt;250 To 500, Deduct</i>	-2.01	
<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0200 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.90	
<i>For &gt;100 To 250, Deduct</i>	-1.61	
<i>For &gt;250 To 500, Deduct</i>	-2.01	
<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0201 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.12	
<i>For &gt;100 To 250, Deduct</i>	-1.61	
<i>For &gt;250 To 500, Deduct</i>	-2.01	
<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0202 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.51	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0203 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.77	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0204 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.95	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0205 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.22	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
<b>05 05 23 00-0206 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small></b>		
05 05 23 00-0207 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.28	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0208 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.40	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0209 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.57	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0210 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.98	
<i>For &gt;100 To 250, Deduct</i>	-1.68	
<i>For &gt;250 To 500, Deduct</i>	-2.10	
<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0211 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.22	
<i>For &gt;100 To 250, Deduct</i>	-1.68	
<i>For &gt;250 To 500, Deduct</i>	-2.10	
<i>For &gt;500, Deduct</i>	-2.52	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0212	EA		5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.53	
			<i>For &gt;100 To 250, Deduct</i>	-1.68	
			<i>For &gt;250 To 500, Deduct</i>	-2.10	
			<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0213	EA		5/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.10	
			<i>For &gt;100 To 250, Deduct</i>	-1.72	
			<i>For &gt;250 To 500, Deduct</i>	-2.15	
			<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0214	EA		5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.58	
			<i>For &gt;100 To 250, Deduct</i>	-1.72	
			<i>For &gt;250 To 500, Deduct</i>	-2.15	
			<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0215	EA		5/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.94	
			<i>For &gt;100 To 250, Deduct</i>	-1.72	
			<i>For &gt;250 To 500, Deduct</i>	-2.15	
			<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0216	EA		5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.28	
			<i>For &gt;100 To 250, Deduct</i>	-1.75	
			<i>For &gt;250 To 500, Deduct</i>	-2.19	
			<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0217	EA		5/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.33	
			<i>For &gt;100 To 250, Deduct</i>	-1.75	
			<i>For &gt;250 To 500, Deduct</i>	-2.19	
			<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0218	EA		5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.95	
			<i>For &gt;100 To 250, Deduct</i>	-1.75	
			<i>For &gt;250 To 500, Deduct</i>	-2.19	
			<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0219	EA		5/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.49	
			<i>For &gt;100 To 250, Deduct</i>	-1.79	
			<i>For &gt;250 To 500, Deduct</i>	-2.24	
			<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0220	EA		5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.99	
			<i>For &gt;100 To 250, Deduct</i>	-1.79	
			<i>For &gt;250 To 500, Deduct</i>	-2.24	
			<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0221	EA		5/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.57	
			<i>For &gt;100 To 250, Deduct</i>	-1.79	
			<i>For &gt;250 To 500, Deduct</i>	-2.24	
			<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0222	EA		5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.38	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0223	EA		5/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.94	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0224	EA		5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.53	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0225	EA		5/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.98	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0226			<b>3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0098)</small>		
05 05 23 00-0227	EA		3/4" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.70	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0228	EA		3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.96	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0229	EA		3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.20	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0230	EA		3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.67	
			<i>For &gt;100 To 250, Deduct</i>	-1.68	
			<i>For &gt;250 To 500, Deduct</i>	-2.10	
			<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0231	EA		3/4" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.04	
			<i>For &gt;100 To 250, Deduct</i>	-1.68	
			<i>For &gt;250 To 500, Deduct</i>	-2.10	
			<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0232	EA		3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.36	
			<i>For &gt;100 To 250, Deduct</i>	-1.68	
			<i>For &gt;250 To 500, Deduct</i>	-2.10	
			<i>For &gt;500, Deduct</i>	-2.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0233 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.90	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0234 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.35	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0235 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.70	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0236 EA 3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.62	
<i>For &gt;100 To 250, Deduct</i>	-1.75	
<i>For &gt;250 To 500, Deduct</i>	-2.19	
<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0237 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.91	
<i>For &gt;100 To 250, Deduct</i>	-1.75	
<i>For &gt;250 To 500, Deduct</i>	-2.19	
<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0238 EA 3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.47	
<i>For &gt;100 To 250, Deduct</i>	-1.75	
<i>For &gt;250 To 500, Deduct</i>	-2.19	
<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0239 EA 3/4" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.69	
<i>For &gt;100 To 250, Deduct</i>	-1.79	
<i>For &gt;250 To 500, Deduct</i>	-2.24	
<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0240 EA 3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.99	
<i>For &gt;100 To 250, Deduct</i>	-1.79	
<i>For &gt;250 To 500, Deduct</i>	-2.24	
<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0241 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.59	
<i>For &gt;100 To 250, Deduct</i>	-1.79	
<i>For &gt;250 To 500, Deduct</i>	-2.24	
<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0242 EA 3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.57	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0243 EA 3/4" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.17	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0244 EA 3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.98	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0245 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.76	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
<b>05 05 23 00-0246 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts <small>(05 05 23 00-0098)</small></b>		
05 05 23 00-0247 EA 7/8" Diameter x 1" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.96	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0248 EA 7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.18	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0249 EA 7/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.28	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0250 EA 7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.78	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0251 EA 7/8" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.37	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0252 EA 7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.06	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0253 EA 7/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.82	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0254	EA		7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.83	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0255	EA		7/8" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.38	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0256	EA		7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.00	
			<i>For &gt;100 To 250, Deduct</i>	-1.94	
			<i>For &gt;250 To 500, Deduct</i>	-2.42	
			<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0257	EA		7/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.33	
			<i>For &gt;100 To 250, Deduct</i>	-1.94	
			<i>For &gt;250 To 500, Deduct</i>	-2.42	
			<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0258	EA		7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.13	
			<i>For &gt;100 To 250, Deduct</i>	-1.94	
			<i>For &gt;250 To 500, Deduct</i>	-2.42	
			<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0259	EA		7/8" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.10	
			<i>For &gt;100 To 250, Deduct</i>	-1.97	
			<i>For &gt;250 To 500, Deduct</i>	-2.47	
			<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0260	EA		7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.91	
			<i>For &gt;100 To 250, Deduct</i>	-1.97	
			<i>For &gt;250 To 500, Deduct</i>	-2.47	
			<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0261	EA		7/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.70	
			<i>For &gt;100 To 250, Deduct</i>	-1.97	
			<i>For &gt;250 To 500, Deduct</i>	-2.47	
			<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0262	EA		7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.63	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0263	EA		7/8" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.47	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0264	EA		7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.24	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0265	EA		7/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.07	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0266			<b>1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolts</b> (05 05 23 00-0096)		
05 05 23 00-0267	EA		1" Diameter x 1-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.94	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0268	EA		1" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	14.39	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0269	EA		1" Diameter x 2-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.50	
			<i>For &gt;100 To 250, Deduct</i>	-1.86	
			<i>For &gt;250 To 500, Deduct</i>	-2.33	
			<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0270	EA		1" Diameter x 3" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.65	
			<i>For &gt;100 To 250, Deduct</i>	-1.86	
			<i>For &gt;250 To 500, Deduct</i>	-2.33	
			<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0271	EA		1" Diameter x 3-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.70	
			<i>For &gt;100 To 250, Deduct</i>	-1.86	
			<i>For &gt;250 To 500, Deduct</i>	-2.33	
			<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0272	EA		1" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.96	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0273	EA		1" Diameter x 4-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.96	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0274	EA		1" Diameter x 5" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.00	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0275 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.71	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0276 EA 1" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	22.20	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0277 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.08	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0278 EA 1" Diameter x 7" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.14	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0279 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.00	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0280 EA 1" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.90	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0281 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.81	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0282 EA 1" Diameter x 9" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.82	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0283 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.73	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0284 EA 1" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.64	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
<b>05 05 23 00-0285 Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0097)</small>		
<b>05 05 23 00-0286 1/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0285)</small>		
05 05 23 00-0287 EA 1/4" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.54	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0288 EA 1/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.59	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0289 EA 1/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.62	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0290 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.70	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0291 EA 1/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.96	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0292 EA 1/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.09	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0293 EA 1/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.24	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0294 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.54	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0295 EA 1/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.73	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0296 EA 1/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.85	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0297 EA 1/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.16	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-0298 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.28	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-0299 EA 1/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.40	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-0300 EA 1/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.75	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
05 05 23 00-0301 EA 1/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.92	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
05 05 23 00-0302 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.09	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
<b>05 05 23 00-0303 5/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)</b>		
05 05 23 00-0304 EA 5/16" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.63	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0305 EA 5/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.66	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0306 EA 5/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.72	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0307 EA 5/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.82	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0308 EA 5/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.08	
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-1.64	
For >500, Deduct	-1.97	
05 05 23 00-0309 EA 5/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.21	
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-1.64	
For >500, Deduct	-1.97	
05 05 23 00-0310 EA 5/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.44	
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-1.64	
For >500, Deduct	-1.97	
05 05 23 00-0311 EA 5/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.74	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-0312 EA 5/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.92	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-0313 EA 5/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.09	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-0314 EA 5/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.60	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-0315 EA 5/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.66	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-0316 EA 5/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.89	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-0317 EA 5/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.38	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0318 EA 5/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.69	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0319 EA 5/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.99	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
<b>05 05 23 00-0320 3/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0285)</small>		
05 05 23 00-0321 EA 3/8" Diameter x 1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.68	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0322 EA 3/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.71	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0323 EA 3/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.81	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0324 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	6.92	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0325 EA 3/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.22	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0326 EA 3/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.35	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0327 EA 3/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.55	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0328 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.95	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0329 EA 3/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.42	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0330 EA 3/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.63	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0331 EA 3/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.10	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0332 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.30	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0333 EA 3/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.66	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0334 EA 3/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.12	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0335 EA 3/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.59	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0336 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.97	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
<b>05 05 23 00-0337 7/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0285)</small>		
05 05 23 00-0338 EA 7/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.82	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0339 EA 7/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.91	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0340 EA 7/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.15	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0341 EA 7/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.52	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.25	
05 05 23 00-0342 EA 7/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.70	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.25	
05 05 23 00-0343 EA 7/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.86	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.25	
05 05 23 00-0344 EA 7/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.26	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.92	
For >500, Deduct	-2.30	
05 05 23 00-0345 EA 7/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.19	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.92	
For >500, Deduct	-2.30	
05 05 23 00-0346 EA 7/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.61	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.92	
For >500, Deduct	-2.30	
05 05 23 00-0347 EA 7/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.92	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.36	
05 05 23 00-0348 EA 7/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.11	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.36	
05 05 23 00-0349 EA 7/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.31	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.36	
05 05 23 00-0350 EA 7/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.76	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0351 EA 7/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.03	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0352 EA 7/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.31	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
<b>05 05 23 00-0353 1/2" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285)</b>		
05 05 23 00-0354 EA 1/2" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	7.94	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0355 EA 1/2" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.07	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0356 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.21	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0357 EA 1/2" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.62	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.25	
05 05 23 00-0358 EA 1/2" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.83	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.25	
05 05 23 00-0359 EA 1/2" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.05	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0360 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.44	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0361 EA 1/2" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.17	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0362 EA 1/2" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.22	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0363 EA 1/2" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.90	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0364 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.18	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0365 EA 1/2" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	11.91	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0366 EA 1/2" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	12.76	
<i>For &gt;100 To 250, Deduct</i>	-1.61	
<i>For &gt;250 To 500, Deduct</i>	-2.01	
<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0367 EA 1/2" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.17	
<i>For &gt;100 To 250, Deduct</i>	-1.61	
<i>For &gt;250 To 500, Deduct</i>	-2.01	
<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0368 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	13.33	
<i>For &gt;100 To 250, Deduct</i>	-1.61	
<i>For &gt;250 To 500, Deduct</i>	-2.01	
<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0369 EA 1/2" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.27	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0370 EA 1/2" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.00	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0371 EA 1/2" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.02	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0372 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.41	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
<b>05 05 23 00-0373 9/16" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0285)</small>		
05 05 23 00-0374 EA 9/16" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.34	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0375 EA 9/16" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.58	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0376 EA 9/16" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	8.79	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0377 EA 9/16" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.21	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0378 EA 9/16" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.50	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0379 EA 9/16" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	9.84	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0380 EA 9/16" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	10.40	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0381 EA 9/16" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	11.67	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.92	
For >500, Deduct	-2.30	
05 05 23 00-0382 EA 9/16" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.01	
For >100 To 250, Deduct	-1.53	
For >250 To 500, Deduct	-1.92	
For >500, Deduct	-2.30	
05 05 23 00-0383 EA 9/16" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.55	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.36	
05 05 23 00-0384 EA 9/16" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.91	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.36	
05 05 23 00-0385 EA 9/16" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	14.09	
For >100 To 250, Deduct	-1.57	
For >250 To 500, Deduct	-1.96	
For >500, Deduct	-2.36	
05 05 23 00-0386 EA 9/16" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	15.73	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0387 EA 9/16" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	16.22	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0388 EA 9/16" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	17.03	
For >100 To 250, Deduct	-1.61	
For >250 To 500, Deduct	-2.01	
For >500, Deduct	-2.41	
05 05 23 00-0389 EA 9/16" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	18.00	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0390 EA 9/16" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	18.29	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0391 EA 9/16" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	18.59	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0392 EA 9/16" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	19.32	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
<b>05 05 23 00-0393 5/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts (05 05 23 00-0285) .....</b>	<b>9.50</b>	
05 05 23 00-0394 EA 5/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	9.50	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0395 EA 5/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	9.58	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0396 EA 5/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	9.65	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0397 EA 5/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	10.06	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-0398 EA 5/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	10.45	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-0399 EA 5/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	10.81	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-0400 EA 5/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	11.35	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-2.57	
05 05 23 00-0401 EA 5/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.04	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-2.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0402 EA 5/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.41	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0403 EA 5/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.78	
<i>For &gt;100 To 250, Deduct</i>	-1.75	
<i>For &gt;250 To 500, Deduct</i>	-2.19	
<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0404 EA 5/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	13.37	
<i>For &gt;100 To 250, Deduct</i>	-1.75	
<i>For &gt;250 To 500, Deduct</i>	-2.19	
<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0405 EA 5/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	14.31	
<i>For &gt;100 To 250, Deduct</i>	-1.75	
<i>For &gt;250 To 500, Deduct</i>	-2.19	
<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0406 EA 5/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	15.34	
<i>For &gt;100 To 250, Deduct</i>	-1.79	
<i>For &gt;250 To 500, Deduct</i>	-2.24	
<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0407 EA 5/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	16.11	
<i>For &gt;100 To 250, Deduct</i>	-1.79	
<i>For &gt;250 To 500, Deduct</i>	-2.24	
<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0408 EA 5/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	16.23	
<i>For &gt;100 To 250, Deduct</i>	-1.79	
<i>For &gt;250 To 500, Deduct</i>	-2.24	
<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0409 EA 5/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	17.80	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0410 EA 5/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	18.85	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0411 EA 5/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	20.38	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0412 EA 5/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	20.91	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
<b>05 05 23 00-0413 3/4" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0285)</small>		
05 05 23 00-0414 EA 3/4" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	10.38	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0415 EA 3/4" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	10.53	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0416 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	10.61	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0417 EA 3/4" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	11.13	
<i>For &gt;100 To 250, Deduct</i>	-1.68	
<i>For &gt;250 To 500, Deduct</i>	-2.10	
<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0418 EA 3/4" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	11.52	
<i>For &gt;100 To 250, Deduct</i>	-1.68	
<i>For &gt;250 To 500, Deduct</i>	-2.10	
<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0419 EA 3/4" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.11	
<i>For &gt;100 To 250, Deduct</i>	-1.68	
<i>For &gt;250 To 500, Deduct</i>	-2.10	
<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0420 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.69	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0421 EA 3/4" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	13.07	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0422 EA 3/4" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	13.88	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-2.57	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0423	EA		3/4" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	14.42	
			<i>For &gt;100 To 250, Deduct</i>	-1.75	
			<i>For &gt;250 To 500, Deduct</i>	-2.19	
			<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0424	EA		3/4" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	15.09	
			<i>For &gt;100 To 250, Deduct</i>	-1.75	
			<i>For &gt;250 To 500, Deduct</i>	-2.19	
			<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0425	EA		3/4" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	15.89	
			<i>For &gt;100 To 250, Deduct</i>	-1.75	
			<i>For &gt;250 To 500, Deduct</i>	-2.19	
			<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0426	EA		3/4" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	17.22	
			<i>For &gt;100 To 250, Deduct</i>	-1.79	
			<i>For &gt;250 To 500, Deduct</i>	-2.24	
			<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0427	EA		3/4" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	18.06	
			<i>For &gt;100 To 250, Deduct</i>	-1.79	
			<i>For &gt;250 To 500, Deduct</i>	-2.24	
			<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0428	EA		3/4" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	18.54	
			<i>For &gt;100 To 250, Deduct</i>	-1.79	
			<i>For &gt;250 To 500, Deduct</i>	-2.24	
			<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0429	EA		3/4" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	19.97	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0430	EA		3/4" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	20.40	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0431	EA		3/4" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	21.79	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0432	EA		3/4" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	22.13	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
<b>05 05 23 00-0433</b>			<b>7/8" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0285)</small>		
05 05 23 00-0434	EA		7/8" Diameter x 1" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.38	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0435	EA		7/8" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.57	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0436	EA		7/8" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	12.83	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0437	EA		7/8" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	13.29	
			<i>For &gt;100 To 250, Deduct</i>	-1.86	
			<i>For &gt;250 To 500, Deduct</i>	-2.33	
			<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0438	EA		7/8" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	14.07	
			<i>For &gt;100 To 250, Deduct</i>	-1.86	
			<i>For &gt;250 To 500, Deduct</i>	-2.33	
			<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0439	EA		7/8" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	14.59	
			<i>For &gt;100 To 250, Deduct</i>	-1.86	
			<i>For &gt;250 To 500, Deduct</i>	-2.33	
			<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0440	EA		7/8" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	15.16	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0441	EA		7/8" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	16.09	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0442	EA		7/8" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	16.79	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0443	EA		7/8" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	17.30	
			<i>For &gt;100 To 250, Deduct</i>	-1.94	
			<i>For &gt;250 To 500, Deduct</i>	-2.42	
			<i>For &gt;500, Deduct</i>	-2.90	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0444 EA 7/8" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.88	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0445 EA 7/8" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.37	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0446 EA 7/8" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	21.44	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0447 EA 7/8" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.53	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0448 EA 7/8" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.60	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0449 EA 7/8" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	24.35	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0450 EA 7/8" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	25.42	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0451 EA 7/8" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	26.33	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0452 EA 7/8" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	27.24	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
<b>05 05 23 00-0453 1" Diameter, Zinc Plated Steel, Grade 5, Hex Head Bolts</b> <small>(05 05 23 00-0285)</small>		
05 05 23 00-0454 EA 1" Diameter x 1-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.12	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0455 EA 1" Diameter x 2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.18	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0456 EA 1" Diameter x 2-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	14.96	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0457 EA 1" Diameter x 3" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	15.72	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0458 EA 1" Diameter x 3-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	16.28	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0459 EA 1" Diameter x 4" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	17.17	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0460 EA 1" Diameter x 4-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	18.05	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0461 EA 1" Diameter x 5" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	19.35	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0462 EA 1" Diameter x 5-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.45	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0463 EA 1" Diameter x 6" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	20.72	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0464 EA 1" Diameter x 6-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt.....	22.52	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0465 EA 1" Diameter x 7" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	23.86	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-2.96	
05 05 23 00-0466 EA 1" Diameter x 7-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	25.78	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-2.96	
05 05 23 00-0467 EA 1" Diameter x 8" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	26.33	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-2.96	
05 05 23 00-0468 EA 1" Diameter x 8-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	32.66	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0469 EA 1" Diameter x 9" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	33.14	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0470 EA 1" Diameter x 9-1/2" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	34.46	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0471 EA 1" Diameter x 10" Length, Zinc Plated Steel, Grade 5, Hex Head Bolt .....	35.36	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
<b>05 05 23 00-0472 Zinc Plated Steel, Grade 8, Hex Head Bolts</b> (05 05 23 00-0097)		
<b>05 05 23 00-0473 1/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> (05 05 23 00-0472)		
05 05 23 00-0474 EA 1/4" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	6.56	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0475 EA 1/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	6.65	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0476 EA 1/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	6.70	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0477 EA 1/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	6.80	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0478 EA 1/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	7.04	
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-1.64	
For >500, Deduct	-1.97	
05 05 23 00-0479 EA 1/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	7.15	
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-1.64	
For >500, Deduct	-1.97	
05 05 23 00-0480 EA 1/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	7.26	
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-1.64	
For >500, Deduct	-1.97	
05 05 23 00-0481 EA 1/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	7.44	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-0482 EA 1/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	7.74	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-0483 EA 1/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	8.02	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-0484 EA 1/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	8.34	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-0485 EA 1/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	8.49	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-0486 EA 1/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	8.68	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0487 EA 1/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.01	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0488 EA 1/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	9.38	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0489 EA 1/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.55	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
<b>05 05 23 00-0490 5/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> <small>(05 05 23 00-0472)</small>		
05 05 23 00-0491 EA 5/16" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.64	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0492 EA 5/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.70	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0493 EA 5/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	6.88	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0494 EA 5/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.91	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0495 EA 5/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	7.19	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0496 EA 5/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.45	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0497 EA 5/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	7.53	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0498 EA 5/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.86	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0499 EA 5/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	8.03	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0500 EA 5/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.41	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0501 EA 5/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	8.81	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0502 EA 5/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.96	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0503 EA 5/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	9.18	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0504 EA 5/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.54	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0505 EA 5/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	9.70	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0506 EA 5/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.02	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	

05 05 23 00-0507 3/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)

<b>05</b>	<b>Metals</b>
<b>05 05</b>	<b>Common Work Results For Metals</b>
<b>05 05 23</b>	<b>Metal Fastenings</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0508 EA 3/8" Diameter x 1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.83	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0509 EA 3/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.85	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0510 EA 3/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	6.87	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0511 EA 3/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.07	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0512 EA 3/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.37	
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-1.64	
For >500, Deduct	-1.97	
05 05 23 00-0513 EA 3/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.58	
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-1.64	
For >500, Deduct	-1.97	
05 05 23 00-0514 EA 3/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.77	
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-1.64	
For >500, Deduct	-1.97	
05 05 23 00-0515 EA 3/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.54	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-0516 EA 3/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.78	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-0517 EA 3/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.82	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-0518 EA 3/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.10	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-0519 EA 3/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.36	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-0520 EA 3/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.52	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-0521 EA 3/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.99	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
05 05 23 00-0522 EA 3/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.51	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
05 05 23 00-0523 EA 3/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.73	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
<b>05 05 23 00-0524 7/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)</b>		
05 05 23 00-0525 EA 7/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.95	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0526 EA 7/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	7.98	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0527 EA 7/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.31	
For >100 To 250, Deduct	-1.46	
For >250 To 500, Deduct	-1.83	
For >500, Deduct	-2.19	
05 05 23 00-0528 EA 7/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.52	
For >100 To 250, Deduct	-1.50	
For >250 To 500, Deduct	-1.87	
For >500, Deduct	-2.25	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0529	EA		7/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.89	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0530	EA		7/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.09	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0531	EA		7/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.31	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0532	EA		7/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.12	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0533	EA		7/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.76	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0534	EA		7/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.37	
			<i>For &gt;100 To 250, Deduct</i>	-1.57	
			<i>For &gt;250 To 500, Deduct</i>	-1.96	
			<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0535	EA		7/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.59	
			<i>For &gt;100 To 250, Deduct</i>	-1.57	
			<i>For &gt;250 To 500, Deduct</i>	-1.96	
			<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0536	EA		7/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.93	
			<i>For &gt;100 To 250, Deduct</i>	-1.57	
			<i>For &gt;250 To 500, Deduct</i>	-1.96	
			<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0537	EA		7/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.60	
			<i>For &gt;100 To 250, Deduct</i>	-1.61	
			<i>For &gt;250 To 500, Deduct</i>	-2.01	
			<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0538	EA		7/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.68	
			<i>For &gt;100 To 250, Deduct</i>	-1.61	
			<i>For &gt;250 To 500, Deduct</i>	-2.01	
			<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0539	EA		7/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.76	
			<i>For &gt;100 To 250, Deduct</i>	-1.61	
			<i>For &gt;250 To 500, Deduct</i>	-2.01	
			<i>For &gt;500, Deduct</i>	-2.41	
<b>05 05 23 00-0540</b>			<b>1/2" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> <small>(05 05 23 00-0472)</small>		
05 05 23 00-0541	EA		1/2" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.17	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0542	EA		1/2" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.40	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0543	EA		1/2" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.55	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0544	EA		1/2" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.89	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0545	EA		1/2" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.15	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0546	EA		1/2" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.74	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0547	EA		1/2" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.34	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0548	EA		1/2" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.68	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0549	EA		1/2" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.93	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	

05 Metals

05 05 Common Work Results For Metals

05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0550	EA		1/2" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.53	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.36	
05 05 23 00-0551	EA		1/2" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.28	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.36	
05 05 23 00-0552	EA		1/2" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.97	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.36	
05 05 23 00-0553	EA		1/2" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.74	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0554	EA		1/2" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.05	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0555	EA		1/2" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.90	
			For >100 To 250, Deduct	-1.61	
			For >250 To 500, Deduct	-2.01	
			For >500, Deduct	-2.41	
05 05 23 00-0556	EA		1/2" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.51	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.47	
05 05 23 00-0557	EA		1/2" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.13	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.47	
05 05 23 00-0558	EA		1/2" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.45	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.47	
05 05 23 00-0559	EA		1/2" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.98	
			For >100 To 250, Deduct	-1.64	
			For >250 To 500, Deduct	-2.06	
			For >500, Deduct	-2.47	
05 05 23 00-0560			<b>9/16" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> <small>(05 05 23 00-0472)</small>		
05 05 23 00-0561	EA		9/16" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.39	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.19	
05 05 23 00-0562	EA		9/16" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.53	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.19	
05 05 23 00-0563	EA		9/16" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	8.86	
			For >100 To 250, Deduct	-1.46	
			For >250 To 500, Deduct	-1.83	
			For >500, Deduct	-2.19	
05 05 23 00-0564	EA		9/16" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.53	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.25	
05 05 23 00-0565	EA		9/16" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.65	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.25	
05 05 23 00-0566	EA		9/16" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.13	
			For >100 To 250, Deduct	-1.50	
			For >250 To 500, Deduct	-1.87	
			For >500, Deduct	-2.25	
05 05 23 00-0567	EA		9/16" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.63	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.92	
			For >500, Deduct	-2.30	
05 05 23 00-0568	EA		9/16" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.22	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.92	
			For >500, Deduct	-2.30	
05 05 23 00-0569	EA		9/16" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.53	
			For >100 To 250, Deduct	-1.53	
			For >250 To 500, Deduct	-1.92	
			For >500, Deduct	-2.30	
05 05 23 00-0570	EA		9/16" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.96	
			For >100 To 250, Deduct	-1.57	
			For >250 To 500, Deduct	-1.96	
			For >500, Deduct	-2.36	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0571	EA			9/16" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.64	
				<i>For &gt;100 To 250, Deduct</i>	-1.57	
				<i>For &gt;250 To 500, Deduct</i>	-1.96	
				<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0572	EA			9/16" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	16.24	
				<i>For &gt;100 To 250, Deduct</i>	-1.57	
				<i>For &gt;250 To 500, Deduct</i>	-1.96	
				<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0573	EA			9/16" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.46	
				<i>For &gt;100 To 250, Deduct</i>	-1.61	
				<i>For &gt;250 To 500, Deduct</i>	-2.01	
				<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0574	EA			9/16" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	23.22	
				<i>For &gt;100 To 250, Deduct</i>	-1.61	
				<i>For &gt;250 To 500, Deduct</i>	-2.01	
				<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0575	EA			9/16" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.31	
				<i>For &gt;100 To 250, Deduct</i>	-1.61	
				<i>For &gt;250 To 500, Deduct</i>	-2.01	
				<i>For &gt;500, Deduct</i>	-2.41	
<b>05 05 23 00-0576</b>				<b>5/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts <small>(05 05 23 00-0472)</small></b>		
05 05 23 00-0577	EA			5/8" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	9.81	
				<i>For &gt;100 To 250, Deduct</i>	-1.64	
				<i>For &gt;250 To 500, Deduct</i>	-2.06	
				<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0578	EA			5/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	9.95	
				<i>For &gt;100 To 250, Deduct</i>	-1.64	
				<i>For &gt;250 To 500, Deduct</i>	-2.06	
				<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0579	EA			5/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.32	
				<i>For &gt;100 To 250, Deduct</i>	-1.64	
				<i>For &gt;250 To 500, Deduct</i>	-2.06	
				<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0580	EA			5/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	11.03	
				<i>For &gt;100 To 250, Deduct</i>	-1.68	
				<i>For &gt;250 To 500, Deduct</i>	-2.10	
				<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0581	EA			5/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.47	
				<i>For &gt;100 To 250, Deduct</i>	-1.68	
				<i>For &gt;250 To 500, Deduct</i>	-2.10	
				<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0582	EA			5/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	11.71	
				<i>For &gt;100 To 250, Deduct</i>	-1.68	
				<i>For &gt;250 To 500, Deduct</i>	-2.10	
				<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0583	EA			5/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.05	
				<i>For &gt;100 To 250, Deduct</i>	-1.72	
				<i>For &gt;250 To 500, Deduct</i>	-2.15	
				<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0584	EA			5/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	12.83	
				<i>For &gt;100 To 250, Deduct</i>	-1.72	
				<i>For &gt;250 To 500, Deduct</i>	-2.15	
				<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0585	EA			5/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.18	
				<i>For &gt;100 To 250, Deduct</i>	-1.72	
				<i>For &gt;250 To 500, Deduct</i>	-2.15	
				<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0586	EA			5/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	13.72	
				<i>For &gt;100 To 250, Deduct</i>	-1.75	
				<i>For &gt;250 To 500, Deduct</i>	-2.19	
				<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0587	EA			5/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.09	
				<i>For &gt;100 To 250, Deduct</i>	-1.75	
				<i>For &gt;250 To 500, Deduct</i>	-2.19	
				<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0588	EA			5/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	14.86	
				<i>For &gt;100 To 250, Deduct</i>	-1.75	
				<i>For &gt;250 To 500, Deduct</i>	-2.19	
				<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0589	EA			5/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.87	
				<i>For &gt;100 To 250, Deduct</i>	-1.79	
				<i>For &gt;250 To 500, Deduct</i>	-2.24	
				<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0590	EA			5/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	17.74	
				<i>For &gt;100 To 250, Deduct</i>	-1.79	
				<i>For &gt;250 To 500, Deduct</i>	-2.24	
				<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0591	EA			5/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.11	
				<i>For &gt;100 To 250, Deduct</i>	-1.79	
				<i>For &gt;250 To 500, Deduct</i>	-2.24	
				<i>For &gt;500, Deduct</i>	-2.68	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0592	EA	5/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.84	
		<i>For &gt;100 To 250, Deduct</i>	-1.82	
		<i>For &gt;250 To 500, Deduct</i>	-2.28	
		<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0593	EA	5/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.56	
		<i>For &gt;100 To 250, Deduct</i>	-1.82	
		<i>For &gt;250 To 500, Deduct</i>	-2.28	
		<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0594	EA	5/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.69	
		<i>For &gt;100 To 250, Deduct</i>	-1.82	
		<i>For &gt;250 To 500, Deduct</i>	-2.28	
		<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0595	EA	5/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.29	
		<i>For &gt;100 To 250, Deduct</i>	-1.82	
		<i>For &gt;250 To 500, Deduct</i>	-2.28	
		<i>For &gt;500, Deduct</i>	-2.74	
<b>05 05 23 00-0596 3/4" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)</b>				
05 05 23 00-0597	EA	3/4" Diameter x 1" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.63	
		<i>For &gt;100 To 250, Deduct</i>	-1.64	
		<i>For &gt;250 To 500, Deduct</i>	-2.06	
		<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0598	EA	3/4" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.78	
		<i>For &gt;100 To 250, Deduct</i>	-1.64	
		<i>For &gt;250 To 500, Deduct</i>	-2.06	
		<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0599	EA	3/4" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	10.89	
		<i>For &gt;100 To 250, Deduct</i>	-1.64	
		<i>For &gt;250 To 500, Deduct</i>	-2.06	
		<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0600	EA	3/4" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.29	
		<i>For &gt;100 To 250, Deduct</i>	-1.68	
		<i>For &gt;250 To 500, Deduct</i>	-2.10	
		<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0601	EA	3/4" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	11.61	
		<i>For &gt;100 To 250, Deduct</i>	-1.68	
		<i>For &gt;250 To 500, Deduct</i>	-2.10	
		<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0602	EA	3/4" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	12.55	
		<i>For &gt;100 To 250, Deduct</i>	-1.68	
		<i>For &gt;250 To 500, Deduct</i>	-2.10	
		<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0603	EA	3/4" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.12	
		<i>For &gt;100 To 250, Deduct</i>	-1.72	
		<i>For &gt;250 To 500, Deduct</i>	-2.15	
		<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0604	EA	3/4" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	13.20	
		<i>For &gt;100 To 250, Deduct</i>	-1.72	
		<i>For &gt;250 To 500, Deduct</i>	-2.15	
		<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0605	EA	3/4" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.47	
		<i>For &gt;100 To 250, Deduct</i>	-1.72	
		<i>For &gt;250 To 500, Deduct</i>	-2.15	
		<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0606	EA	3/4" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.11	
		<i>For &gt;100 To 250, Deduct</i>	-1.75	
		<i>For &gt;250 To 500, Deduct</i>	-2.19	
		<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0607	EA	3/4" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.77	
		<i>For &gt;100 To 250, Deduct</i>	-1.75	
		<i>For &gt;250 To 500, Deduct</i>	-2.19	
		<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0608	EA	3/4" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.02	
		<i>For &gt;100 To 250, Deduct</i>	-1.75	
		<i>For &gt;250 To 500, Deduct</i>	-2.19	
		<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0609	EA	3/4" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.72	
		<i>For &gt;100 To 250, Deduct</i>	-1.79	
		<i>For &gt;250 To 500, Deduct</i>	-2.24	
		<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0610	EA	3/4" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.38	
		<i>For &gt;100 To 250, Deduct</i>	-1.79	
		<i>For &gt;250 To 500, Deduct</i>	-2.24	
		<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0611	EA	3/4" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.72	
		<i>For &gt;100 To 250, Deduct</i>	-1.79	
		<i>For &gt;250 To 500, Deduct</i>	-2.24	
		<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0612	EA	3/4" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	21.54	
		<i>For &gt;100 To 250, Deduct</i>	-1.82	
		<i>For &gt;250 To 500, Deduct</i>	-2.28	
		<i>For &gt;500, Deduct</i>	-2.74	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0613 EA 3/4" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.75	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0614 EA 3/4" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	23.61	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0615 EA 3/4" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.93	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
<b>05 05 23 00-0616 7/8" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts</b> <small>(05 05 23 00-0472)</small>		
05 05 23 00-0617 EA 7/8" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	13.78	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0618 EA 7/8" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.19	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0619 EA 7/8" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	15.00	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0620 EA 7/8" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.23	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0621 EA 7/8" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	16.37	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0622 EA 7/8" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.81	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0623 EA 7/8" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	19.78	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0624 EA 7/8" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.54	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0625 EA 7/8" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	22.49	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0626 EA 7/8" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.60	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0627 EA 7/8" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	26.48	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0628 EA 7/8" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.62	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0629 EA 7/8" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	30.58	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0630 EA 7/8" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	31.78	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0631 EA 7/8" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	32.92	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0632 EA 7/8" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	33.26	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0633 EA 7/8" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt .....	33.56	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0634	EA		7/8" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	34.27	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
<b>05 05 23 00-0635</b>			<b>1" Diameter, Zinc Plated Steel, Grade 8, Hex Head Bolts (05 05 23 00-0472)</b>		
05 05 23 00-0636	EA		1" Diameter x 1-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	14.95	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0637	EA		1" Diameter x 2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	15.98	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0638	EA		1" Diameter x 2-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	16.63	
			<i>For &gt;100 To 250, Deduct</i>	-1.86	
			<i>For &gt;250 To 500, Deduct</i>	-2.33	
			<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0639	EA		1" Diameter x 3" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	17.40	
			<i>For &gt;100 To 250, Deduct</i>	-1.86	
			<i>For &gt;250 To 500, Deduct</i>	-2.33	
			<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0640	EA		1" Diameter x 3-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	18.85	
			<i>For &gt;100 To 250, Deduct</i>	-1.86	
			<i>For &gt;250 To 500, Deduct</i>	-2.33	
			<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0641	EA		1" Diameter x 4" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	19.41	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0642	EA		1" Diameter x 4-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	20.65	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0643	EA		1" Diameter x 5" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	22.31	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0644	EA		1" Diameter x 5-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.27	
			<i>For &gt;100 To 250, Deduct</i>	-1.94	
			<i>For &gt;250 To 500, Deduct</i>	-2.42	
			<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0645	EA		1" Diameter x 6" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	23.97	
			<i>For &gt;100 To 250, Deduct</i>	-1.94	
			<i>For &gt;250 To 500, Deduct</i>	-2.42	
			<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0646	EA		1" Diameter x 6-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	27.44	
			<i>For &gt;100 To 250, Deduct</i>	-1.94	
			<i>For &gt;250 To 500, Deduct</i>	-2.42	
			<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0647	EA		1" Diameter x 7" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	28.15	
			<i>For &gt;100 To 250, Deduct</i>	-1.97	
			<i>For &gt;250 To 500, Deduct</i>	-2.47	
			<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0648	EA		1" Diameter x 7-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.08	
			<i>For &gt;100 To 250, Deduct</i>	-1.97	
			<i>For &gt;250 To 500, Deduct</i>	-2.47	
			<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0649	EA		1" Diameter x 8" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	32.75	
			<i>For &gt;100 To 250, Deduct</i>	-1.97	
			<i>For &gt;250 To 500, Deduct</i>	-2.47	
			<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0650	EA		1" Diameter x 8-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	35.02	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0651	EA		1" Diameter x 9" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	36.15	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0652	EA		1" Diameter x 9-1/2" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	39.14	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0653	EA		1" Diameter x 10" Length, Yellow Zinc Plated Steel, Grade 8, Hex Head Bolt.....	40.96	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0654			Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0097)		
05 05 23 00-0655			1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts (05 05 23 00-0654)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0656 EA 1/4" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.69	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0657 EA 1/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.70	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0658 EA 1/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.72	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0659 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.93	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0660 EA 1/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.22	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0661 EA 1/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.34	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0662 EA 1/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.39	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0663 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.59	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0664 EA 1/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.74	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0665 EA 1/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.78	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0666 EA 1/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.06	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0667 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.19	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0668 EA 1/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.23	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0669 EA 1/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.55	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0670 EA 1/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.91	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0671 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.36	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
<b>05 05 23 00-0672 5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b>		
<small>(05 05 23 00-0654)</small>		
05 05 23 00-0673 EA 5/16" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.59	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0674 EA 5/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.00	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0675 EA 5/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.04	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0676 EA 5/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.05	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0677	EA		5/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.42	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0678	EA		5/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.80	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0679	EA		5/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.87	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0680	EA		5/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.16	
			<i>For &gt;100 To 250, Deduct</i>	-1.35	
			<i>For &gt;250 To 500, Deduct</i>	-1.69	
			<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0681	EA		5/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.20	
			<i>For &gt;100 To 250, Deduct</i>	-1.35	
			<i>For &gt;250 To 500, Deduct</i>	-1.69	
			<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0682	EA		5/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.50	
			<i>For &gt;100 To 250, Deduct</i>	-1.35	
			<i>For &gt;250 To 500, Deduct</i>	-1.69	
			<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0683	EA		5/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.77	
			<i>For &gt;100 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-1.73	
			<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0684	EA		5/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.89	
			<i>For &gt;100 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-1.73	
			<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0685	EA		5/16" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.18	
			<i>For &gt;100 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-1.73	
			<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0686	EA		5/16" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.97	
			<i>For &gt;100 To 250, Deduct</i>	-1.43	
			<i>For &gt;250 To 500, Deduct</i>	-1.78	
			<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0687	EA		5/16" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.45	
			<i>For &gt;100 To 250, Deduct</i>	-1.43	
			<i>For &gt;250 To 500, Deduct</i>	-1.78	
			<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0688	EA		5/16" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.89	
			<i>For &gt;100 To 250, Deduct</i>	-1.43	
			<i>For &gt;250 To 500, Deduct</i>	-1.78	
			<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0689			<b>3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small>		
05 05 23 00-0690	EA		3/8" Diameter x 1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.71	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0691	EA		3/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.81	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0692	EA		3/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	6.91	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0693	EA		3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.16	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0694	EA		3/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.45	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0695	EA		3/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.66	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0696	EA		3/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	7.80	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0697	EA		3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.18	
			<i>For &gt;100 To 250, Deduct</i>	-1.35	
			<i>For &gt;250 To 500, Deduct</i>	-1.69	
			<i>For &gt;500, Deduct</i>	-2.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0698 EA 3/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.29	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0699 EA 3/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.54	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0700 EA 3/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.83	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0701 EA 3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.17	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0702 EA 3/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.23	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0703 EA 3/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.45	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0704 EA 3/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.49	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0705 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.89	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
<b>05 05 23 00-0706 7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small>		
05 05 23 00-0707 EA 7/16" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.25	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0708 EA 7/16" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	8.70	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0709 EA 7/16" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.04	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0710 EA 7/16" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.80	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0711 EA 7/16" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.82	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0712 EA 7/16" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.86	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0713 EA 7/16" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.32	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0714 EA 7/16" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.64	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0715 EA 7/16" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.93	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0716 EA 7/16" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.43	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0717 EA 7/16" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.76	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
<b>05 05 23 00-0718 1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small>		

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0719	EA		1/2" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.05	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0720	EA		1/2" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.20	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0721	EA		1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	8.49	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0722	EA		1/2" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.01	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0723	EA		1/2" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.23	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0724	EA		1/2" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.65	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0725	EA		1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.90	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0726	EA		1/2" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.05	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0727	EA		1/2" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.38	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0728	EA		1/2" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.72	
			<i>For &gt;100 To 250, Deduct</i>	-1.57	
			<i>For &gt;250 To 500, Deduct</i>	-1.96	
			<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0729	EA		1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.08	
			<i>For &gt;100 To 250, Deduct</i>	-1.57	
			<i>For &gt;250 To 500, Deduct</i>	-1.96	
			<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0730	EA		1/2" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.12	
			<i>For &gt;100 To 250, Deduct</i>	-1.57	
			<i>For &gt;250 To 500, Deduct</i>	-1.96	
			<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0731	EA		1/2" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.37	
			<i>For &gt;100 To 250, Deduct</i>	-1.61	
			<i>For &gt;250 To 500, Deduct</i>	-2.01	
			<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0732	EA		1/2" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.47	
			<i>For &gt;100 To 250, Deduct</i>	-1.61	
			<i>For &gt;250 To 500, Deduct</i>	-2.01	
			<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0733	EA		1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.75	
			<i>For &gt;100 To 250, Deduct</i>	-1.61	
			<i>For &gt;250 To 500, Deduct</i>	-2.01	
			<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0734	EA		1/2" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.27	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0735	EA		1/2" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.49	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0736	EA		1/2" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.54	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0737	EA		1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.67	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0738			<b>5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small> .....		
05 05 23 00-0739	EA		5/8" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	9.49	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0740 EA 5/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.71	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0741 EA 5/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	9.87	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0742 EA 5/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.30	
<i>For &gt;100 To 250, Deduct</i>	-1.68	
<i>For &gt;250 To 500, Deduct</i>	-2.10	
<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0743 EA 5/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.63	
<i>For &gt;100 To 250, Deduct</i>	-1.68	
<i>For &gt;250 To 500, Deduct</i>	-2.10	
<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0744 EA 5/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.36	
<i>For &gt;100 To 250, Deduct</i>	-1.68	
<i>For &gt;250 To 500, Deduct</i>	-2.10	
<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0745 EA 5/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.66	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0746 EA 5/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	11.79	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0747 EA 5/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.02	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0748 EA 5/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.49	
<i>For &gt;100 To 250, Deduct</i>	-1.75	
<i>For &gt;250 To 500, Deduct</i>	-2.19	
<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0749 EA 5/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	12.75	
<i>For &gt;100 To 250, Deduct</i>	-1.75	
<i>For &gt;250 To 500, Deduct</i>	-2.19	
<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0750 EA 5/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.51	
<i>For &gt;100 To 250, Deduct</i>	-1.75	
<i>For &gt;250 To 500, Deduct</i>	-2.19	
<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0751 EA 5/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	13.74	
<i>For &gt;100 To 250, Deduct</i>	-1.79	
<i>For &gt;250 To 500, Deduct</i>	-2.24	
<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0752 EA 5/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.07	
<i>For &gt;100 To 250, Deduct</i>	-1.79	
<i>For &gt;250 To 500, Deduct</i>	-2.24	
<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0753 EA 5/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	15.46	
<i>For &gt;100 To 250, Deduct</i>	-1.79	
<i>For &gt;250 To 500, Deduct</i>	-2.24	
<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0754 EA 5/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.19	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0755 EA 5/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.82	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0756 EA 5/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.26	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0757 EA 5/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.36	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
<b>05 05 23 00-0758 3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small>		
05 05 23 00-0759 EA 3/4" Diameter x 1" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.57	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0760 EA 3/4" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	10.61	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0761 EA 3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	10.89	
For >100 To 250, Deduct	-1.64	
For >250 To 500, Deduct	-2.06	
For >500, Deduct	-2.47	
05 05 23 00-0762 EA 3/4" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	11.68	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-0763 EA 3/4" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	12.71	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-0764 EA 3/4" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.38	
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.10	
For >500, Deduct	-2.52	
05 05 23 00-0765 EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.91	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-2.57	
05 05 23 00-0766 EA 3/4" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.97	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-2.57	
05 05 23 00-0767 EA 3/4" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.11	
For >100 To 250, Deduct	-1.72	
For >250 To 500, Deduct	-2.15	
For >500, Deduct	-2.57	
05 05 23 00-0768 EA 3/4" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.39	
For >100 To 250, Deduct	-1.75	
For >250 To 500, Deduct	-2.19	
For >500, Deduct	-2.63	
05 05 23 00-0769 EA 3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	15.26	
For >100 To 250, Deduct	-1.75	
For >250 To 500, Deduct	-2.19	
For >500, Deduct	-2.63	
05 05 23 00-0770 EA 3/4" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	15.63	
For >100 To 250, Deduct	-1.75	
For >250 To 500, Deduct	-2.19	
For >500, Deduct	-2.63	
05 05 23 00-0771 EA 3/4" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	16.52	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.68	
05 05 23 00-0772 EA 3/4" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	16.64	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.68	
05 05 23 00-0773 EA 3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	17.00	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-2.68	
05 05 23 00-0774 EA 3/4" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	17.71	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-2.74	
05 05 23 00-0775 EA 3/4" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.09	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-2.74	
05 05 23 00-0776 EA 3/4" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.30	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-2.74	
05 05 23 00-0777 EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	18.41	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-2.74	
<b>05 05 23 00-0778 7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small>		
05 05 23 00-0779 EA 7/8" Diameter x 1-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	13.61	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-2.74	
05 05 23 00-0780 EA 7/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.04	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-2.74	
05 05 23 00-0781 EA 7/8" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt .....	14.47	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.33	
For >500, Deduct	-2.80	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0782 EA 7/8" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.69	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0783 EA 7/8" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.02	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0784 EA 7/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.63	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0785 EA 7/8" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.09	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0786 EA 7/8" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.68	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0787 EA 7/8" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.28	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0788 EA 7/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.74	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0789 EA 7/8" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	23.40	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0790 EA 7/8" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.09	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0791 EA 7/8" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.94	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0792 EA 7/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.14	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0793 EA 7/8" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.56	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0794 EA 7/8" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.04	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0795 EA 7/8" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	26.63	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0796 EA 7/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.18	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
<b>05 05 23 00-0797 1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolts</b> <small>(05 05 23 00-0654)</small>		
05 05 23 00-0798 EA 1" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.58	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0799 EA 1" Diameter x 2-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	16.91	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0800 EA 1" Diameter x 3" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	17.71	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0801 EA 1" Diameter x 3-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	18.34	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-0802 EA 1" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	19.95	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0803	EA 1" Diameter x 4-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	20.27	
	<i>For &gt;100 To 250, Deduct</i>	-1.90	
	<i>For &gt;250 To 500, Deduct</i>	-2.38	
	<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0804	EA 1" Diameter x 5" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.19	
	<i>For &gt;100 To 250, Deduct</i>	-1.90	
	<i>For &gt;250 To 500, Deduct</i>	-2.38	
	<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-0805	EA 1" Diameter x 5-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.47	
	<i>For &gt;100 To 250, Deduct</i>	-1.94	
	<i>For &gt;250 To 500, Deduct</i>	-2.42	
	<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0806	EA 1" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	21.81	
	<i>For &gt;100 To 250, Deduct</i>	-1.94	
	<i>For &gt;250 To 500, Deduct</i>	-2.42	
	<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0807	EA 1" Diameter x 6-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	24.95	
	<i>For &gt;100 To 250, Deduct</i>	-1.94	
	<i>For &gt;250 To 500, Deduct</i>	-2.42	
	<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-0808	EA 1" Diameter x 7" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	25.73	
	<i>For &gt;100 To 250, Deduct</i>	-1.97	
	<i>For &gt;250 To 500, Deduct</i>	-2.47	
	<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0809	EA 1" Diameter x 7-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	27.04	
	<i>For &gt;100 To 250, Deduct</i>	-1.97	
	<i>For &gt;250 To 500, Deduct</i>	-2.47	
	<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0810	EA 1" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.34	
	<i>For &gt;100 To 250, Deduct</i>	-1.97	
	<i>For &gt;250 To 500, Deduct</i>	-2.47	
	<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-0811	EA 1" Diameter x 8-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	28.91	
	<i>For &gt;100 To 250, Deduct</i>	-2.01	
	<i>For &gt;250 To 500, Deduct</i>	-2.51	
	<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0812	EA 1" Diameter x 9" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	29.97	
	<i>For &gt;100 To 250, Deduct</i>	-2.01	
	<i>For &gt;250 To 500, Deduct</i>	-2.51	
	<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0813	EA 1" Diameter x 9-1/2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	30.77	
	<i>For &gt;100 To 250, Deduct</i>	-2.01	
	<i>For &gt;250 To 500, Deduct</i>	-2.51	
	<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0814	EA 1" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Hex Head Bolt.....	31.96	
	<i>For &gt;100 To 250, Deduct</i>	-2.01	
	<i>For &gt;250 To 500, Deduct</i>	-2.51	
	<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-0815	304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0097)</small>		
05 05 23 00-0816	1/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small>		
05 05 23 00-0817	EA 1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.55	
	<i>For &gt;100 To 250, Deduct</i>	-1.28	
	<i>For &gt;250 To 500, Deduct</i>	-1.60	
	<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0818	EA 1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.62	
	<i>For &gt;100 To 250, Deduct</i>	-1.28	
	<i>For &gt;250 To 500, Deduct</i>	-1.60	
	<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0819	EA 1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.70	
	<i>For &gt;100 To 250, Deduct</i>	-1.28	
	<i>For &gt;250 To 500, Deduct</i>	-1.60	
	<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0820	EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	6.78	
	<i>For &gt;100 To 250, Deduct</i>	-1.28	
	<i>For &gt;250 To 500, Deduct</i>	-1.60	
	<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0821	EA 1/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.05	
	<i>For &gt;100 To 250, Deduct</i>	-1.31	
	<i>For &gt;250 To 500, Deduct</i>	-1.64	
	<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0822	EA 1/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.18	
	<i>For &gt;100 To 250, Deduct</i>	-1.31	
	<i>For &gt;250 To 500, Deduct</i>	-1.64	
	<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0823	EA 1/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.33	
	<i>For &gt;100 To 250, Deduct</i>	-1.31	
	<i>For &gt;250 To 500, Deduct</i>	-1.64	
	<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0824	EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.62	
	<i>For &gt;100 To 250, Deduct</i>	-1.35	
	<i>For &gt;250 To 500, Deduct</i>	-1.69	
	<i>For &gt;500, Deduct</i>	-2.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0825 EA 1/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt.....	7.81	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0826 EA 1/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.98	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0827 EA 1/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.30	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0828 EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.58	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0829 EA 1/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	11.97	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0830 EA 1/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.82	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0831 EA 1/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.98	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0832 EA 1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	14.36	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
<b>05 05 23 00-0833 5/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0815)</small>		
05 05 23 00-0834 EA 5/16" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	6.67	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0835 EA 5/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	6.73	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0836 EA 5/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	6.85	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0837 EA 5/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	6.95	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0838 EA 5/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.31	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0839 EA 5/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.37	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0840 EA 5/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.68	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0841 EA 5/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.08	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0842 EA 5/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.44	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0843 EA 5/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.61	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0844 EA 5/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	9.33	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0845 EA 5/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	10.22	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0846	EA		5/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	12.23	
			<i>For &gt;100 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-1.73	
			<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0847	EA		5/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	15.69	
			<i>For &gt;100 To 250, Deduct</i>	-1.43	
			<i>For &gt;250 To 500, Deduct</i>	-1.78	
			<i>For &gt;500, Deduct</i>	-2.14	
<b>05 05 23 00-0848</b>			<b>3/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0815)</small>		
05 05 23 00-0849	EA		3/8" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	6.82	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0850	EA		3/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	6.90	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0851	EA		3/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.09	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0852	EA		3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.33	
			<i>For &gt;100 To 250, Deduct</i>	-1.28	
			<i>For &gt;250 To 500, Deduct</i>	-1.60	
			<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-0853	EA		3/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.63	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0854	EA		3/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	7.83	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0855	EA		3/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.08	
			<i>For &gt;100 To 250, Deduct</i>	-1.31	
			<i>For &gt;250 To 500, Deduct</i>	-1.64	
			<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0856	EA		3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.49	
			<i>For &gt;100 To 250, Deduct</i>	-1.35	
			<i>For &gt;250 To 500, Deduct</i>	-1.69	
			<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0857	EA		3/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.79	
			<i>For &gt;100 To 250, Deduct</i>	-1.35	
			<i>For &gt;250 To 500, Deduct</i>	-1.69	
			<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0858	EA		3/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	9.45	
			<i>For &gt;100 To 250, Deduct</i>	-1.35	
			<i>For &gt;250 To 500, Deduct</i>	-1.69	
			<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0859	EA		3/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	9.71	
			<i>For &gt;100 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-1.73	
			<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0860	EA		3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	10.26	
			<i>For &gt;100 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-1.73	
			<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0861	EA		3/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	11.43	
			<i>For &gt;100 To 250, Deduct</i>	-1.39	
			<i>For &gt;250 To 500, Deduct</i>	-1.73	
			<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-0862	EA		3/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	11.90	
			<i>For &gt;100 To 250, Deduct</i>	-1.43	
			<i>For &gt;250 To 500, Deduct</i>	-1.78	
			<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0863	EA		3/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	12.07	
			<i>For &gt;100 To 250, Deduct</i>	-1.43	
			<i>For &gt;250 To 500, Deduct</i>	-1.78	
			<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-0864	EA		3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.24	
			<i>For &gt;100 To 250, Deduct</i>	-1.43	
			<i>For &gt;250 To 500, Deduct</i>	-1.78	
			<i>For &gt;500, Deduct</i>	-2.14	
<b>05 05 23 00-0865</b>			<b>7/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0815)</small>		
05 05 23 00-0866	EA		7/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.36	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500, Deduct</i>	-2.19	



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0867	EA 7/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.44	
	<i>For &gt;100 To 250, Deduct</i>	-1.46	
	<i>For &gt;250 To 500, Deduct</i>	-1.83	
	<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0868	EA 7/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.75	
	<i>For &gt;100 To 250, Deduct</i>	-1.46	
	<i>For &gt;250 To 500, Deduct</i>	-1.83	
	<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0869	EA 7/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	9.12	
	<i>For &gt;100 To 250, Deduct</i>	-1.50	
	<i>For &gt;250 To 500, Deduct</i>	-1.87	
	<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0870	EA 7/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	9.49	
	<i>For &gt;100 To 250, Deduct</i>	-1.50	
	<i>For &gt;250 To 500, Deduct</i>	-1.87	
	<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0871	EA 7/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	10.11	
	<i>For &gt;100 To 250, Deduct</i>	-1.50	
	<i>For &gt;250 To 500, Deduct</i>	-1.87	
	<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0872	EA 7/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	10.57	
	<i>For &gt;100 To 250, Deduct</i>	-1.53	
	<i>For &gt;250 To 500, Deduct</i>	-1.92	
	<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0873	EA 7/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	11.29	
	<i>For &gt;100 To 250, Deduct</i>	-1.53	
	<i>For &gt;250 To 500, Deduct</i>	-1.92	
	<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0874	EA 7/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	11.61	
	<i>For &gt;100 To 250, Deduct</i>	-1.53	
	<i>For &gt;250 To 500, Deduct</i>	-1.92	
	<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0875	EA 7/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	12.78	
	<i>For &gt;100 To 250, Deduct</i>	-1.57	
	<i>For &gt;250 To 500, Deduct</i>	-1.96	
	<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0876	EA 7/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.89	
	<i>For &gt;100 To 250, Deduct</i>	-1.57	
	<i>For &gt;250 To 500, Deduct</i>	-1.96	
	<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0877	EA 7/16" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	14.04	
	<i>For &gt;100 To 250, Deduct</i>	-1.57	
	<i>For &gt;250 To 500, Deduct</i>	-1.96	
	<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-0878	EA 7/16" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	14.35	
	<i>For &gt;100 To 250, Deduct</i>	-1.61	
	<i>For &gt;250 To 500, Deduct</i>	-2.01	
	<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-0879	1/2" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0815)</small> .....	8.35	
05 05 23 00-0880	EA 1/2" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.35	
	<i>For &gt;100 To 250, Deduct</i>	-1.46	
	<i>For &gt;250 To 500, Deduct</i>	-1.83	
	<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0881	EA 1/2" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.44	
	<i>For &gt;100 To 250, Deduct</i>	-1.46	
	<i>For &gt;250 To 500, Deduct</i>	-1.83	
	<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0882	EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	8.93	
	<i>For &gt;100 To 250, Deduct</i>	-1.46	
	<i>For &gt;250 To 500, Deduct</i>	-1.83	
	<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-0883	EA 1/2" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	9.30	
	<i>For &gt;100 To 250, Deduct</i>	-1.50	
	<i>For &gt;250 To 500, Deduct</i>	-1.87	
	<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0884	EA 1/2" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	9.74	
	<i>For &gt;100 To 250, Deduct</i>	-1.50	
	<i>For &gt;250 To 500, Deduct</i>	-1.87	
	<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0885	EA 1/2" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	9.98	
	<i>For &gt;100 To 250, Deduct</i>	-1.50	
	<i>For &gt;250 To 500, Deduct</i>	-1.87	
	<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-0886	EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	10.45	
	<i>For &gt;100 To 250, Deduct</i>	-1.53	
	<i>For &gt;250 To 500, Deduct</i>	-1.92	
	<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-0887	EA 1/2" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	10.67	
	<i>For &gt;100 To 250, Deduct</i>	-1.53	
	<i>For &gt;250 To 500, Deduct</i>	-1.92	
	<i>For &gt;500, Deduct</i>	-2.30	

05 Metals

05 05 Common Work Results For Metals

05 05 23 Metal Fastenings



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0888	EA	1/2" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	11.82	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-0889	EA	1/2" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	12.32	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.36	
05 05 23 00-0890	EA	1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	12.84	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.36	
05 05 23 00-0891	EA	1/2" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.44	
		For >100 To 250, Deduct	-1.57	
		For >250 To 500, Deduct	-1.96	
		For >500, Deduct	-2.36	
05 05 23 00-0892	EA	1/2" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	14.49	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-0893	EA	1/2" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	14.84	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-0894	EA	1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	15.40	
		For >100 To 250, Deduct	-1.61	
		For >250 To 500, Deduct	-2.01	
		For >500, Deduct	-2.41	
05 05 23 00-0895	EA	1/2" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	18.31	
		For >100 To 250, Deduct	-1.64	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.47	
05 05 23 00-0896	EA	1/2" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	18.53	
		For >100 To 250, Deduct	-1.64	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.47	
05 05 23 00-0897	EA	1/2" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	20.07	
		For >100 To 250, Deduct	-1.64	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.47	
05 05 23 00-0898	EA	1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	21.60	
		For >100 To 250, Deduct	-1.64	
		For >250 To 500, Deduct	-2.06	
		For >500, Deduct	-2.47	
<b>05 05 23 00-0899</b>		<b>9/16" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0815)</small>		
05 05 23 00-0900	EA	9/16" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	10.90	
		For >100 To 250, Deduct	-1.46	
		For >250 To 500, Deduct	-1.83	
		For >500, Deduct	-2.19	
05 05 23 00-0901	EA	9/16" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	11.91	
		For >100 To 250, Deduct	-1.46	
		For >250 To 500, Deduct	-1.83	
		For >500, Deduct	-2.19	
05 05 23 00-0902	EA	9/16" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.67	
		For >100 To 250, Deduct	-1.46	
		For >250 To 500, Deduct	-1.83	
		For >500, Deduct	-2.19	
05 05 23 00-0903	EA	9/16" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	14.21	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.87	
		For >500, Deduct	-2.25	
05 05 23 00-0904	EA	9/16" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	14.83	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.87	
		For >500, Deduct	-2.25	
05 05 23 00-0905	EA	9/16" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	15.93	
		For >100 To 250, Deduct	-1.50	
		For >250 To 500, Deduct	-1.87	
		For >500, Deduct	-2.25	
05 05 23 00-0906	EA	9/16" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	17.72	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-0907	EA	9/16" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	17.97	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	
05 05 23 00-0908	EA	9/16" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	20.28	
		For >100 To 250, Deduct	-1.53	
		For >250 To 500, Deduct	-1.92	
		For >500, Deduct	-2.30	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0909	EA			9/16" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....21.55 <i>For &gt;100 To 250, Deduct</i> -1.57 <i>For &gt;250 To 500, Deduct</i> -1.96 <i>For &gt;500, Deduct</i> -2.36		
05 05 23 00-0910	EA			9/16" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....22.79 <i>For &gt;100 To 250, Deduct</i> -1.57 <i>For &gt;250 To 500, Deduct</i> -1.96 <i>For &gt;500, Deduct</i> -2.36		
<b>05 05 23 00-0911</b>				<b>5/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0915)</small>		
05 05 23 00-0912	EA			5/8" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 10.12 <i>For &gt;100 To 250, Deduct</i> -1.64 <i>For &gt;250 To 500, Deduct</i> -2.06 <i>For &gt;500, Deduct</i> -2.47		
05 05 23 00-0913	EA			5/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 10.35 <i>For &gt;100 To 250, Deduct</i> -1.64 <i>For &gt;250 To 500, Deduct</i> -2.06 <i>For &gt;500, Deduct</i> -2.47		
05 05 23 00-0914	EA			5/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 11.31 <i>For &gt;100 To 250, Deduct</i> -1.64 <i>For &gt;250 To 500, Deduct</i> -2.06 <i>For &gt;500, Deduct</i> -2.47		
05 05 23 00-0915	EA			5/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 11.65 <i>For &gt;100 To 250, Deduct</i> -1.68 <i>For &gt;250 To 500, Deduct</i> -2.10 <i>For &gt;500, Deduct</i> -2.52		
05 05 23 00-0916	EA			5/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 12.11 <i>For &gt;100 To 250, Deduct</i> -1.68 <i>For &gt;250 To 500, Deduct</i> -2.10 <i>For &gt;500, Deduct</i> -2.52		
05 05 23 00-0917	EA			5/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 12.77 <i>For &gt;100 To 250, Deduct</i> -1.68 <i>For &gt;250 To 500, Deduct</i> -2.10 <i>For &gt;500, Deduct</i> -2.52		
05 05 23 00-0918	EA			5/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 13.77 <i>For &gt;100 To 250, Deduct</i> -1.72 <i>For &gt;250 To 500, Deduct</i> -2.15 <i>For &gt;500, Deduct</i> -2.57		
05 05 23 00-0919	EA			5/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 13.78 <i>For &gt;100 To 250, Deduct</i> -1.72 <i>For &gt;250 To 500, Deduct</i> -2.15 <i>For &gt;500, Deduct</i> -2.57		
05 05 23 00-0920	EA			5/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 14.51 <i>For &gt;100 To 250, Deduct</i> -1.72 <i>For &gt;250 To 500, Deduct</i> -2.15 <i>For &gt;500, Deduct</i> -2.57		
05 05 23 00-0921	EA			5/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 15.11 <i>For &gt;100 To 250, Deduct</i> -1.75 <i>For &gt;250 To 500, Deduct</i> -2.19 <i>For &gt;500, Deduct</i> -2.63		
05 05 23 00-0922	EA			5/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 15.77 <i>For &gt;100 To 250, Deduct</i> -1.75 <i>For &gt;250 To 500, Deduct</i> -2.19 <i>For &gt;500, Deduct</i> -2.63		
05 05 23 00-0923	EA			5/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 18.19 <i>For &gt;100 To 250, Deduct</i> -1.75 <i>For &gt;250 To 500, Deduct</i> -2.19 <i>For &gt;500, Deduct</i> -2.63		
05 05 23 00-0924	EA			5/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 19.70 <i>For &gt;100 To 250, Deduct</i> -1.79 <i>For &gt;250 To 500, Deduct</i> -2.24 <i>For &gt;500, Deduct</i> -2.68		
05 05 23 00-0925	EA			5/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 20.79 <i>For &gt;100 To 250, Deduct</i> -1.79 <i>For &gt;250 To 500, Deduct</i> -2.24 <i>For &gt;500, Deduct</i> -2.68		
05 05 23 00-0926	EA			5/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 21.29 <i>For &gt;100 To 250, Deduct</i> -1.79 <i>For &gt;250 To 500, Deduct</i> -2.24 <i>For &gt;500, Deduct</i> -2.68		
05 05 23 00-0927	EA			5/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 23.49 <i>For &gt;100 To 250, Deduct</i> -1.82 <i>For &gt;250 To 500, Deduct</i> -2.28 <i>For &gt;500, Deduct</i> -2.74		
05 05 23 00-0928	EA			5/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 24.14 <i>For &gt;100 To 250, Deduct</i> -1.82 <i>For &gt;250 To 500, Deduct</i> -2.28 <i>For &gt;500, Deduct</i> -2.74		
05 05 23 00-0929	EA			5/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt ..... 27.02 <i>For &gt;100 To 250, Deduct</i> -1.82 <i>For &gt;250 To 500, Deduct</i> -2.28 <i>For &gt;500, Deduct</i> -2.74		



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 05 23 00-0930	EA 5/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	28.20	
	<i>For &gt;100 To 250, Deduct</i>	-1.82	
	<i>For &gt;250 To 500, Deduct</i>	-2.28	
	<i>For &gt;500, Deduct</i>	-2.74	
<b>05 05 23 00-0931</b>	<b>3/4" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0815)</small>		
05 05 23 00-0932	EA 3/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	11.17	
	<i>For &gt;100 To 250, Deduct</i>	-1.64	
	<i>For &gt;250 To 500, Deduct</i>	-2.06	
	<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0933	EA 3/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	11.62	
	<i>For &gt;100 To 250, Deduct</i>	-1.64	
	<i>For &gt;250 To 500, Deduct</i>	-2.06	
	<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0934	EA 3/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	12.21	
	<i>For &gt;100 To 250, Deduct</i>	-1.64	
	<i>For &gt;250 To 500, Deduct</i>	-2.06	
	<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-0935	EA 3/4" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.04	
	<i>For &gt;100 To 250, Deduct</i>	-1.68	
	<i>For &gt;250 To 500, Deduct</i>	-2.10	
	<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0936	EA 3/4" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	13.69	
	<i>For &gt;100 To 250, Deduct</i>	-1.68	
	<i>For &gt;250 To 500, Deduct</i>	-2.10	
	<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0937	EA 3/4" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	14.80	
	<i>For &gt;100 To 250, Deduct</i>	-1.68	
	<i>For &gt;250 To 500, Deduct</i>	-2.10	
	<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-0938	EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	15.63	
	<i>For &gt;100 To 250, Deduct</i>	-1.72	
	<i>For &gt;250 To 500, Deduct</i>	-2.15	
	<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0939	EA 3/4" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	16.66	
	<i>For &gt;100 To 250, Deduct</i>	-1.72	
	<i>For &gt;250 To 500, Deduct</i>	-2.15	
	<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0940	EA 3/4" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	17.48	
	<i>For &gt;100 To 250, Deduct</i>	-1.72	
	<i>For &gt;250 To 500, Deduct</i>	-2.15	
	<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-0941	EA 3/4" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	18.51	
	<i>For &gt;100 To 250, Deduct</i>	-1.75	
	<i>For &gt;250 To 500, Deduct</i>	-2.19	
	<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0942	EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	19.46	
	<i>For &gt;100 To 250, Deduct</i>	-1.75	
	<i>For &gt;250 To 500, Deduct</i>	-2.19	
	<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0943	EA 3/4" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	21.26	
	<i>For &gt;100 To 250, Deduct</i>	-1.75	
	<i>For &gt;250 To 500, Deduct</i>	-2.19	
	<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-0944	EA 3/4" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	26.20	
	<i>For &gt;100 To 250, Deduct</i>	-1.79	
	<i>For &gt;250 To 500, Deduct</i>	-2.24	
	<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0945	EA 3/4" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	27.72	
	<i>For &gt;100 To 250, Deduct</i>	-1.79	
	<i>For &gt;250 To 500, Deduct</i>	-2.24	
	<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0946	EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	30.97	
	<i>For &gt;100 To 250, Deduct</i>	-1.79	
	<i>For &gt;250 To 500, Deduct</i>	-2.24	
	<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-0947	EA 3/4" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	31.30	
	<i>For &gt;100 To 250, Deduct</i>	-1.82	
	<i>For &gt;250 To 500, Deduct</i>	-2.28	
	<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0948	EA 3/4" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	31.82	
	<i>For &gt;100 To 250, Deduct</i>	-1.82	
	<i>For &gt;250 To 500, Deduct</i>	-2.28	
	<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0949	EA 3/4" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	33.20	
	<i>For &gt;100 To 250, Deduct</i>	-1.82	
	<i>For &gt;250 To 500, Deduct</i>	-2.28	
	<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-0950	EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	34.27	
	<i>For &gt;100 To 250, Deduct</i>	-1.82	
	<i>For &gt;250 To 500, Deduct</i>	-2.28	
	<i>For &gt;500, Deduct</i>	-2.74	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>05 05 23 00-0951</b> <b>7/8" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0815)</small>		
05 05 23 00-0952     EA    7/8" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	14.90	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-2.74	
05 05 23 00-0953     EA    7/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	16.02	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-2.74	
05 05 23 00-0954     EA    7/8" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	17.08	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.33	
For >500, Deduct	-2.80	
05 05 23 00-0955     EA    7/8" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	18.22	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.33	
For >500, Deduct	-2.80	
05 05 23 00-0956     EA    7/8" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	18.59	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.33	
For >500, Deduct	-2.80	
05 05 23 00-0957     EA    7/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	19.71	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.85	
05 05 23 00-0958     EA    7/8" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	20.07	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.85	
05 05 23 00-0959     EA    7/8" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	22.55	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.85	
05 05 23 00-0960     EA    7/8" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	23.10	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.90	
05 05 23 00-0961     EA    7/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	24.06	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.90	
05 05 23 00-0962     EA    7/8" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	29.32	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.90	
05 05 23 00-0963     EA    7/8" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	31.51	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-2.96	
05 05 23 00-0964     EA    7/8" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	33.87	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-2.96	
05 05 23 00-0965     EA    7/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	35.77	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-2.96	
05 05 23 00-0966     EA    7/8" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	41.72	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0967     EA    7/8" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	46.35	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0968     EA    7/8" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	48.49	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0969     EA    7/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	50.62	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
<b>05 05 23 00-0970</b> <b>1" Diameter, 304/18-8 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0815)</small>		
05 05 23 00-0971     EA    1" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	17.62	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-2.74	
05 05 23 00-0972     EA    1" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	18.44	
For >100 To 250, Deduct	-1.82	
For >250 To 500, Deduct	-2.28	
For >500, Deduct	-2.74	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0973 EA 1" Diameter x 2-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	19.86	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.33	
For >500, Deduct	-2.80	
05 05 23 00-0974 EA 1" Diameter x 3" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	20.90	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.33	
For >500, Deduct	-2.80	
05 05 23 00-0975 EA 1" Diameter x 3-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	22.59	
For >100 To 250, Deduct	-1.86	
For >250 To 500, Deduct	-2.33	
For >500, Deduct	-2.80	
05 05 23 00-0976 EA 1" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	24.68	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.85	
05 05 23 00-0977 EA 1" Diameter x 4-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	25.87	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.85	
05 05 23 00-0978 EA 1" Diameter x 5" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	27.62	
For >100 To 250, Deduct	-1.90	
For >250 To 500, Deduct	-2.38	
For >500, Deduct	-2.85	
05 05 23 00-0979 EA 1" Diameter x 5-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	29.44	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.90	
05 05 23 00-0980 EA 1" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	29.54	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.90	
05 05 23 00-0981 EA 1" Diameter x 6-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	34.23	
For >100 To 250, Deduct	-1.94	
For >250 To 500, Deduct	-2.42	
For >500, Deduct	-2.90	
05 05 23 00-0982 EA 1" Diameter x 7" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	40.35	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-2.96	
05 05 23 00-0983 EA 1" Diameter x 7-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	41.23	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-2.96	
05 05 23 00-0984 EA 1" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	42.12	
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-2.96	
05 05 23 00-0985 EA 1" Diameter x 8-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	44.07	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0986 EA 1" Diameter x 9" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	46.78	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0987 EA 1" Diameter x 9-1/2" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	59.09	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
05 05 23 00-0988 EA 1" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Head Bolt .....	73.44	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.01	
<b>05 05 23 00-0989 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0977)</b>		
<b>05 05 23 00-0990 1/4" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)</b>		
05 05 23 00-0991 EA 1/4" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	6.68	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0992 EA 1/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt .....	6.81	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0993 EA 1/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	6.90	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-0994 EA 1/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....	6.96	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-0995 EA 1/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	7.33	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0996 EA 1/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....	7.50	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0997 EA 1/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	7.67	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-0998 EA 1/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....	7.98	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-0999 EA 1/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	8.12	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-1000 EA 1/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....	8.18	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	
05 05 23 00-1001 EA 1/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	8.79	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-1002 EA 1/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....	8.91	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-1003 EA 1/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	13.22	
<i>For &gt;100 To 250, Deduct</i>	-1.39	
<i>For &gt;250 To 500, Deduct</i>	-1.73	
<i>For &gt;500, Deduct</i>	-2.08	
05 05 23 00-1004 EA 1/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt .....	18.65	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-1005 EA 1/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	30.15	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-1006 EA 1/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt .....	32.78	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
<b>05 05 23 00-1007 5/16" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0989)</small> .....	<b>6.85</b>	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-1009 EA 5/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt .....	7.00	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-1010 EA 5/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	7.24	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-1011 EA 5/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....	7.43	
<i>For &gt;100 To 250, Deduct</i>	-1.28	
<i>For &gt;250 To 500, Deduct</i>	-1.60	
<i>For &gt;500, Deduct</i>	-1.92	
05 05 23 00-1012 EA 5/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	7.69	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-1013 EA 5/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....	8.07	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-1014 EA 5/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	8.34	
<i>For &gt;100 To 250, Deduct</i>	-1.31	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-1.97	
05 05 23 00-1015 EA 5/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....	8.63	
<i>For &gt;100 To 250, Deduct</i>	-1.35	
<i>For &gt;250 To 500, Deduct</i>	-1.69	
<i>For &gt;500, Deduct</i>	-2.03	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1016 EA 5/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	9.20	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-1017 EA 5/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	9.31	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-1018 EA 5/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	9.89	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-1019 EA 5/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	10.33	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-1020 EA 5/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	14.00	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-1021 EA 5/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	19.41	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	
<b>05 05 23 00-1022 3/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0989)</b>		
05 05 23 00-1023 EA 3/8" Diameter x 1/2" Length, 316 Stainless Steel, Hex Head Bolt.....	7.24	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-1024 EA 3/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	7.30	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-1025 EA 3/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	7.53	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-1026 EA 3/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	8.08	
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-1.92	
05 05 23 00-1027 EA 3/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	8.45	
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-1.64	
For >500, Deduct	-1.97	
05 05 23 00-1028 EA 3/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	8.55	
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-1.64	
For >500, Deduct	-1.97	
05 05 23 00-1029 EA 3/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	9.03	
For >100 To 250, Deduct	-1.31	
For >250 To 500, Deduct	-1.64	
For >500, Deduct	-1.97	
05 05 23 00-1030 EA 3/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	9.28	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-1031 EA 3/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	9.58	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-1032 EA 3/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	9.78	
For >100 To 250, Deduct	-1.35	
For >250 To 500, Deduct	-1.69	
For >500, Deduct	-2.03	
05 05 23 00-1033 EA 3/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	10.62	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-1034 EA 3/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	11.43	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-1035 EA 3/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	11.46	
For >100 To 250, Deduct	-1.39	
For >250 To 500, Deduct	-1.73	
For >500, Deduct	-2.08	
05 05 23 00-1036 EA 3/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	13.71	
For >100 To 250, Deduct	-1.43	
For >250 To 500, Deduct	-1.78	
For >500, Deduct	-2.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1037 EA 3/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	17.03	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
05 05 23 00-1038 EA 3/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt .....	20.62	
<i>For &gt;100 To 250, Deduct</i>	-1.43	
<i>For &gt;250 To 500, Deduct</i>	-1.78	
<i>For &gt;500, Deduct</i>	-2.14	
<b>05 05 23 00-1039 7/16" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0989)</small>		
05 05 23 00-1040 EA 7/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt .....	9.08	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-1041 EA 7/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	9.42	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-1042 EA 7/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....	10.07	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-1043 EA 7/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	10.80	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-1044 EA 7/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....	11.42	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-1045 EA 7/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	12.44	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-1046 EA 7/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....	13.59	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-1047 EA 7/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	13.77	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-1048 EA 7/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....	14.14	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-1049 EA 7/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	14.57	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-1050 EA 7/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....	14.83	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-1051 EA 7/16" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	15.10	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-1052 EA 7/16" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt .....	15.49	
<i>For &gt;100 To 250, Deduct</i>	-1.61	
<i>For &gt;250 To 500, Deduct</i>	-2.01	
<i>For &gt;500, Deduct</i>	-2.41	
<b>05 05 23 00-1053 1/2" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0989)</small>		
05 05 23 00-1054 EA 1/2" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt .....	9.06	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-1055 EA 1/2" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	9.43	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-1056 EA 1/2" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....	9.95	
<i>For &gt;100 To 250, Deduct</i>	-1.46	
<i>For &gt;250 To 500, Deduct</i>	-1.83	
<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-1057 EA 1/2" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	10.75	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1058	EA		1/2" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	11.33	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-1059	EA		1/2" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	11.47	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-1060	EA		1/2" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	11.89	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-1061	EA		1/2" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	12.99	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-1062	EA		1/2" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	15.24	
			<i>For &gt;100 To 250, Deduct</i>	-1.53	
			<i>For &gt;250 To 500, Deduct</i>	-1.92	
			<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-1063	EA		1/2" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	15.58	
			<i>For &gt;100 To 250, Deduct</i>	-1.57	
			<i>For &gt;250 To 500, Deduct</i>	-1.96	
			<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-1064	EA		1/2" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	15.94	
			<i>For &gt;100 To 250, Deduct</i>	-1.57	
			<i>For &gt;250 To 500, Deduct</i>	-1.96	
			<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-1065	EA		1/2" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	18.71	
			<i>For &gt;100 To 250, Deduct</i>	-1.57	
			<i>For &gt;250 To 500, Deduct</i>	-1.96	
			<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-1066	EA		1/2" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	20.75	
			<i>For &gt;100 To 250, Deduct</i>	-1.61	
			<i>For &gt;250 To 500, Deduct</i>	-2.01	
			<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-1067	EA		1/2" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	21.95	
			<i>For &gt;100 To 250, Deduct</i>	-1.61	
			<i>For &gt;250 To 500, Deduct</i>	-2.01	
			<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-1068	EA		1/2" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	23.94	
			<i>For &gt;100 To 250, Deduct</i>	-1.61	
			<i>For &gt;250 To 500, Deduct</i>	-2.01	
			<i>For &gt;500, Deduct</i>	-2.41	
05 05 23 00-1069	EA		1/2" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	29.39	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-1070	EA		1/2" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	32.78	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-1071	EA		1/2" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	33.34	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-1072	EA		1/2" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	34.20	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-1073			<b>9/16" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0988)</b> .....	18.36	
05 05 23 00-1074	EA		9/16" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	18.36	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-1075	EA		9/16" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	19.58	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-1076	EA		9/16" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	23.66	
			<i>For &gt;100 To 250, Deduct</i>	-1.46	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500, Deduct</i>	-2.19	
05 05 23 00-1077	EA		9/16" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	26.13	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-1078	EA		9/16" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	28.54	
			<i>For &gt;100 To 250, Deduct</i>	-1.50	
			<i>For &gt;250 To 500, Deduct</i>	-1.87	
			<i>For &gt;500, Deduct</i>	-2.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1079 EA 9/16" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	30.95	
<i>For &gt;100 To 250, Deduct</i>	-1.50	
<i>For &gt;250 To 500, Deduct</i>	-1.87	
<i>For &gt;500, Deduct</i>	-2.25	
05 05 23 00-1080 EA 9/16" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....	32.64	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-1081 EA 9/16" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	34.63	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-1082 EA 9/16" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....	36.39	
<i>For &gt;100 To 250, Deduct</i>	-1.53	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.30	
05 05 23 00-1083 EA 9/16" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	37.10	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
05 05 23 00-1084 EA 9/16" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....	38.66	
<i>For &gt;100 To 250, Deduct</i>	-1.57	
<i>For &gt;250 To 500, Deduct</i>	-1.96	
<i>For &gt;500, Deduct</i>	-2.36	
<b>05 05 23 00-1085 5/8" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0989)</small>		
05 05 23 00-1086 EA 5/8" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt .....	11.86	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-1087 EA 5/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	11.97	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-1088 EA 5/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....	12.00	
<i>For &gt;100 To 250, Deduct</i>	-1.64	
<i>For &gt;250 To 500, Deduct</i>	-2.06	
<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-1089 EA 5/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	12.88	
<i>For &gt;100 To 250, Deduct</i>	-1.68	
<i>For &gt;250 To 500, Deduct</i>	-2.10	
<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-1090 EA 5/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....	13.60	
<i>For &gt;100 To 250, Deduct</i>	-1.68	
<i>For &gt;250 To 500, Deduct</i>	-2.10	
<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-1091 EA 5/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	15.87	
<i>For &gt;100 To 250, Deduct</i>	-1.68	
<i>For &gt;250 To 500, Deduct</i>	-2.10	
<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-1092 EA 5/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....	16.53	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-1093 EA 5/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	18.51	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-1094 EA 5/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....	19.20	
<i>For &gt;100 To 250, Deduct</i>	-1.72	
<i>For &gt;250 To 500, Deduct</i>	-2.15	
<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-1095 EA 5/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	20.69	
<i>For &gt;100 To 250, Deduct</i>	-1.75	
<i>For &gt;250 To 500, Deduct</i>	-2.19	
<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-1096 EA 5/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....	21.26	
<i>For &gt;100 To 250, Deduct</i>	-1.75	
<i>For &gt;250 To 500, Deduct</i>	-2.19	
<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-1097 EA 5/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	24.74	
<i>For &gt;100 To 250, Deduct</i>	-1.75	
<i>For &gt;250 To 500, Deduct</i>	-2.19	
<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-1098 EA 5/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt .....	26.17	
<i>For &gt;100 To 250, Deduct</i>	-1.79	
<i>For &gt;250 To 500, Deduct</i>	-2.24	
<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-1099 EA 5/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	26.62	
<i>For &gt;100 To 250, Deduct</i>	-1.79	
<i>For &gt;250 To 500, Deduct</i>	-2.24	
<i>For &gt;500, Deduct</i>	-2.68	

## 05 Metals

## 05 05 Common Work Results For Metals

## 05 05 23 Metal Fastenings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1100	EA		5/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	28.24	
			<i>For &gt;100 To 250, Deduct</i>	-1.79	
			<i>For &gt;250 To 500, Deduct</i>	-2.24	
			<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-1101	EA		5/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	29.89	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-1102	EA		5/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	31.27	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-1103	EA		5/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	37.84	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-1104	EA		5/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	44.87	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-1105			3/4" Diameter, 316 Stainless Steel, Hex Head Bolts <small>(05 05 23 00-0989)</small>		
05 05 23 00-1106	EA		3/4" Diameter x 1" Length, 316 Stainless Steel, Hex Head Bolt.....	14.63	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-1107	EA		3/4" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	14.88	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-1108	EA		3/4" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	15.82	
			<i>For &gt;100 To 250, Deduct</i>	-1.64	
			<i>For &gt;250 To 500, Deduct</i>	-2.06	
			<i>For &gt;500, Deduct</i>	-2.47	
05 05 23 00-1109	EA		3/4" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	16.83	
			<i>For &gt;100 To 250, Deduct</i>	-1.68	
			<i>For &gt;250 To 500, Deduct</i>	-2.10	
			<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-1110	EA		3/4" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	18.60	
			<i>For &gt;100 To 250, Deduct</i>	-1.68	
			<i>For &gt;250 To 500, Deduct</i>	-2.10	
			<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-1111	EA		3/4" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	19.62	
			<i>For &gt;100 To 250, Deduct</i>	-1.68	
			<i>For &gt;250 To 500, Deduct</i>	-2.10	
			<i>For &gt;500, Deduct</i>	-2.52	
05 05 23 00-1112	EA		3/4" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	21.99	
			<i>For &gt;100 To 250, Deduct</i>	-1.72	
			<i>For &gt;250 To 500, Deduct</i>	-2.15	
			<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-1113	EA		3/4" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	22.89	
			<i>For &gt;100 To 250, Deduct</i>	-1.72	
			<i>For &gt;250 To 500, Deduct</i>	-2.15	
			<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-1114	EA		3/4" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	23.38	
			<i>For &gt;100 To 250, Deduct</i>	-1.72	
			<i>For &gt;250 To 500, Deduct</i>	-2.15	
			<i>For &gt;500, Deduct</i>	-2.57	
05 05 23 00-1115	EA		3/4" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	24.23	
			<i>For &gt;100 To 250, Deduct</i>	-1.75	
			<i>For &gt;250 To 500, Deduct</i>	-2.19	
			<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-1116	EA		3/4" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	25.36	
			<i>For &gt;100 To 250, Deduct</i>	-1.75	
			<i>For &gt;250 To 500, Deduct</i>	-2.19	
			<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-1117	EA		3/4" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	28.84	
			<i>For &gt;100 To 250, Deduct</i>	-1.75	
			<i>For &gt;250 To 500, Deduct</i>	-2.19	
			<i>For &gt;500, Deduct</i>	-2.63	
05 05 23 00-1118	EA		3/4" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	34.06	
			<i>For &gt;100 To 250, Deduct</i>	-1.79	
			<i>For &gt;250 To 500, Deduct</i>	-2.24	
			<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-1119	EA		3/4" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	37.98	
			<i>For &gt;100 To 250, Deduct</i>	-1.79	
			<i>For &gt;250 To 500, Deduct</i>	-2.24	
			<i>For &gt;500, Deduct</i>	-2.68	
05 05 23 00-1120	EA		3/4" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	38.57	
			<i>For &gt;100 To 250, Deduct</i>	-1.79	
			<i>For &gt;250 To 500, Deduct</i>	-2.24	
			<i>For &gt;500, Deduct</i>	-2.68	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1121 EA 3/4" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	41.11	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-1122 EA 3/4" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt .....	47.06	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-1123 EA 3/4" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	47.57	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-1124 EA 3/4" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt .....	48.82	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
<b>05 05 23 00-1125 7/8" Diameter, 316 Stainless Steel, Hex Head Bolts (05 05 23 00-0999)</b>		
05 05 23 00-1126 EA 7/8" Diameter x 1-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	16.43	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-1127 EA 7/8" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt .....	18.06	
<i>For &gt;100 To 250, Deduct</i>	-1.82	
<i>For &gt;250 To 500, Deduct</i>	-2.28	
<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-1128 EA 7/8" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	19.16	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-1129 EA 7/8" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt .....	21.45	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-1130 EA 7/8" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	22.47	
<i>For &gt;100 To 250, Deduct</i>	-1.86	
<i>For &gt;250 To 500, Deduct</i>	-2.33	
<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-1131 EA 7/8" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt .....	23.55	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-1132 EA 7/8" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	24.94	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-1133 EA 7/8" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt .....	28.06	
<i>For &gt;100 To 250, Deduct</i>	-1.90	
<i>For &gt;250 To 500, Deduct</i>	-2.38	
<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-1134 EA 7/8" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	28.32	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-1135 EA 7/8" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt .....	29.35	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-1136 EA 7/8" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	38.09	
<i>For &gt;100 To 250, Deduct</i>	-1.94	
<i>For &gt;250 To 500, Deduct</i>	-2.42	
<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-1137 EA 7/8" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt .....	42.12	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-1138 EA 7/8" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	46.26	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-1139 EA 7/8" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt .....	48.31	
<i>For &gt;100 To 250, Deduct</i>	-1.97	
<i>For &gt;250 To 500, Deduct</i>	-2.47	
<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-1140 EA 7/8" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	51.14	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-1141 EA 7/8" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt .....	52.91	
<i>For &gt;100 To 250, Deduct</i>	-2.01	
<i>For &gt;250 To 500, Deduct</i>	-2.51	
<i>For &gt;500, Deduct</i>	-3.01	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1142	EA		7/8" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	54.67	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-1143	EA		7/8" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	56.65	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
<b>05 05 23 00-1144</b>			<b>1" Diameter, 316 Stainless Steel, Hex Head Bolts</b> <small>(05 05 23 00-0989)</small>		
05 05 23 00-1145	EA		1" Diameter x 2" Length, 316 Stainless Steel, Hex Head Bolt.....	20.03	
			<i>For &gt;100 To 250, Deduct</i>	-1.82	
			<i>For &gt;250 To 500, Deduct</i>	-2.28	
			<i>For &gt;500, Deduct</i>	-2.74	
05 05 23 00-1146	EA		1" Diameter x 2-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	22.74	
			<i>For &gt;100 To 250, Deduct</i>	-1.86	
			<i>For &gt;250 To 500, Deduct</i>	-2.33	
			<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-1147	EA		1" Diameter x 3" Length, 316 Stainless Steel, Hex Head Bolt.....	24.43	
			<i>For &gt;100 To 250, Deduct</i>	-1.86	
			<i>For &gt;250 To 500, Deduct</i>	-2.33	
			<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-1148	EA		1" Diameter x 3-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	27.13	
			<i>For &gt;100 To 250, Deduct</i>	-1.86	
			<i>For &gt;250 To 500, Deduct</i>	-2.33	
			<i>For &gt;500, Deduct</i>	-2.80	
05 05 23 00-1149	EA		1" Diameter x 4" Length, 316 Stainless Steel, Hex Head Bolt.....	28.27	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-1150	EA		1" Diameter x 4-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	30.10	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-1151	EA		1" Diameter x 5" Length, 316 Stainless Steel, Hex Head Bolt.....	31.95	
			<i>For &gt;100 To 250, Deduct</i>	-1.90	
			<i>For &gt;250 To 500, Deduct</i>	-2.38	
			<i>For &gt;500, Deduct</i>	-2.85	
05 05 23 00-1152	EA		1" Diameter x 5-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	33.98	
			<i>For &gt;100 To 250, Deduct</i>	-1.94	
			<i>For &gt;250 To 500, Deduct</i>	-2.42	
			<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-1153	EA		1" Diameter x 6" Length, 316 Stainless Steel, Hex Head Bolt.....	38.76	
			<i>For &gt;100 To 250, Deduct</i>	-1.94	
			<i>For &gt;250 To 500, Deduct</i>	-2.42	
			<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-1154	EA		1" Diameter x 6-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	43.46	
			<i>For &gt;100 To 250, Deduct</i>	-1.94	
			<i>For &gt;250 To 500, Deduct</i>	-2.42	
			<i>For &gt;500, Deduct</i>	-2.90	
05 05 23 00-1155	EA		1" Diameter x 7" Length, 316 Stainless Steel, Hex Head Bolt.....	50.07	
			<i>For &gt;100 To 250, Deduct</i>	-1.97	
			<i>For &gt;250 To 500, Deduct</i>	-2.47	
			<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-1156	EA		1" Diameter x 7-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	55.48	
			<i>For &gt;100 To 250, Deduct</i>	-1.97	
			<i>For &gt;250 To 500, Deduct</i>	-2.47	
			<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-1157	EA		1" Diameter x 8" Length, 316 Stainless Steel, Hex Head Bolt.....	56.26	
			<i>For &gt;100 To 250, Deduct</i>	-1.97	
			<i>For &gt;250 To 500, Deduct</i>	-2.47	
			<i>For &gt;500, Deduct</i>	-2.96	
05 05 23 00-1158	EA		1" Diameter x 8-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	58.21	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-1159	EA		1" Diameter x 9" Length, 316 Stainless Steel, Hex Head Bolt.....	58.95	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-1160	EA		1" Diameter x 9-1/2" Length, 316 Stainless Steel, Hex Head Bolt .....	67.93	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	
05 05 23 00-1161	EA		1" Diameter x 10" Length, 316 Stainless Steel, Hex Head Bolt.....	76.60	
			<i>For &gt;100 To 250, Deduct</i>	-2.01	
			<i>For &gt;250 To 500, Deduct</i>	-2.51	
			<i>For &gt;500, Deduct</i>	-3.01	

05 05 23 00-1162 Screws (05 05 23)05 05 23 00-1163 TekS® 5 Self Drilling Screws (05 05 23 00-1162)

Note: Screws include Climaseal® finish, self-drill point and tapping threads.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1164 EA 12-24 x 1-1/4", Hex Washer Head, Teks® 5 Self Drilling Screw.....	3.33	
<i>For &gt;10 To 50, Deduct</i>	-0.15	
<i>For &gt;50 To 100, Deduct</i>	-0.31	
<i>For &gt;100, Deduct</i>	-0.62	
05 05 23 00-1165 EA 12-24 x 1-1/2", Hex Washer Head, Teks® 5 Self Drilling Screw.....	3.43	
<i>For &gt;10 To 50, Deduct</i>	-0.15	
<i>For &gt;50 To 100, Deduct</i>	-0.31	
<i>For &gt;100, Deduct</i>	-0.63	
05 05 23 00-1166 EA 12-24 x 2", Hex Washer Head, Teks® 5 Self Drilling Screw.....	3.77	
<i>For &gt;10 To 50, Deduct</i>	-0.16	
<i>For &gt;50 To 100, Deduct</i>	-0.34	
<i>For &gt;100, Deduct</i>	-0.68	
05 05 23 00-1167 EA 1/4"-28 x 3", Hex Washer Head, Teks® 5 Self Drilling Screw.....	5.05	
<i>For &gt;10 To 50, Deduct</i>	-0.20	
<i>For &gt;50 To 100, Deduct</i>	-0.43	
<i>For &gt;100, Deduct</i>	-0.86	
05 05 23 00-1168 EA 1/4"-28 x 4", Hex Washer Head, Teks® 5 Self Drilling Screw.....	5.36	
<i>For &gt;10 To 50, Deduct</i>	-0.21	
<i>For &gt;50 To 100, Deduct</i>	-0.45	
<i>For &gt;100, Deduct</i>	-0.91	
05 05 23 00-1169 EA 1/4"-28 x 6", Hex Washer Head, Teks® 5 Self Drilling Screw.....	6.36	
<i>For &gt;10 To 50, Deduct</i>	-0.22	
<i>For &gt;50 To 100, Deduct</i>	-0.49	
<i>For &gt;100, Deduct</i>	-0.99	
05 05 23 00-1170 EA 1/4"-28 x 8", Hex Washer Head, Teks® 5 Self Drilling Screw.....	7.00	
<i>For &gt;10 To 50, Deduct</i>	-0.23	
<i>For &gt;50 To 100, Deduct</i>	-0.52	
<i>For &gt;100, Deduct</i>	-1.05	
05 05 23 00-1171 Security Screws <small>(05 05 23 00-1162)</small>		
05 05 23 00-1172 304/18-8 Stainless Steel, Security Screws <small>(05 05 23 00-1171)</small>		
Note: Includes "security" style drive in machine or sheet metal screw threads.		
05 05 23 00-1173 EA #4 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screws.....	2.64	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.26	
<i>For &gt;100, Deduct</i>	-0.51	
05 05 23 00-1174 EA #6 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	2.90	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.26	
<i>For &gt;100, Deduct</i>	-0.53	
05 05 23 00-1175 EA #6 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.12	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.54	
05 05 23 00-1176 EA #6 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.19	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.54	
05 05 23 00-1177 EA #6 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.33	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.55	
05 05 23 00-1178 EA #8 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	2.96	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.53	
05 05 23 00-1179 EA #8 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.06	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.54	
05 05 23 00-1180 EA #8 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.28	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.55	
05 05 23 00-1181 EA #8 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.34	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.55	
05 05 23 00-1182 EA #10 Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.02	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.53	
05 05 23 00-1183 EA #10 Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.05	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.54	
05 05 23 00-1184 EA #10 Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.14	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.27	
<i>For &gt;100, Deduct</i>	-0.54	
05 05 23 00-1185 EA #10 Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.44	
<i>For &gt;10 To 50, Deduct</i>	-0.13	
<i>For &gt;50 To 100, Deduct</i>	-0.28	
<i>For &gt;100, Deduct</i>	-0.55	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1186	EA		1/4" Diameter x 1/2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.19	
			<i>For &gt;10 To 50, Deduct</i>	-0.13	
			<i>For &gt;50 To 100, Deduct</i>	-0.27	
			<i>For &gt;100, Deduct</i>	-0.54	
05 05 23 00-1187	EA		1/4" Diameter x 1" Length, 304/18-8 Stainless Steel, Security Screw.....	3.26	
			<i>For &gt;10 To 50, Deduct</i>	-0.13	
			<i>For &gt;50 To 100, Deduct</i>	-0.27	
			<i>For &gt;100, Deduct</i>	-0.55	
05 05 23 00-1188	EA		1/4" Diameter x 1-1/2" Length, 304/18-8 Stainless Steel, Security Screw .....	3.54	
			<i>For &gt;10 To 50, Deduct</i>	-0.13	
			<i>For &gt;50 To 100, Deduct</i>	-0.28	
			<i>For &gt;100, Deduct</i>	-0.56	
05 05 23 00-1189	EA		1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Security Screw.....	3.98	
			<i>For &gt;10 To 50, Deduct</i>	-0.13	
			<i>For &gt;50 To 100, Deduct</i>	-0.29	
			<i>For &gt;100, Deduct</i>	-0.58	
05 05 23 00-1190			<b>Threaded Rod</b> <small>(05 05 23)</small>		
			Note: Fully threaded. See CSI section 05 05 19 00-0169 for anchoring adhesive, 05 05 23 00-1283 for nuts and washers.		
05 05 23 00-1191			<b>Plain Finish Steel, Low Carbon Threaded Rod</b> <small>(05 05 23 00-1190)</small>		
05 05 23 00-1192	LF		1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	1.66	0.43
			<i>For Left Hand Threaded Rod, Add</i>	0.08	
05 05 23 00-1193	LF		5/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	2.15	0.47
			<i>For Left Hand Threaded Rod, Add</i>	0.12	
05 05 23 00-1194	LF		3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	2.49	0.54
			<i>For Left Hand Threaded Rod, Add</i>	0.14	
05 05 23 00-1195	LF		7/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	3.31	0.55
			<i>For Left Hand Threaded Rod, Add</i>	0.22	
05 05 23 00-1196	LF		1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	3.39	0.57
			<i>For Left Hand Threaded Rod, Add</i>	0.23	
05 05 23 00-1197	LF		9/16" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	4.17	0.58
			<i>For Left Hand Threaded Rod, Add</i>	0.30	
05 05 23 00-1198	LF		5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	4.68	0.59
			<i>For Left Hand Threaded Rod, Add</i>	0.35	
05 05 23 00-1199	LF		3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	7.57	0.60
			<i>For Left Hand Threaded Rod, Add</i>	0.64	
05 05 23 00-1200	LF		7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	8.24	0.63
			<i>For Left Hand Threaded Rod, Add</i>	0.70	
05 05 23 00-1201	LF		1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	11.22	0.71
			<i>For Left Hand Threaded Rod, Add</i>	0.98	
05 05 23 00-1202	LF		1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	13.94	0.80
			<i>For Left Hand Threaded Rod, Add</i>	1.24	
05 05 23 00-1203	LF		1-1/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	18.44	0.86
			<i>For Left Hand Threaded Rod, Add</i>	1.67	
05 05 23 00-1204	LF		1-3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	22.89	0.94
			<i>For Left Hand Threaded Rod, Add</i>	2.10	
05 05 23 00-1205	LF		1-1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	27.35	0.98
			<i>For Left Hand Threaded Rod, Add</i>	2.54	
05 05 23 00-1206	LF		1-3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	33.48	1.02
			<i>For Left Hand Threaded Rod, Add</i>	3.14	
05 05 23 00-1207	LF		2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	42.70	1.07
			<i>For Left Hand Threaded Rod, Add</i>	4.06	
05 05 23 00-1208			<b>Zinc Plated Steel, Low Carbon Threaded Rod</b> <small>(05 05 23 00-1190)</small>		
05 05 23 00-1209	LF		1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	1.67	0.43
			<i>For Left Hand Threaded Rod, Add</i>	0.08	
05 05 23 00-1210	LF		5/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	2.42	0.47
			<i>For Left Hand Threaded Rod, Add</i>	0.15	
05 05 23 00-1211	LF		3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	2.69	0.54
			<i>For Left Hand Threaded Rod, Add</i>	0.16	
05 05 23 00-1212	LF		7/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	3.81	0.55
			<i>For Left Hand Threaded Rod, Add</i>	0.27	
05 05 23 00-1213	LF		1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	4.09	0.57
			<i>For Left Hand Threaded Rod, Add</i>	0.30	
05 05 23 00-1214	LF		9/16" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	5.31	0.58
			<i>For Left Hand Threaded Rod, Add</i>	0.42	
05 05 23 00-1215	LF		5/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	5.64	0.59
			<i>For Left Hand Threaded Rod, Add</i>	0.45	
05 05 23 00-1216	LF		3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	8.39	0.60
			<i>For Left Hand Threaded Rod, Add</i>	0.72	
05 05 23 00-1217	LF		7/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	10.81	0.63
			<i>For Left Hand Threaded Rod, Add</i>	0.96	
05 05 23 00-1218	LF		1" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	14.47	0.71
			<i>For Left Hand Threaded Rod, Add</i>	1.30	
05 05 23 00-1219	LF		1-1/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	18.64	0.80
			<i>For Left Hand Threaded Rod, Add</i>	1.71	
05 05 23 00-1220	LF		1-1/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	22.22	0.86
			<i>For Left Hand Threaded Rod, Add</i>	2.04	
05 05 23 00-1221	LF		1-3/8" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod.....	25.23	0.94
			<i>For Left Hand Threaded Rod, Add</i>	2.34	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 05 23 00-1222	LF		1-1/2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	31.72 2.98	0.98
	05 05 23 00-1223	LF		1-3/4" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	39.25 3.72	1.02
	05 05 23 00-1224	LF		2" Diameter, Zinc Plated Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	57.15 5.50	1.07
<b>05 05 23 00-1225</b>	<b>Hot Dipped Galvanized Steel, Low Carbon Threaded Rod</b> <small>(05 05 23 00-1190)</small>					
	05 05 23 00-1226	LF		3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	4.32 0.33	0.54
	05 05 23 00-1227	LF		1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	6.00 0.49	0.57
	05 05 23 00-1228	LF		5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	8.05 0.69	0.59
	05 05 23 00-1229	LF		3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	10.99 0.98	0.60
	05 05 23 00-1230	LF		7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	15.15 1.39	0.63
	05 05 23 00-1231	LF		1" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	19.52 1.81	0.71
	05 05 23 00-1232	LF		1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	25.63 2.40	0.80
	05 05 23 00-1233	LF		1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	33.65 3.19	0.86
	05 05 23 00-1234	LF		1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	37.60 3.57	0.94
	05 05 23 00-1235	LF		1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	44.72 4.28	0.98
	05 05 23 00-1236	LF		1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	54.28 5.22	1.02
	05 05 23 00-1237	LF		2" Diameter, Hot Dipped Galvanized Steel, Low Carbon Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	94.54 9.24	1.07
<b>05 05 23 00-1238</b>	<b>304/18-8 Stainless Steel Threaded Rod</b> <small>(05 05 23 00-1190)</small>					
	05 05 23 00-1239	LF		1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	2.19 0.13	0.43
	05 05 23 00-1240	LF		5/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	3.23 0.23	0.47
	05 05 23 00-1241	LF		3/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	4.12 0.31	0.54
	05 05 23 00-1242	LF		7/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	5.64 0.45	0.55
	05 05 23 00-1243	LF		1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	6.72 0.56	0.57
	05 05 23 00-1244	LF		9/16" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	9.56 0.84	0.58
	05 05 23 00-1245	LF		5/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	9.98 0.88	0.59
	05 05 23 00-1246	LF		3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	13.88 1.27	0.60
	05 05 23 00-1247	LF		7/8" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	18.99 1.77	0.63
	05 05 23 00-1248	LF		1" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	24.33 2.29	0.71
	05 05 23 00-1249	LF		1-1/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	51.21 4.94	0.86
	05 05 23 00-1250	LF		1-1/2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	77.82 7.59	0.98
	05 05 23 00-1251	LF		1-3/4" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	80.06 7.80	1.02
	05 05 23 00-1252	LF		2" Diameter, 304/18-8 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	110.63 10.85	1.07
<b>05 05 23 00-1253</b>	<b>316 Stainless Steel Threaded Rod</b> <small>(05 05 23 00-1190)</small>					
	05 05 23 00-1254	LF		1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	3.09 0.22	0.43
	05 05 23 00-1255	LF		5/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	4.89 0.39	0.47
	05 05 23 00-1256	LF		3/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	6.45 0.54	0.54
	05 05 23 00-1257	LF		7/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	9.95 0.88	0.55
	05 05 23 00-1258	LF		1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	10.54 0.94	0.57
	05 05 23 00-1259	LF		9/16" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	13.75 1.26	0.58
	05 05 23 00-1260	LF		5/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	14.80 1.36	0.59
	05 05 23 00-1261	LF		3/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	21.45 2.02	0.60

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1262 LF 7/8" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	29.28 2.80	0.63
05 05 23 00-1263 LF 1" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	37.02 3.56	0.71
05 05 23 00-1264 LF 1-1/4" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	77.88 7.61	0.86
05 05 23 00-1265 LF 1-1/2" Diameter, 316 Stainless Steel Threaded Rod..... <i>For Left Hand Threaded Rod, Add</i>	102.01 10.01	0.98
<b>05 05 23 00-1266 Plain Finish Steel, B-7 Alloy Threaded Rod (05 05 23 00-1190)</b>		
05 05 23 00-1267 LF 1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	2.78 0.96	0.43
05 05 23 00-1268 LF 5/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	4.24 1.65	0.47
05 05 23 00-1269 LF 3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	4.44 1.69	0.54
05 05 23 00-1270 LF 7/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	4.84 1.87	0.55
05 05 23 00-1271 LF 1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	5.32 2.09	0.57
05 05 23 00-1272 LF 9/16" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	6.61 2.73	0.58
05 05 23 00-1273 LF 5/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	6.83 2.82	0.59
05 05 23 00-1274 LF 3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	9.02 3.90	0.60
05 05 23 00-1275 LF 7/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	10.78 4.76	0.63
05 05 23 00-1276 LF 1" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	13.97 6.27	0.71
05 05 23 00-1277 LF 1-1/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	18.14 8.28	0.80
05 05 23 00-1278 LF 1-1/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	20.18 9.20	0.86
05 05 23 00-1279 LF 1-3/8" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	23.27 10.71	0.94
05 05 23 00-1280 LF 1-1/2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	28.27 13.16	0.98
05 05 23 00-1281 LF 1-3/4" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	29.22 13.59	1.02
05 05 23 00-1282 LF 2" Diameter, Plain Finish Steel, B-7 Alloy Threaded Rod ..... <i>For Zinc Plating, Add</i>	39.15 18.51	1.07
<b>05 05 23 00-1283 Nuts And Washers (05 05 23)</b>		
<b>05 05 23 00-1284 Hex Nuts (05 05 23 00-1283)</b>		
<b>05 05 23 00-1285 Zinc Plated Steel, Low Carbon/Grade 2 Hex Nuts (05 05 23 00-1284)</b>		
05 05 23 00-1286 EA 1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.56	0.25
05 05 23 00-1287 EA 5/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.63	0.25
05 05 23 00-1288 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.67	0.25
05 05 23 00-1289 EA 7/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.79	0.25
05 05 23 00-1290 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.86	0.25
05 05 23 00-1291 EA 9/16" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.14	0.25
05 05 23 00-1292 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.18	0.25
05 05 23 00-1293 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.39	0.50
05 05 23 00-1294 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.04	0.50
05 05 23 00-1295 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.61	0.50
05 05 23 00-1296 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	4.27	0.50
05 05 23 00-1297 EA 1-1/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	5.24	0.50
05 05 23 00-1298 EA 1-3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	7.73	0.50
05 05 23 00-1299 EA 1-1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	8.96	0.76
05 05 23 00-1300 EA 1-3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	13.15	0.76
05 05 23 00-1301 EA 2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	19.02	0.76
<b>05 05 23 00-1302 Zinc Plated Steel, Grade 5 Hex Nuts (05 05 23 00-1284)</b>		
05 05 23 00-1303 EA 1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.58	0.25
05 05 23 00-1304 EA 5/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.64	0.25
05 05 23 00-1305 EA 3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.70	0.25
05 05 23 00-1306 EA 7/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.82	0.25
05 05 23 00-1307 EA 1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	0.96	0.25
05 05 23 00-1308 EA 9/16" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.17	0.25
05 05 23 00-1309 EA 5/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.20	0.25
05 05 23 00-1310 EA 3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	1.58	0.50
05 05 23 00-1311 EA 7/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	2.23	0.50
05 05 23 00-1312 EA 1" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	3.16	0.50
05 05 23 00-1313 EA 1-1/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	4.83	0.50
05 05 23 00-1314 EA 1-1/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	6.85	0.50
05 05 23 00-1315 EA 1-3/8" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	10.08	0.50
05 05 23 00-1316 EA 1-1/2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut.....	11.14	0.76



			DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
MINOR					
CSI	UOM				
05 05 23 00-1317	EA		1-3/4" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	20.11	0.76
05 05 23 00-1318	EA		2" Diameter, Zinc Plated Steel, Grade 5 Hex Nut .....	28.84	0.76
<b>05 05 23 00-1319</b>			<b>Zinc Plated Steel, Grade 8 Hex Nuts</b> <small>(05 05 23 00-1284)</small>		
05 05 23 00-1320	EA		1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	0.59	0.25
05 05 23 00-1321	EA		5/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	0.69	0.25
05 05 23 00-1322	EA		3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	0.74	0.25
05 05 23 00-1323	EA		7/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	0.94	0.25
05 05 23 00-1324	EA		1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	1.13	0.25
05 05 23 00-1325	EA		9/16" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	1.36	0.25
05 05 23 00-1326	EA		5/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	1.54	0.25
05 05 23 00-1327	EA		3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	1.92	0.50
05 05 23 00-1328	EA		7/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	2.88	0.50
05 05 23 00-1329	EA		1" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	3.85	0.50
05 05 23 00-1330	EA		1-1/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	6.04	0.50
05 05 23 00-1331	EA		1-1/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	7.55	0.50
05 05 23 00-1332	EA		1-3/8" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	12.46	0.50
05 05 23 00-1333	EA		1-1/2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	13.22	0.76
05 05 23 00-1334	EA		1-3/4" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	20.17	0.76
05 05 23 00-1335	EA		2" Diameter, Zinc Plated Steel, Grade 8 Hex Nut .....	28.52	0.76
<b>05 05 23 00-1336</b>			<b>Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nuts</b> <small>(05 05 23 00-1284)</small>		
05 05 23 00-1337	EA		1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	0.59	0.25
05 05 23 00-1338	EA		5/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	0.67	0.25
05 05 23 00-1339	EA		3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	0.72	0.25
05 05 23 00-1340	EA		7/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	0.92	0.25
05 05 23 00-1341	EA		1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	1.06	0.25
05 05 23 00-1342	EA		9/16" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	1.18	0.25
05 05 23 00-1343	EA		5/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	1.30	0.25
05 05 23 00-1344	EA		3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	1.75	0.50
05 05 23 00-1345	EA		7/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	2.54	0.50
05 05 23 00-1346	EA		1" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	3.52	0.50
05 05 23 00-1347	EA		1-1/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	5.84	0.50
05 05 23 00-1348	EA		1-1/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	7.51	0.50
05 05 23 00-1349	EA		1-3/8" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	11.16	0.50
05 05 23 00-1350	EA		1-1/2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	13.02	0.76
05 05 23 00-1351	EA		1-3/4" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	22.71	0.76
05 05 23 00-1352	EA		2" Diameter, Hot Dipped Galvanized Steel, Low Carbon/Grade 2 Hex Nut .....	39.32	0.76
<b>05 05 23 00-1353</b>			<b>304 Stainless Steel Hex Nuts</b> <small>(05 05 23 00-1284)</small>		
05 05 23 00-1354	EA		1/4" Diameter, 304 Stainless Steel Hex Nut .....	0.61	0.25
05 05 23 00-1355	EA		5/16" Diameter, 304 Stainless Steel Hex Nut .....	0.71	0.25
05 05 23 00-1356	EA		3/8" Diameter, 304 Stainless Steel Hex Nut .....	0.78	0.25
05 05 23 00-1357	EA		7/16" Diameter, 304 Stainless Steel Hex Nut .....	1.09	0.25
05 05 23 00-1358	EA		1/2" Diameter, 304 Stainless Steel Hex Nut .....	1.17	0.25
05 05 23 00-1359	EA		9/16" Diameter, 304 Stainless Steel Hex Nut .....	1.68	0.25
05 05 23 00-1360	EA		5/8" Diameter, 304 Stainless Steel Hex Nut .....	1.85	0.25
05 05 23 00-1361	EA		3/4" Diameter, 304 Stainless Steel Hex Nut .....	2.11	0.50
05 05 23 00-1362	EA		7/8" Diameter, 304 Stainless Steel Hex Nut .....	3.33	0.50
05 05 23 00-1363	EA		1" Diameter, 304 Stainless Steel Hex Nut .....	5.02	0.50
05 05 23 00-1364	EA		1-1/4" Diameter, 304 Stainless Steel Hex Nut .....	11.77	0.50
05 05 23 00-1365	EA		1-1/2" Diameter, 304 Stainless Steel Hex Nut .....	22.34	0.76
05 05 23 00-1366	EA		1-3/4" Diameter, 304 Stainless Steel Hex Nut .....	39.03	0.76
05 05 23 00-1367	EA		2" Diameter, 304 Stainless Steel Hex Nut .....	55.48	0.76
<b>05 05 23 00-1368</b>			<b>316 Stainless Steel Hex Nuts</b> <small>(05 05 23 00-1284)</small>		
05 05 23 00-1369	EA		1/4" Diameter, 316 Stainless Steel Hex Nut .....	0.68	0.25
05 05 23 00-1370	EA		5/16" Diameter, 316 Stainless Steel Hex Nut .....	0.78	0.25
05 05 23 00-1371	EA		3/8" Diameter, 316 Stainless Steel Hex Nut .....	0.90	0.25
05 05 23 00-1372	EA		7/16" Diameter, 316 Stainless Steel Hex Nut .....	1.37	0.25
05 05 23 00-1373	EA		1/2" Diameter, 316 Stainless Steel Hex Nut .....	1.46	0.25
05 05 23 00-1374	EA		9/16" Diameter, 316 Stainless Steel Hex Nut .....	1.93	0.25
05 05 23 00-1375	EA		5/8" Diameter, 316 Stainless Steel Hex Nut .....	2.15	0.25
05 05 23 00-1376	EA		3/4" Diameter, 316 Stainless Steel Hex Nut .....	2.94	0.50
05 05 23 00-1377	EA		7/8" Diameter, 316 Stainless Steel Hex Nut .....	4.00	0.50
05 05 23 00-1378	EA		1" Diameter, 316 Stainless Steel Hex Nut .....	6.09	0.50
05 05 23 00-1379	EA		1-1/4" Diameter, 316 Stainless Steel Hex Nut .....	18.07	0.50
05 05 23 00-1380	EA		1-1/2" Diameter, 316 Stainless Steel Hex Nut .....	29.06	0.76
05 05 23 00-1381	EA		1-3/4" Diameter, 316 Stainless Steel Hex Nut .....	48.81	0.76
05 05 23 00-1382	EA		2" Diameter, 316 Stainless Steel Hex Nut .....	90.44	0.76
<b>05 05 23 00-1383</b>			<b>Flat Washers</b> <small>(05 05 23 00-1283)</small>		
<b>05 05 23 00-1384</b>			<b>Zinc Plated Steel, Low Carbon Flat Washers</b> <small>(05 05 23 00-1383)</small>		
05 05 23 00-1385	EA		1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	0.04	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

05 05 23 00-1386	EA	5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	0.07
05 05 23 00-1387	EA	3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	0.12
05 05 23 00-1388	EA	7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	0.18
05 05 23 00-1389	EA	1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	0.27
05 05 23 00-1390	EA	9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	0.30
05 05 23 00-1391	EA	5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	0.51
05 05 23 00-1392	EA	3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	0.74
05 05 23 00-1393	EA	7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	0.88
05 05 23 00-1394	EA	1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	1.08
05 05 23 00-1395	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	1.22
05 05 23 00-1396	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	1.46
05 05 23 00-1397	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	2.29
05 05 23 00-1398	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	2.35
05 05 23 00-1399	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	3.47
05 05 23 00-1400	EA	2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	4.31
<b>05 05 23 00-1401</b>		<b>Zinc Plated Steel, Hardened Flat Washers (05 05 23 00-1383)</b>	
05 05 23 00-1402	EA	1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	0.16
05 05 23 00-1403	EA	5/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	0.22
05 05 23 00-1404	EA	3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	0.25
05 05 23 00-1405	EA	7/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	0.34
05 05 23 00-1406	EA	1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	0.46
05 05 23 00-1407	EA	9/16" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	0.74
05 05 23 00-1408	EA	5/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	1.06
05 05 23 00-1409	EA	3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	1.49
05 05 23 00-1410	EA	7/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	2.49
05 05 23 00-1411	EA	1" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	2.76
05 05 23 00-1412	EA	1-1/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	4.02
05 05 23 00-1413	EA	1-1/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	4.38
05 05 23 00-1414	EA	1-3/8" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	5.78
05 05 23 00-1415	EA	1-1/2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	6.61
05 05 23 00-1416	EA	1-3/4" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	8.89
05 05 23 00-1417	EA	2" Inside Diameter, Zinc Plated Steel, Hardened Flat Washer .....	10.66
<b>05 05 23 00-1418</b>		<b>Hot Dipped Galvanized Steel Flat Washers (05 05 23 00-1383)</b>	
05 05 23 00-1419	EA	1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	0.10
05 05 23 00-1420	EA	5/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	0.15
05 05 23 00-1421	EA	3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	0.17
05 05 23 00-1422	EA	7/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	0.31
05 05 23 00-1423	EA	1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	0.40
05 05 23 00-1424	EA	9/16" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	0.65
05 05 23 00-1425	EA	5/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	0.73
05 05 23 00-1426	EA	3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	1.10
05 05 23 00-1427	EA	7/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	1.55
05 05 23 00-1428	EA	1" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	1.71
05 05 23 00-1429	EA	1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	2.61
05 05 23 00-1430	EA	1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	2.90
05 05 23 00-1431	EA	1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	4.15
05 05 23 00-1432	EA	1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	4.49
05 05 23 00-1433	EA	1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Flat Washer .....	6.52
<b>05 05 23 00-1434</b>		<b>304/18-8 Stainless Steel Flat Washers (05 05 23 00-1383)</b>	
05 05 23 00-1435	EA	1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	0.08
05 05 23 00-1436	EA	5/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	0.11
05 05 23 00-1437	EA	3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	0.16
05 05 23 00-1438	EA	7/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	0.29
05 05 23 00-1439	EA	1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	0.53
05 05 23 00-1440	EA	9/16" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	0.66
05 05 23 00-1441	EA	5/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	0.97
05 05 23 00-1442	EA	3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	0.99
05 05 23 00-1443	EA	7/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	2.09
05 05 23 00-1444	EA	1" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	2.64
05 05 23 00-1445	EA	1-1/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	3.08
05 05 23 00-1446	EA	1-1/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	3.31
05 05 23 00-1447	EA	1-3/8" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	3.50
05 05 23 00-1448	EA	1-1/2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	4.27
05 05 23 00-1449	EA	1-3/4" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	5.30
05 05 23 00-1450	EA	2" Inside Diameter, 304/18-8 Stainless Steel Flat Washer .....	10.42
<b>05 05 23 00-1451</b>		<b>316 Stainless Steel Flat Washers (05 05 23 00-1383)</b>	
05 05 23 00-1452	EA	1/4" Inside Diameter, 316 Stainless Steel Flat Washer .....	0.16
05 05 23 00-1453	EA	5/16" Inside Diameter, 316 Stainless Steel Flat Washer .....	0.18
05 05 23 00-1454	EA	3/8" Inside Diameter, 316 Stainless Steel Flat Washer .....	0.31
05 05 23 00-1455	EA	7/16" Inside Diameter, 316 Stainless Steel Flat Washer .....	0.37
05 05 23 00-1456	EA	1/2" Inside Diameter, 316 Stainless Steel Flat Washer .....	0.69
05 05 23 00-1457	EA	9/16" Inside Diameter, 316 Stainless Steel Flat Washer .....	1.24





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1458 EA 5/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.46	
05 05 23 00-1459 EA 3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	1.84	
05 05 23 00-1460 EA 7/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	2.85	
05 05 23 00-1461 EA 1" Inside Diameter, 316 Stainless Steel Flat Washer.....	3.18	
05 05 23 00-1462 EA 1-1/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	3.62	
05 05 23 00-1463 EA 1-1/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.46	
05 05 23 00-1464 EA 1-3/8" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.72	
05 05 23 00-1465 EA 1-1/2" Inside Diameter, 316 Stainless Steel Flat Washer.....	4.83	
05 05 23 00-1466 EA 1-3/4" Inside Diameter, 316 Stainless Steel Flat Washer.....	7.07	
<b>05 05 23 00-1467 Lock Washers</b> (05 05 23 00-1283)		
<b>05 05 23 00-1468 Zinc Plated Steel, Low Carbon Lock Washers</b> (05 05 23 00-1467)		
05 05 23 00-1469 EA 1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.02	
05 05 23 00-1470 EA 5/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.03	
05 05 23 00-1471 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.04	
05 05 23 00-1472 EA 7/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.07	
05 05 23 00-1473 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.10	
05 05 23 00-1474 EA 9/16" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.17	
05 05 23 00-1475 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.19	
05 05 23 00-1476 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.29	
05 05 23 00-1477 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.49	
05 05 23 00-1478 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	0.88	
05 05 23 00-1479 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	1.29	
05 05 23 00-1480 EA 1-1/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	1.98	
05 05 23 00-1481 EA 1-3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	3.13	
05 05 23 00-1482 EA 1-1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	3.68	
05 05 23 00-1483 EA 1-3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	6.58	
05 05 23 00-1484 EA 2" Inside Diameter, Zinc Plated Steel, Low Carbon Lock Washer.....	7.41	
<b>05 05 23 00-1485 Hot Dipped Galvanized Steel Lock Washers</b> (05 05 23 00-1467)		
05 05 23 00-1486 EA 1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.08	
05 05 23 00-1487 EA 5/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.10	
05 05 23 00-1488 EA 3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.13	
05 05 23 00-1489 EA 7/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.14	
05 05 23 00-1490 EA 1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.22	
05 05 23 00-1491 EA 9/16" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.28	
05 05 23 00-1492 EA 5/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.34	
05 05 23 00-1493 EA 3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.57	
05 05 23 00-1494 EA 7/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	0.82	
05 05 23 00-1495 EA 1" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	1.29	
05 05 23 00-1496 EA 1-1/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	2.33	
05 05 23 00-1497 EA 1-1/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	2.78	
05 05 23 00-1498 EA 1-3/8" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	4.02	
05 05 23 00-1499 EA 1-1/2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	4.60	
05 05 23 00-1500 EA 1-3/4" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	6.22	
05 05 23 00-1501 EA 2" Inside Diameter, Hot Dipped Galvanized Steel Lock Washer.....	8.47	
<b>05 05 23 00-1502 304/18-8 Stainless Steel Lock Washers</b> (05 05 23 00-1467)		
05 05 23 00-1503 EA 1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.07	
05 05 23 00-1504 EA 5/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.10	
05 05 23 00-1505 EA 3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.14	
05 05 23 00-1506 EA 7/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.25	
05 05 23 00-1507 EA 1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.28	
05 05 23 00-1508 EA 9/16" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.68	
05 05 23 00-1509 EA 5/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.80	
05 05 23 00-1510 EA 3/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	0.94	
05 05 23 00-1511 EA 7/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	1.70	
05 05 23 00-1512 EA 1" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	2.40	
05 05 23 00-1513 EA 1-1/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	4.18	
05 05 23 00-1514 EA 1-1/4" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	5.56	
05 05 23 00-1515 EA 1-3/8" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	7.07	
05 05 23 00-1516 EA 1-1/2" Inside Diameter, 304/18-8 Stainless Steel Lock Washer.....	8.48	
<b>05 05 23 00-1517 316 Stainless Steel Lock Washers</b> (05 05 23 00-1467)		
05 05 23 00-1518 EA 1/4" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.08	
05 05 23 00-1519 EA 5/16" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.19	
05 05 23 00-1520 EA 3/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.21	
05 05 23 00-1521 EA 7/16" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.37	
05 05 23 00-1522 EA 1/2" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.41	
05 05 23 00-1523 EA 9/16" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.73	
05 05 23 00-1524 EA 5/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	0.80	
05 05 23 00-1525 EA 3/4" Inside Diameter, 316 Stainless Steel Lock Washer.....	1.38	
05 05 23 00-1526 EA 7/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	2.28	
05 05 23 00-1527 EA 1" Inside Diameter, 316 Stainless Steel Lock Washer.....	3.10	
05 05 23 00-1528 EA 1-1/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	4.33	
05 05 23 00-1529 EA 1-1/4" Inside Diameter, 316 Stainless Steel Lock Washer.....	6.66	

**05 Metals****05 05 Common Work Results For Metals****05 05 23 Metal Fastenings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1530	EA		1-3/8" Inside Diameter, 316 Stainless Steel Lock Washer.....	11.93	
05 05 23 00-1531	EA		1-1/2" Inside Diameter, 316 Stainless Steel Lock Washer.....	13.25	
05 05 23 00-1532			<b>Load Indicating Washers</b> (05 05 23 00-1283)		
05 05 23 00-1533			<b>A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959)</b> (05 05 23 00-1532)		
05 05 23 00-1534			<b>Plain Finish, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959)</b> (05 05 23 00-1533)		
05 05 23 00-1535	EA		1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.14	
05 05 23 00-1536	EA		5/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.43	
05 05 23 00-1537	EA		3/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.62	
05 05 23 00-1538	EA		7/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.97	
05 05 23 00-1539	EA		1", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.59	
05 05 23 00-1540	EA		1-1/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	5.97	
05 05 23 00-1541	EA		1-1/4", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	7.71	
05 05 23 00-1542	EA		1-3/8", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	9.85	
05 05 23 00-1543	EA		1-1/2", Plain Finish, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	10.83	
05 05 23 00-1544			<b>Galvanized, A325, Direct Tension Indicator, Load Indicating Washers (ASTM F959)</b> (05 05 23 00-1533)		
05 05 23 00-1545	EA		1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.71	
05 05 23 00-1546	EA		5/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.02	
05 05 23 00-1547	EA		3/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	2.94	
05 05 23 00-1548	EA		7/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	3.59	
05 05 23 00-1549	EA		1", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	4.25	
05 05 23 00-1550	EA		1-1/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	6.41	
05 05 23 00-1551	EA		1-1/4", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	8.07	
05 05 23 00-1552	EA		1-3/8", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	11.48	
05 05 23 00-1553	EA		1-1/2", Galvanized, A325, Direct Tension Indicator, Load Indicating Washer (ASTM F959).....	12.63	
05 05 23 00-1554			<b>Beveled Washers</b> (05 05 23 00-1283)		
05 05 23 00-1555			<b>Plain Finish, Square Beveled Structural Washers (ASTM F436)</b> (05 05 23 00-1554)		
05 05 23 00-1556	EA		1/2", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.54	
05 05 23 00-1557	EA		5/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.61	
05 05 23 00-1558	EA		3/4", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	3.70	
05 05 23 00-1559	EA		7/8", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.49	
05 05 23 00-1560	EA		1", Plain Finish, Square Beveled Structural Washer (ASTM F436).....	4.73	
05 05 23 00-1561			<b>Galvanized, Square Beveled Structural Washers (ASTM F436)</b> (05 05 23 00-1554)		
05 05 23 00-1562	EA		1/2", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.09	
05 05 23 00-1563	EA		5/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.32	
05 05 23 00-1564	EA		3/4", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.32	
05 05 23 00-1565	EA		7/8", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.63	
05 05 23 00-1566	EA		1", Galvanized, Square Beveled Structural Washer (ASTM F436).....	5.98	
05 05 23 00-1567			<b>Drilling In Steel Plates</b> (05 05 23)		
05 05 23 00-1568	EA		Up To 1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	15.91	
			<i>For Aluminum, Deduct</i>	-1.59	
			<i>For Stainless Steel, Add</i>	1.99	
05 05 23 00-1569	EA		>1/2" To 7/8" Diameter Drill Through Up To 1/4" Steel Plate.....	18.72	
			<i>For Aluminum, Deduct</i>	-1.87	
			<i>For Stainless Steel, Add</i>	2.34	
05 05 23 00-1570	EA		>7/8" To 1-1/2" Diameter Drill Through Up To 1/4" Steel Plate.....	22.46	
			<i>For Aluminum, Deduct</i>	-2.25	
			<i>For Stainless Steel, Add</i>	2.81	
05 05 23 00-1571	EA		>1-1/2" To 4" Diameter Drill Through Up To 1/4" Steel Plate.....	26.20	
			<i>For Aluminum, Deduct</i>	-2.62	
			<i>For Stainless Steel, Add</i>	3.28	
05 05 23 00-1572	EA		>4" To 10" Diameter Drill Through Up To 1/4" Steel Plate.....	35.09	
			<i>For Aluminum, Deduct</i>	-3.51	
			<i>For Stainless Steel, Add</i>	4.39	
05 05 23 00-1573	EA		Up To 1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	18.72	
			<i>For Aluminum, Deduct</i>	-1.87	
			<i>For Stainless Steel, Add</i>	2.34	
05 05 23 00-1574	EA		>1/2" To 7/8" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	23.40	
			<i>For Aluminum, Deduct</i>	-2.34	
			<i>For Stainless Steel, Add</i>	2.93	
05 05 23 00-1575	EA		>7/8" To 1-1/2" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	28.07	
			<i>For Aluminum, Deduct</i>	-2.81	
			<i>For Stainless Steel, Add</i>	3.51	
05 05 23 00-1576	EA		>1-1/2" To 4" Diameter Drill Through >1/4" To 1/2" Steel Plate.....	35.09	
			<i>For Aluminum, Deduct</i>	-3.51	
			<i>For Stainless Steel, Add</i>	4.39	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 05 23 00-1577	EA			Up To 1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	23.40	
				<i>For Aluminum, Deduct</i>	-2.34	
				<i>For Stainless Steel, Add</i>	2.93	
05 05 23 00-1578	EA			>1/2" To 7/8" Diameter Drill Through >1/2" To 1" Steel Plate.....	30.89	
				<i>For Aluminum, Deduct</i>	-3.09	
				<i>For Stainless Steel, Add</i>	3.86	
05 05 23 00-1579	EA			>7/8" To 1-1/2" Diameter Drill Through >1/2" To 1" Steel Plate.....	37.44	
05 05 23 00-1580	<b>Welded Stud Anchors</b> <small>(05 05 23)</small>					
05 05 23 00-1581	EA			1/4" Diameter x 1-1/8" Long, Welded Stud Concrete Anchors.....	2.24	
05 05 23 00-1582	EA			1/4" Diameter x 2-11/16" Long, Welded Stud Concrete Anchors.....	2.27	
05 05 23 00-1583	EA			1/4" Diameter x 3-1/8" Long, Welded Stud Concrete Anchors.....	2.28	
05 05 23 00-1584	EA			1/4" Diameter x 4-1/8" Long, Welded Stud Concrete Anchors.....	2.29	
05 05 23 00-1585	EA			3/8" Diameter x 1-3/8" Long, Welded Stud Concrete Anchors.....	2.35	
05 05 23 00-1586	EA			3/8" Diameter x 1-5/8" Long, Welded Stud Concrete Anchors.....	2.42	
05 05 23 00-1587	EA			3/8" Diameter x 2-1/8" Long, Welded Stud Concrete Anchors.....	2.48	
05 05 23 00-1588	EA			3/8" Diameter x 2-5/8" Long, Welded Stud Concrete Anchors.....	2.52	
05 05 23 00-1589	EA			3/8" Diameter x 3-1/8" Long, Welded Stud Concrete Anchors.....	2.55	
05 05 23 00-1590	EA			3/8" Diameter x 4-1/8" Long, Welded Stud Concrete Anchors.....	2.69	
05 05 23 00-1591	EA			3/8" Diameter x 5-1/8" Long, Welded Stud Concrete Anchors.....	2.80	
05 05 23 00-1592	EA			3/8" Diameter x 6-1/8" Long, Welded Stud Concrete Anchors.....	2.89	
05 05 23 00-1593	EA			1/2" Diameter x 1-1/2" Long, Welded Stud Concrete Anchors.....	2.74	
05 05 23 00-1594	EA			1/2" Diameter x 1-5/8" Long, Welded Stud Concrete Anchors.....	2.75	
05 05 23 00-1595	EA			1/2" Diameter x 2-1/8" Long, Welded Stud Concrete Anchors.....	2.86	
05 05 23 00-1596	EA			1/2" Diameter x 2-5/8" Long, Welded Stud Concrete Anchors.....	2.95	
05 05 23 00-1597	EA			1/2" Diameter x 3-1/8" Long, Welded Stud Concrete Anchors.....	3.07	
05 05 23 00-1598	EA			1/2" Diameter x 4-1/8" Long, Welded Stud Concrete Anchors.....	3.26	
05 05 23 00-1599	EA			1/2" Diameter x 5-5/16" Long, Welded Stud Concrete Anchors.....	3.38	
05 05 23 00-1600	EA			1/2" Diameter x 6-1/8" Long, Welded Stud Concrete Anchors.....	3.71	
05 05 23 00-1601	EA			1/2" Diameter x 8-1/8" Long, Welded Stud Concrete Anchors.....	4.33	
05 05 23 00-1602	EA			5/8" Diameter x 2-11/16" Long, Welded Stud Concrete Anchors.....	3.57	
05 05 23 00-1603	EA			5/8" Diameter x 3-3/16" Long, Welded Stud Concrete Anchors.....	3.72	
05 05 23 00-1604	EA			5/8" Diameter x 3-11/16" Long, Welded Stud Concrete Anchors.....	3.85	
05 05 23 00-1605	EA			5/8" Diameter x 4-3/16" Long, Welded Stud Concrete Anchors.....	3.98	
05 05 23 00-1606	EA			5/8" Diameter x 4-11/16" Long, Welded Stud Concrete Anchors.....	4.08	
05 05 23 00-1607	EA			5/8" Diameter x 5-3/16" Long, Welded Stud Concrete Anchors.....	4.18	
05 05 23 00-1608	EA			5/8" Diameter x 6-3/16" Long, Welded Stud Concrete Anchors.....	4.31	
05 05 23 00-1609	EA			5/8" Diameter x 6-9/16" Long, Welded Stud Concrete Anchors.....	4.84	
05 05 23 00-1610	EA			5/8" Diameter x 8-3/16" Long, Welded Stud Concrete Anchors.....	5.58	
05 05 23 00-1611	<b>Welded Shear Stud Connector</b> <small>(05 05 23)</small>					
05 05 23 00-1612	<b>3/4" Diameter Welded Shear Stud Connector</b> <small>(05 05 23 00-1611)</small>					
05 05 23 00-1613	EA			3/4" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	4.38	
05 05 23 00-1614	EA			3/4" Diameter x 3-3/8" Long, Welded Shear Stud Connector.....	4.49	
05 05 23 00-1615	EA			3/4" Diameter x 3-7/8" Long, Welded Shear Stud Connector.....	4.52	
05 05 23 00-1616	EA			3/4" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	4.53	
05 05 23 00-1617	EA			3/4" Diameter x 4-3/8" Long, Welded Shear Stud Connector.....	4.66	
05 05 23 00-1618	EA			3/4" Diameter x 4-11/16" Long, Welded Shear Stud Connector.....	4.89	
05 05 23 00-1619	EA			3/4" Diameter x 4-7/8" Long, Welded Shear Stud Connector.....	7.15	
05 05 23 00-1620	EA			3/4" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	5.17	
05 05 23 00-1621	EA			3/4" Diameter x 5-3/8" Long, Welded Shear Stud Connector.....	5.58	
05 05 23 00-1622	EA			3/4" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	8.06	
05 05 23 00-1623	EA			3/4" Diameter x 7-3/16" Long, Welded Shear Stud Connector.....	8.19	
05 05 23 00-1624	EA			3/4" Diameter x 8-3/16" Long, Welded Shear Stud Connector.....	8.64	
05 05 23 00-1625	EA			3/4" Diameter x 10-3/16" Long, Welded Shear Stud Connector.....	10.53	
05 05 23 00-1626	<b>7/8" Diameter Welded Shear Stud Connector</b> <small>(05 05 23 00-1611)</small>					
05 05 23 00-1627	EA			7/8" Diameter x 3-3/16" Long, Welded Shear Stud Connector.....	4.94	
05 05 23 00-1628	EA			7/8" Diameter x 3-11/16" Long, Welded Shear Stud Connector.....	5.12	
05 05 23 00-1629	EA			7/8" Diameter x 4-3/16" Long, Welded Shear Stud Connector.....	5.30	
05 05 23 00-1630	EA			7/8" Diameter x 5-3/16" Long, Welded Shear Stud Connector.....	5.82	
05 05 23 00-1631	EA			7/8" Diameter x 6-3/16" Long, Welded Shear Stud Connector.....	8.34	
05 05 23 00-1632	EA			7/8" Diameter x 7-3/16" Long, Welded Shear Stud Connector.....	8.88	
05 05 23 00-1633	EA			7/8" Diameter x 8-3/16" Long, Welded Shear Stud Connector.....	9.42	
05 05 23 00-1634	EA			7/8" Diameter x 10-3/16" Long, Welded Shear Stud Connector.....	10.94	
05 05 23 00-1635	<b>1" Diameter Welded Shear Stud Connector</b> <small>(05 05 23 00-1611)</small>					
05 05 23 00-1636	EA			1" Diameter x 3-1/4" Long, Welded Shear Stud Connector.....	6.12	
05 05 23 00-1637	EA			1" Diameter x 4-1/4" Long, Welded Shear Stud Connector.....	6.67	
05 05 23 00-1638	EA			1" Diameter x 5-1/4" Long, Welded Shear Stud Connector.....	7.49	
05 05 23 00-1639	EA			1" Diameter x 6-1/4" Long, Welded Shear Stud Connector.....	10.38	
05 05 23 00-1640	EA			1" Diameter x 7-1/4" Long, Welded Shear Stud Connector.....	11.24	
05 05 23 00-1641	EA			1" Diameter x 8-1/4" Long, Welded Shear Stud Connector.....	12.10	



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

05 10 Structural Metal Framing<sup>(05)</sup>05 12 Structural Steel Framing<sup>(05 10)</sup>05 12 23 Structural Steel For Buildings<sup>(05 12)</sup>

Note: Prices are based on ASTM A992/A36 steel with bolted standard beam connections and shop primed with red primer paint. Stock sections only. Includes shop fabrication into sub-assemblies and delivery to site, all connecting bolts, connecting welds, and crane for erection. Excludes moment connection welding. See CSI section 05 12 23 00-0117 for field fabrication of additional structural metal connections, 05 12 23 00-0132 for moment connection welding.

05 12 23 00-0001	Rolled Steel Members <sup>(05 12 23)</sup>		
05 12 23 00-0002	Beams, Girders And Columns <sup>(05 12 23 00-0001)</sup>		
	Note: For one and two story I beams and W shapes and HP shapes.		
05 12 23 00-0003	TON Up To 30 LB/LF Beams, Girders And Columns .....	6,327.70	987.82
	For ASTM A242 Type 2 High Strength Steel, Add	342.73	
	For Hot Dip Galvanizing, Add	1,199.55	
05 12 23 00-0004	TON >30-65 LB/LF Beams, Girders And Columns .....	4,197.21	638.56
	For ASTM A242 Type 2 High Strength Steel, Add	281.28	
	For Hot Dip Galvanizing, Add	984.48	
05 12 23 00-0005	TON >65-100 LB/LF Beams, Girders And Columns .....	3,504.62	359.22
	For ASTM A242 Type 2 High Strength Steel, Add	249.72	
	For Hot Dip Galvanizing, Add	874.01	
05 12 23 00-0006	TON >100-300 LB/LF Beams, Girders And Columns .....	2,338.24	191.20
	For ASTM A242 Type 2 High Strength Steel, Add	170.71	
	For Hot Dip Galvanizing, Add	597.49	
05 12 23 00-0007	Trusses, Built-Up <sup>(05 12 23 00-0001)</sup>		
05 12 23 00-0008	TON Built-Up Trusses, Rolled Structural Steel Members .....	4,451.67	671.80
	For ASTM A242 Type 2 High Strength Steel, Add	298.84	
	For Hot Dip Galvanizing, Add	1,045.93	
05 12 23 00-0009	Shapes <sup>(05 12 23 00-0001)</sup>		
05 12 23 00-0010	Rolled Shape Steel Angles <sup>(05 12 23 00-0009)</sup>		
05 12 23 00-0011	TON Up To 10 LB/LF Rolled Shape Steel Angles .....	9,247.45	1,836.36
	For ASTM A242 Type 2 High Strength Steel, Add	494.95	
	For Hot Dip Galvanizing, Add	1,732.32	
05 12 23 00-0012	TON >10-20 LB/LF Rolled Shape Steel Angles .....	7,961.96	1,077.67
	For ASTM A242 Type 2 High Strength Steel, Add	473.47	
	For Hot Dip Galvanizing, Add	1,657.14	
05 12 23 00-0013	TON >20-58 LB/LF Rolled Shape Steel Angles .....	5,887.39	638.56
	For ASTM A242 Type 2 High Strength Steel, Add	416.50	
	For Hot Dip Galvanizing, Add	1,457.76	
05 12 23 00-0014	Rolled C, MC Steel Channels <sup>(05 12 23 00-0009)</sup>		
05 12 23 00-0015	TON Up To 10 LB/LF Rolled C, MC Steel Channels .....	10,304.17	2,514.57
	For ASTM A242 Type 2 High Strength Steel, Add	487.48	
	For Hot Dip Galvanizing, Add	1,706.17	
05 12 23 00-0016	TON >10-20 LB/LF Rolled C, MC Steel Channels .....	7,880.24	1,915.87
	For ASTM A242 Type 2 High Strength Steel, Add	466.93	
	For Hot Dip Galvanizing, Add	1,634.26	
05 12 23 00-0017	TON >20-58 LB/LF Rolled C, MC Steel Channels .....	5,794.00	638.56
	For ASTM A242 Type 2 High Strength Steel, Add	409.03	
	For Hot Dip Galvanizing, Add	1,431.61	
05 12 23 00-0018	Double L Shape Steel Angles <sup>(05 12 23 00-0009)</sup>		
05 12 23 00-0019	TON Up To 20 LB/LF Double L Shape Steel Angles .....	8,503.89	1,457.01
	For ASTM A242 Type 2 High Strength Steel, Add	476.27	
	For Hot Dip Galvanizing, Add	1,666.95	
05 12 23 00-0020	TON >20-50 LB/LF Double L Shape Steel Angles .....	6,284.28	638.56
	For ASTM A242 Type 2 High Strength Steel, Add	448.26	
	For Hot Dip Galvanizing, Add	1,568.89	
05 12 23 00-0021	TON >50-80 LB/LF Double L Shape Steel Angles .....	4,702.29	359.22
	For ASTM A242 Type 2 High Strength Steel, Add	345.53	
	For Hot Dip Galvanizing, Add	1,209.35	
05 12 23 00-0022	TON >80-115 LB/LF Double L Shape Steel Angles .....	3,005.63	191.49
	For ASTM A242 Type 2 High Strength Steel, Add	224.13	
	For Hot Dip Galvanizing, Add	784.45	
05 12 23 00-0023	Structural WT, MT, ST Tee Shapes <sup>(05 12 23 00-0001)</sup>		
05 12 23 00-0024	TON Up To 30 LB/LF Structural WT, MT, ST Tee Shapes .....	7,646.78	1,077.67
	For ASTM A242 Type 2 High Strength Steel, Add	448.26	
	For Hot Dip Galvanizing, Add	1,568.89	
05 12 23 00-0025	TON >30-65 LB/LF Structural WT, MT, ST Tee Shapes .....	4,965.30	638.56
	For ASTM A242 Type 2 High Strength Steel, Add	342.73	
	For Hot Dip Galvanizing, Add	1,199.55	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0026 TON >65-100 LB/LF Structural WT, MT, ST Tee Shapes ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	3,885.16 280.16 980.56	359.22
05 12 23 00-0027 TON >100-365 LB/LF Structural WT, MT, ST Tee Shapes ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	2,842.53 211.05 738.69	191.20
<b>05 12 23 00-0028 Combination Section Shapes</b> (05 12 23 00-0001)		
<b>05 12 23 00-0029 Combination Section, W Shapes And Angles</b> (05 12 23 00-0028)		
05 12 23 00-0030 TON Up To 30 LB/LF Combination Section - W Shapes And Angles ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	7,284.90 419.30 1,467.57	1,077.67
05 12 23 00-0031 TON >30-65 LB/LF Combination Section - W Shapes And Angles ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,000.33 345.53 1,209.36	638.56
05 12 23 00-0032 TON >65-100 LB/LF Combination Section - W Shapes And Angles ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	3,593.33 256.81 898.84	359.22
05 12 23 00-0033 TON >100-300 LB/LF Combination Section - W Shapes And Angles ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	3,075.68 229.73 804.06	191.20
05 12 23 00-0034 TON >300-500 LB/LF Combination Section - W Shapes And Angles ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	2,635.29 202.65 709.27	95.99
<b>05 12 23 00-0035 Combination Section, S Shapes And Angles</b> (05 12 23 00-0028)		
05 12 23 00-0036 TON >30-65 LB/LF Combination Section - S Shapes And Angles ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	4,813.55 330.59 1,157.06	638.56
05 12 23 00-0037 TON >65-100 LB/LF Combination Section - S Shapes And Angles ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	3,605.00 257.75 902.11	359.22
<b>05 12 23 00-0038 Combination Section, Channels And Angles</b> (05 12 23 00-0028)		
05 12 23 00-0039 TON Up To 30 LB/LF Combination Section - Channels And Angles ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	7,646.78 448.26 1,568.89	1,077.67
05 12 23 00-0040 TON >30-65 LB/LF Combination Section - Channels And Angles ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,233.79 364.21 1,274.73	638.56
05 12 23 00-0041 TON >65-100 LB/LF Combination Section - Channels And Angles ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	3,686.72 264.28 924.99	359.22
<b>05 12 23 00-0042 Standard Weight Pipe</b> (05 12 23 00-0001)		
05 12 23 00-0043 TON 1/2" To 5" Diameter Standard Weight Pipe ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	4,255.15 291.37 1,019.78	574.76
05 12 23 00-0044 TON >5" To 12" Diameter Standard Weight Pipe ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	4,571.85 304.44 1,065.54	718.45
<b>05 12 23 00-0045 Structural Steel Shapes</b> (05 12 23)		
<b>05 12 23 00-0046 Steel Rods</b> (05 12 23 00-0045)		
05 12 23 00-0047 TON 1/2" To 5" Diameter Extra Strong Steel, Solid ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	4,541.28 324.98 1,137.45	449.08
05 12 23 00-0048 TON >5" To 12" Diameter Extra Strong Steel, Solid ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	5,233.79 364.21 1,274.73	638.56
<b>05 12 23 00-0049 Column Base Plates</b> (05 12 23 00-0045)		
05 12 23 00-0050 LB Column Base Plates, Up To 150 LB / Each, A36 Miscellaneous Steel Items ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	2.38 0.14 0.49	0.60
05 12 23 00-0051 LB Column Base Plates, >150 LB / Each, A36 Miscellaneous Steel Items ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	2.23 0.13 0.46	0.51
05 12 23 00-0052 TON Column Base Plates, Up To 150 LB Each, A36 Miscellaneous Steel Items ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	4,182.68 288.88 1,011.08	535.96
05 12 23 00-0053 TON Column Base Plates, >150 LB Each, A36 Miscellaneous Steel Items ..... <i>For ASTM A242 Type 2 High Strength Steel, Add For Hot Dip Galvanizing, Add</i>	2,954.81 208.94 731.30	321.58

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0054			<b>Double Extra Strong Pipes</b> (05 12 23 00-0045)		
05 12 23 00-0055	TON		2" To 5" Diameter Double Extra Strong Pipe .....5,521.80	5,521.80	821.05
			For ASTM A242 Type 2 High Strength Steel, Add	371.68	
			For Hot Dip Galvanizing, Add	1,300.87	
05 12 23 00-0056	TON		>5" To 8" Diameter Double Extra Strong Pipe .....5,117.58	5,117.58	442.09
			For ASTM A242 Type 2 High Strength Steel, Add	371.68	
			For Hot Dip Galvanizing, Add	1,300.87	
05 12 23 00-0057			<b>Structural Pipes</b> (05 12 23 00-0045)		
05 12 23 00-0058	TON		3" To 5" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items .....3,852.19	3,852.19	379.34
			For ASTM A242 Type 2 High Strength Steel, Add	261.48	
			For Hot Dip Galvanizing, Add	915.19	
05 12 23 00-0059	TON		>5" To 12" Outside Diameter Structural Pipe, Extra Heavy A36 Miscellaneous Steel Items .....4,233.70	4,233.70	437.49
			For ASTM A242 Type 2 High Strength Steel, Add	261.48	
			For Hot Dip Galvanizing, Add	915.19	
05 12 23 00-0060			<b>Structural Tubing</b> (05 12 23 00-0045)		
05 12 23 00-0061			<b>Rectangle Structural Tubing</b> (05 12 23 00-0060)		
05 12 23 00-0062	TON		3" x 2" Weight Range 5-7 LB/LF Structural Tubing - Rectangle .....6,245.36	6,245.36	383.17
			For ASTM A242 Type 2 High Strength Steel, Add	466.93	
			For Hot Dip Galvanizing, Add	1,634.26	
05 12 23 00-0063	TON		4" x 3", 2" Weight Range 6-13 LB/LF Structural Tubing - Rectangle .....6,308.25	6,308.25	442.09
			For ASTM A242 Type 2 High Strength Steel, Add	466.93	
			For Hot Dip Galvanizing, Add	1,634.26	
05 12 23 00-0064	TON		5" x 4", 2" Weight Range 8-20 LB/LF Structural Tubing - Rectangle .....5,530.42	5,530.42	478.97
			For ASTM A242 Type 2 High Strength Steel, Add	401.56	
			For Hot Dip Galvanizing, Add	1,405.47	
05 12 23 00-0065	TON		6" x 4", 3", 2" Weight Range 9-29 LB/LF Structural Tubing - Rectangle .....5,282.40	5,282.40	574.76
			For ASTM A242 Type 2 High Strength Steel, Add	373.55	
			For Hot Dip Galvanizing, Add	1,307.41	
05 12 23 00-0066	TON		7" x 5", 4", 3" Weight Range 12-35 LB/LF Structural Tubing - Rectangle .....5,000.32	5,000.32	638.56
			For ASTM A242 Type 2 High Strength Steel, Add	345.53	
			For Hot Dip Galvanizing, Add	1,209.35	
05 12 23 00-0067	TON		8" x 6", 4", 3", 2" Weight Range 11-42 LB/LF Structural Tubing - Rectangle .....5,261.74	5,261.74	883.69
			For ASTM A242 Type 2 High Strength Steel, Add	345.53	
			For Hot Dip Galvanizing, Add	1,209.35	
05 12 23 00-0068	TON		10" x 6", 4", 2" Weight Range 15-50 LB/LF Structural Tubing - Rectangle .....5,658.60	5,658.60	1,168.20
			For ASTM A242 Type 2 High Strength Steel, Add	353.00	
			For Hot Dip Galvanizing, Add	1,235.50	
05 12 23 00-0069	TON		12" x 6", 4", 2" Weight Range 17-76 LB/LF Structural Tubing - Rectangle .....5,820.39	5,820.39	1,276.06
			For ASTM A242 Type 2 High Strength Steel, Add	356.74	
			For Hot Dip Galvanizing, Add	1,248.58	
05 12 23 00-0070	TON		14" x 10", 6", 4" Weight Range 29-76 LB/LF Structural Tubing - Rectangle .....5,991.90	5,991.90	1,436.90
			For ASTM A242 Type 2 High Strength Steel, Add	356.74	
			For Hot Dip Galvanizing, Add	1,248.58	
05 12 23 00-0071	TON		16" x 12", 8", 4" Weight Range 40-90 LB/LF Structural Tubing - Rectangle .....7,632.45	7,632.45	3,018.74
			For ASTM A242 Type 2 High Strength Steel, Add	353.00	
			For Hot Dip Galvanizing, Add	1,235.50	
05 12 23 00-0072	TON		18" x 6" Weight Range 48-76 LB/LF Structural Tubing - Rectangle .....6,339.37	6,339.37	1,915.87
			For ASTM A242 Type 2 High Strength Steel, Add	343.66	
			For Hot Dip Galvanizing, Add	1,202.82	
05 12 23 00-0073	TON		20" x 12", 8", 4" Weight Range 48-105 LB/LF Structural Tubing - Rectangle .....9,230.75	9,230.75	4,407.74
			For ASTM A242 Type 2 High Strength Steel, Add	362.34	
			For Hot Dip Galvanizing, Add	1,268.19	
05 12 23 00-0074			<b>Square Structural Tubing</b> (05 12 23 00-0060)		
05 12 23 00-0075	TON		2" x 2" Weight Range 4-6 LB/LF Structural Tubing - Square .....6,219.82	6,219.82	359.22
			For ASTM A242 Type 2 High Strength Steel, Add	466.93	
			For Hot Dip Galvanizing, Add	1,634.26	
05 12 23 00-0076	TON		2.5" x 2.5" Weight Range 5-8 LB/LF Structural Tubing - Square .....6,245.36	6,245.36	383.17
			For ASTM A242 Type 2 High Strength Steel, Add	466.93	
			For Hot Dip Galvanizing, Add	1,634.26	
05 12 23 00-0077	TON		3" x 3" Weight Range 6-11 LB/LF Structural Tubing - Square .....5,647.16	5,647.16	478.97
			For ASTM A242 Type 2 High Strength Steel, Add	410.90	
			For Hot Dip Galvanizing, Add	1,438.15	
05 12 23 00-0078	TON		3.5" x 3.5" Weight Range 8-13 LB/LF Structural Tubing - Square .....5,632.60	5,632.60	574.76
			For ASTM A242 Type 2 High Strength Steel, Add	401.56	
			For Hot Dip Galvanizing, Add	1,405.47	
05 12 23 00-0079	TON		4" x 4" Weight Range 10-22 LB/LF Structural Tubing - Square .....4,595.20	4,595.20	718.45
			For ASTM A242 Type 2 High Strength Steel, Add	306.31	
			For Hot Dip Galvanizing, Add	1,072.08	
05 12 23 00-0080	TON		5" x 5" Weight Range 12-30 LB/LF Structural Tubing - Square .....4,704.67	4,704.67	821.05
			For ASTM A242 Type 2 High Strength Steel, Add	306.31	
			For Hot Dip Galvanizing, Add	1,072.08	
05 12 23 00-0081	TON		6" x 6" Weight Range 15-35 LB/LF Structural Tubing - Square .....5,055.00	5,055.00	1,149.52
			For ASTM A242 Type 2 High Strength Steel, Add	306.31	
			For Hot Dip Galvanizing, Add	1,072.08	
05 12 23 00-0082	TON		7" x 7" Weight Range 17-42 LB/LF Structural Tubing - Square .....5,431.59	5,431.59	1,436.90
			For ASTM A242 Type 2 High Strength Steel, Add	311.91	
			For Hot Dip Galvanizing, Add	1,091.69	



<b>Metals</b>	<b>05</b>
Structural Metal Framing	05 10
Structural Steel Framing	05 12

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0083 TON 8" x 8" Weight Range 20-60 LB/LF Structural Tubing - Square ..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	6,572.83 362.34 1,268.19	1,915.87
05 12 23 00-0084 TON 10" x 10" Weight Range 33-77 LB/LF Structural Tubing - Square ..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	7,594.62 362.34 1,268.19	2,873.80
05 12 23 00-0085 TON 12" x 12" Weight Range 40-80 LB/LF Structural Tubing - Square ..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	7,496.76 311.91 1,091.69	3,372.98
05 12 23 00-0086 TON 14" x 14" Weight Range 57-90 LB/LF Structural Tubing - Square ..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	9,137.37 354.87 1,242.04	4,407.74
05 12 23 00-0087 TON 16" x 16" Weight Range 65-105 LB/LF Structural Tubing - Square ..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i>	10,660.01 362.34 1,268.19	5,747.60
<b>05 12 23 00-0088 Structural Shapes (05 12 23 00-0045)</b>		
05 12 23 00-0089 TON Structural Shapes, Steel Angle A36 Structural Steel, Purlins And Girts (Up To 20 LB/LF)..... <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For &gt;20 To 50 LB/LF, Deduct</i> <i>For &gt;50 To 75 LB/LF, Deduct</i> <i>For &gt;75 To 100 LB/LF, Deduct</i>	7,329.88 314.16 1,099.56 -903.13 -1,439.77 -1,976.41	2,143.82
05 12 23 00-0090 TON Structural Shapes, Steel Plate A36 Structural Steel ..... Note: Up to 21.5 LB per SF <i>For ASTM A242 Type 2 High Strength Steel, Add</i> <i>For Hot Dip Galvanizing, Add</i> <i>For &gt;21.5 To 50 LB/LF, Deduct</i>	4,875.87 298.84 1,045.95 -544.60	857.52
05 12 23 00-0091 LB Structural Shapes, Primed Pipe Supports (Up To 20 LB/LF).....	2.81	0.19
05 12 23 00-0092 LB Structural Shapes, Galvanized Pipe Supports.....	3.40	0.19
<b>05 12 23 00-0093 Built-Up Trusses (05 12 23 00-0045)</b>		
05 12 23 00-0094 TON Up To 50 LF Span Average Weight 100 LB/LF Trusses, Built-up.....	5,057.58	287.38
05 12 23 00-0095 TON >50-100 LF Span Average Weight 120 LB/LF Trusses, Built-up .....	4,968.03	159.59
05 12 23 00-0096 TON >100-200 LF Span Average Weight 150 LB/LF Trusses, Built-up .....	4,409.28	84.49
05 12 23 00-0097 TON >200 LF Span Average Weight 180 LB/LF Trusses, Built-up .....	4,287.54	79.89
<b>05 12 23 00-0098 Masonry Plates, Filler Plates, Sole Plates And Anchor Straps (05 12 23 00-0045)</b>		
Note: Includes shop fabrication, welds, drilling and shop primer.		
05 12 23 00-0099 SF 1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	18.39	6.17
05 12 23 00-0100 SF 3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	27.58	9.23
05 12 23 00-0101 SF 1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	36.76	12.31
05 12 23 00-0102 SF 5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	45.96	15.39
05 12 23 00-0103 SF 3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	55.16	18.38
05 12 23 00-0104 SF 7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	64.35	21.54
05 12 23 00-0105 SF 1" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	73.54	24.62
05 12 23 00-0106 SF 1-1/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	82.74	27.70
05 12 23 00-0107 SF 1-1/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	91.92	30.77
05 12 23 00-0108 SF 1-3/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	101.11	33.85
05 12 23 00-0109 SF 1-1/2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	110.30	36.93
05 12 23 00-0110 SF 1-5/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	119.50	40.01
05 12 23 00-0111 SF 1-3/4" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	128.69	43.08
05 12 23 00-0112 SF 1-7/8" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	137.89	46.16
05 12 23 00-0113 SF 2" Masonry Plates, Filler Plates, Sole Plates And Anchor Straps .....	147.08	49.24
<b>05 12 23 00-0114 Accessories For Steel (05 12 23)</b>		
<b>05 12 23 00-0115 Field Painting For Touch-Up Of Shop Prime Coat (05 12 23 00-0114)</b>		
05 12 23 00-0116 SF Touch Up Paint - Type 1 Red Oxide Field Painting Prime Coat.....	0.74	
<b>05 12 23 00-0117 Connection And Stiffener Plates (05 12 23 00-0114)</b>		
Note: For field fabrication of additional structural metal connections.		
05 12 23 00-0118 TON 1/8" Plate Weight 6.16 LB/SF Connection And Stiffener Plates.....	10,784.13	
05 12 23 00-0119 TON 3/16" Plate Weight 8.71 LB/SF Connection And Stiffener Plates.....	9,200.97	
05 12 23 00-0120 TON 1/4" Plate Weight 11.26 LB/SF Connection And Stiffener Plates.....	7,115.30	
05 12 23 00-0121 TON 5/16" Plate Weight 13.81 LB/SF Connection And Stiffener Plates.....	7,115.30	
05 12 23 00-0122 TON 3/8" Plate Weight 16.37 LB/SF Connection And Stiffener Plates.....	7,115.30	
05 12 23 00-0123 TON 1/2" Plate Weight 21.47 LB/SF Connection And Stiffener Plates.....	7,115.30	
05 12 23 00-0124 TON 9/16" Plate Weight 24.02 LB/SF Connection And Stiffener Plates.....	7,115.30	
05 12 23 00-0125 TON 5/8" Plate Weight 26.58 LB/SF Connection And Stiffener Plates.....	7,115.30	
05 12 23 00-0126 TON 3/4" Plate Weight 31.68 LB/SF Connection And Stiffener Plates.....	6,670.60	
05 12 23 00-0127 TON 7/8" Plate Weight 36.78 LB/SF Connection And Stiffener Plates.....	6,670.60	
05 12 23 00-0128 TON 1" Plate Weight 41.89 LB/SF Connection And Stiffener Plates.....	6,670.60	
<b>05 12 23 00-0129 Spot Welding (05 12 23 00-0114)</b>		
See CSI section 05 12 23 00-0132 for a series of welds.		

05	05	Metals
	05 10	Structural Metal Framing
	05 12	Structural Steel Framing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0130 EA Up To 15 Spot Weldings, Welds Up To 1" Length Each.....	9.57	
<i>For Aluminum Welding, Add</i>	1.48	
<i>For Stainless Steel Welding, Add</i>	2.45	
05 12 23 00-0131 EA >15 Spot Weldings, Welds Up To 1" Length Each.....	7.46	
<i>For Aluminum Welding, Add</i>	1.16	
<i>For Stainless Steel Welding, Add</i>	1.92	
<b>05 12 23 00-0132 Field Welding (Seam And Stitch Welding)</b> <small>(05 12 23 00-0114)</small>		
<b>05 12 23 00-0133 Vertical Fillet Welds</b> <small>(05 12 23 00-0132)</small>		
<small>Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.</small>		
05 12 23 00-0134 LF 1/8" Vertical Fillet Weld.....	5.95	
<i>For Aluminum Welding, Add</i>	1.10	
<i>For Stainless Steel Welding, Add</i>	1.75	
<i>For Up To 25, Add</i>	2.00	
<i>For &gt;25 To 50, Add</i>	1.42	
05 12 23 00-0135 LF 3/16" Vertical Fillet Weld.....	11.65	
<i>For Aluminum Welding, Add</i>	2.01	
<i>For Stainless Steel Welding, Add</i>	3.24	
<i>For Up To 25, Add</i>	3.97	
<i>For &gt;25 To 50, Add</i>	2.82	
05 12 23 00-0136 LF 1/4" Vertical Fillet Weld.....	17.46	
<i>For Aluminum Welding, Add</i>	3.02	
<i>For Stainless Steel Welding, Add</i>	4.86	
<i>For Up To 25, Add</i>	5.95	
<i>For &gt;25 To 50, Add</i>	4.23	
05 12 23 00-0137 LF 5/16" Vertical Fillet Weld.....	23.03	
<i>For Aluminum Welding, Add</i>	3.99	
<i>For Stainless Steel Welding, Add</i>	6.43	
<i>For Up To 25, Add</i>	7.84	
<i>For &gt;25 To 50, Add</i>	5.58	
05 12 23 00-0138 LF 3/8" Vertical Fillet Weld.....	29.10	
<i>For Aluminum Welding, Add</i>	5.03	
<i>For Stainless Steel Welding, Add</i>	8.10	
<i>For Up To 25, Add</i>	9.91	
<i>For &gt;25 To 50, Add</i>	7.06	
05 12 23 00-0139 LF 7/16" Vertical Fillet Weld.....	34.04	
<i>For Aluminum Welding, Add</i>	5.63	
<i>For Stainless Steel Welding, Add</i>	9.16	
<i>For Up To 25, Add</i>	11.70	
<i>For &gt;25 To 50, Add</i>	8.34	
05 12 23 00-0140 LF 1/2" Vertical Fillet Weld.....	39.78	
<i>For Aluminum Welding, Add</i>	6.89	
<i>For Stainless Steel Welding, Add</i>	11.10	
<i>For Up To 25, Add</i>	13.54	
<i>For &gt;25 To 50, Add</i>	9.64	
05 12 23 00-0141 LF 9/16" Vertical Fillet Weld.....	46.71	
<i>For Aluminum Welding, Add</i>	7.83	
<i>For Stainless Steel Welding, Add</i>	12.71	
<i>For Up To 25, Add</i>	16.00	
<i>For &gt;25 To 50, Add</i>	11.40	
05 12 23 00-0142 LF 5/8" Vertical Fillet Weld.....	54.14	
<i>For Aluminum Welding, Add</i>	9.10	
<i>For Stainless Steel Welding, Add</i>	14.76	
<i>For Up To 25, Add</i>	18.54	
<i>For &gt;25 To 50, Add</i>	13.21	
05 12 23 00-0143 LF 3/4" Vertical Fillet Weld.....	72.81	
<i>For Aluminum Welding, Add</i>	12.60	
<i>For Stainless Steel Welding, Add</i>	20.30	
<i>For Up To 25, Add</i>	24.78	
<i>For &gt;25 To 50, Add</i>	17.64	
05 12 23 00-0144 LF 7/8" Vertical Fillet Weld.....	108.13	
<i>For Aluminum Welding, Add</i>	18.09	
<i>For Stainless Steel Welding, Add</i>	29.37	
<i>For Up To 25, Add</i>	37.07	
<i>For &gt;25 To 50, Add</i>	26.41	
05 12 23 00-0145 LF 1" Vertical Fillet Weld.....	145.25	
<i>For Aluminum Welding, Add</i>	24.93	
<i>For Stainless Steel Welding, Add</i>	40.24	
<i>For Up To 25, Add</i>	49.53	
<i>For &gt;25 To 50, Add</i>	35.27	
<b>05 12 23 00-0146 Horizontal Or Flat Fillet Welds</b> <small>(05 12 23 00-0132)</small>		
<small>Note: For existing steel and moment connections. Includes tack welds for proper alignment until the final welds are made.</small>		
05 12 23 00-0147 LF 1/8" Horizontal Or Flat Fillet Weld.....	4.99	
<i>For Aluminum Welding, Add</i>	0.96	
<i>For Stainless Steel Welding, Add</i>	1.51	
<i>For Up To 25, Add</i>	1.66	
<i>For &gt;25 To 50, Add</i>	1.18	





	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0148	LF		3/16" Horizontal Or Flat Fillet Weld.....	9.83	
			<i>For Aluminum Welding, Add</i>	1.75	
			<i>For Stainless Steel Welding, Add</i>	2.80	
			<i>For Up To 25, Add</i>	3.33	
			<i>For &gt;25 To 50, Add</i>	2.37	
05 12 23 00-0149	LF		1/4" Horizontal Or Flat Fillet Weld.....	14.69	
			<i>For Aluminum Welding, Add</i>	2.62	
			<i>For Stainless Steel Welding, Add</i>	4.19	
			<i>For Up To 25, Add</i>	4.97	
			<i>For &gt;25 To 50, Add</i>	3.53	
05 12 23 00-0150	LF		5/16" Horizontal Or Flat Fillet Weld.....	19.41	
			<i>For Aluminum Welding, Add</i>	3.48	
			<i>For Stainless Steel Welding, Add</i>	5.56	
			<i>For Up To 25, Add</i>	6.56	
			<i>For &gt;25 To 50, Add</i>	4.66	
05 12 23 00-0151	LF		3/8" Horizontal Or Flat Fillet Weld.....	24.52	
			<i>For Aluminum Welding, Add</i>	4.37	
			<i>For Stainless Steel Welding, Add</i>	6.99	
			<i>For Up To 25, Add</i>	8.29	
			<i>For &gt;25 To 50, Add</i>	5.90	
05 12 23 00-0152	LF		7/16" Horizontal Or Flat Fillet Weld.....	28.57	
			<i>For Aluminum Welding, Add</i>	4.84	
			<i>For Stainless Steel Welding, Add</i>	7.83	
			<i>For Up To 25, Add</i>	9.77	
			<i>For &gt;25 To 50, Add</i>	6.96	
05 12 23 00-0153	LF		1/2" Horizontal Or Flat Fillet Weld.....	33.46	
			<i>For Aluminum Welding, Add</i>	5.99	
			<i>For Stainless Steel Welding, Add</i>	9.57	
			<i>For Up To 25, Add</i>	11.31	
			<i>For &gt;25 To 50, Add</i>	8.04	
05 12 23 00-0154	LF		9/16" Horizontal Or Flat Fillet Weld.....	39.28	
			<i>For Aluminum Welding, Add</i>	6.77	
			<i>For Stainless Steel Welding, Add</i>	10.92	
			<i>For Up To 25, Add</i>	13.38	
			<i>For &gt;25 To 50, Add</i>	9.53	
05 12 23 00-0155	LF		5/8" Horizontal Or Flat Fillet Weld.....	45.65	
			<i>For Aluminum Welding, Add</i>	7.99	
			<i>For Stainless Steel Welding, Add</i>	12.84	
			<i>For Up To 25, Add</i>	15.50	
			<i>For &gt;25 To 50, Add</i>	11.03	
05 12 23 00-0156	LF		3/4" Horizontal Or Flat Fillet Weld.....	61.30	
			<i>For Aluminum Welding, Add</i>	10.95	
			<i>For Stainless Steel Welding, Add</i>	17.52	
			<i>For Up To 25, Add</i>	20.72	
			<i>For &gt;25 To 50, Add</i>	14.74	
05 12 23 00-0157	LF		7/8" Horizontal Or Flat Fillet Weld.....	90.42	
			<i>For Aluminum Welding, Add</i>	15.31	
			<i>For Stainless Steel Welding, Add</i>	24.79	
			<i>For Up To 25, Add</i>	30.92	
			<i>For &gt;25 To 50, Add</i>	22.02	
05 12 23 00-0158	LF		1" Horizontal Or Flat Fillet Weld.....	121.87	
			<i>For Aluminum Welding, Add</i>	21.57	
			<i>For Stainless Steel Welding, Add</i>	34.58	
			<i>For Up To 25, Add</i>	41.28	
			<i>For &gt;25 To 50, Add</i>	29.37	
05 12 23 00-0159			<b>Cold Galvanizing</b> <small>(05 12 23 00-0114)</small>		
05 12 23 00-0160	SF		Brush Applied Cold Galvanizing.....	1.53	
05 12 23 00-0161			<b>Metal Grinding</b> <small>(05 12 23 00-0114)</small>		
			Note: For use to prepare existing metal for welding by removing of rust or scale and smoothing surface after torch cutting.		
05 12 23 00-0162	SI		Metal Grinding Up To 1/32" Thickness To Be Removed.....	1.01	
			Note: Includes rust or scale removal on metal and smoothing surface.		
05 12 23 00-0163			<b>Structural Steel For Buildings And Structures</b> <small>(05 12 23)</small>		
05 12 23 00-0164			<b>First Tier A992/A36 Structural Steel Columns, W Shapes</b> <small>(05 12 23 00-0163)</small>		
			Note: With base plate. Includes material delivery and erection.		
05 12 23 00-0165	LF		W14 x 730 A992/A36 Structural Column .....	1,026.42	59.47
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	92.38	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	205.28	
05 12 23 00-0166	LF		W14 x 665 A992/A36 Structural Column .....	936.36	55.42
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	84.27	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	187.27	
05 12 23 00-0167	LF		W14 x 605 A992/A36 Structural Column .....	853.12	51.58
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	76.78	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	170.62	
05 12 23 00-0168	LF		W14 x 550 A992/A36 Structural Column .....	776.73	47.99
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	69.91	
			<i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	155.35	

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0169	LF		W14 x 500 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	712.77 64.15 142.55	49.81
05 12 23 00-0170	LF		W14 x 426 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	608.33 54.75 121.67	43.49
05 12 23 00-0171	LF		W14 x 342 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	492.40 44.32 98.48	37.65
05 12 23 00-0172	LF		W14 x 311 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	443.75 39.94 88.75	35.15
05 12 23 00-0173	LF		W14 x 283 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	403.02 36.27 80.60	33.15
05 12 23 00-0174	LF		W14 x 257 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	354.70 31.92 70.94	31.42
05 12 23 00-0175	LF		W14 x 233 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	326.49 29.38 65.30	29.22
05 12 23 00-0176	LF		W14 x 211 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	290.65 26.16 58.13	27.20
05 12 23 00-0177	LF		W14 x 193 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	263.13 23.68 52.63	25.86
05 12 23 00-0178	LF		W14 x 176 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	237.44 21.37 47.49	24.71
05 12 23 00-0179	LF		W14 x 159 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	214.98 19.35 43.00	23.85
05 12 23 00-0180	LF		W14 x 145 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	207.77 18.70 41.55	23.09
05 12 23 00-0181	LF		W14 x 132 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	178.13 16.03 35.63	22.04
05 12 23 00-0182	LF		W14 x 120 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	167.18 15.05 33.44	21.46
05 12 23 00-0183	LF		W14 x 109 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	149.97 13.50 29.99	20.59
05 12 23 00-0184	LF		W14 x 99 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	137.07 12.34 27.41	20.02
05 12 23 00-0185	LF		W14 x 90 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	127.53 11.48 25.51	19.54
05 12 23 00-0186	LF		W14 x 82 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	117.68 10.59 23.54	18.97
05 12 23 00-0187	LF		W14 x 74 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	106.52 9.59 21.30	18.48
05 12 23 00-0188	LF		W14 x 68 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	99.68 8.97 19.94	18.20
05 12 23 00-0189	LF		W14 x 61 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	91.12 8.20 18.22	17.72
05 12 23 00-0190	LF		W14 x 53 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	83.22 7.49 16.64	17.24
05 12 23 00-0191	LF		W14 x 48 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	78.13 7.03 15.63	16.95
05 12 23 00-0192	LF		W14 x 43 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	70.76 6.37 14.15	16.67
05 12 23 00-0193	LF		W12 x 336 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	467.92 42.11 93.58	26.48
05 12 23 00-0194	LF		W12 x 305 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	426.79 38.41 85.36	25.96
05 12 23 00-0195	LF		W12 x 279 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	392.43 35.32 78.49	25.64
05 12 23 00-0196	LF		W12 x 252 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	356.42 32.08 71.28	25.00



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0197	LF		W12 x 230 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	327.25 29.45 65.45	24.64
05 12 23 00-0198	LF		W12 x 210 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	300.71 27.06 60.14	24.30
05 12 23 00-0199	LF		W12 x 190 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	276.89 24.92 55.38	26.44
05 12 23 00-0200	LF		W12 x 170 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	250.54 22.55 50.11	25.67
05 12 23 00-0201	LF		W12 x 152 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	226.00 20.34 45.20	23.85
05 12 23 00-0202	LF		W12 x 136 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	214.95 19.35 42.99	23.19
05 12 23 00-0203	LF		W12 x 120 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	163.49 14.71 32.70	21.27
05 12 23 00-0204	LF		W12 x 106 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	150.84 13.58 30.17	20.59
05 12 23 00-0205	LF		W12 x 96 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	135.23 12.17 27.05	19.93
05 12 23 00-0206	LF		W12 x 87 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	124.93 11.24 24.99	19.25
05 12 23 00-0207	LF		W12 x 79 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	109.98 9.90 22.00	18.68
05 12 23 00-0208	LF		W12 x 72 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	100.86 9.08 20.17	18.20
05 12 23 00-0209	LF		W12 x 65 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	92.42 8.32 18.48	17.82
05 12 23 00-0210	LF		W12 x 58 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	89.51 8.06 17.90	17.63
05 12 23 00-0211	LF		W12 x 53 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	83.22 7.49 16.64	17.24
05 12 23 00-0212	LF		W12 x 50 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	80.72 7.26 16.14	17.14
05 12 23 00-0213	LF		W12 x 45 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	73.57 6.62 14.71	16.76
05 12 23 00-0214	LF		W12 x 40 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	66.21 5.96 13.24	16.38
05 12 23 00-0215	LF		W10 x 112 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	157.66 14.19 31.53	20.98
05 12 23 00-0216	LF		W10 x 110 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	142.83 12.85 28.57	20.12
05 12 23 00-0217	LF		W10 x 88 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	128.64 11.58 25.73	19.44
05 12 23 00-0218	LF		W10 x 77 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	114.67 10.32 22.93	18.68
05 12 23 00-0219	LF		W10 x 68 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	103.50 9.32 20.70	18.20
05 12 23 00-0220	LF		W10 x 60 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	91.12 8.20 18.22	17.72
05 12 23 00-0221	LF		W10 x 54 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	90.50 8.15 18.10	17.44
05 12 23 00-0222	LF		W10 x 49 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	79.76 7.18 15.95	17.14
05 12 23 00-0223	LF		W10 x 45 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	77.06 6.94 15.41	16.86
05 12 23 00-0224	LF		W10 x 39 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	67.40 6.07 13.48	16.57

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0225	LF		W10 x 33 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	59.05 5.31 11.81	16.09
05 12 23 00-0226	LF		W8 x 67 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	99.79 8.98 19.96	18.20
05 12 23 00-0227	LF		W8 x 58 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	89.83 8.08 17.97	17.63
05 12 23 00-0228	LF		W8 x 48 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	80.63 7.26 16.13	17.14
05 12 23 00-0229	LF		W8 x 40 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	69.56 6.26 13.91	16.67
05 12 23 00-0230	LF		W8 x 35 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	63.07 5.68 12.61	16.29
05 12 23 00-0231	LF		W8 x 31 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	57.85 5.21 11.57	16.09
05 12 23 00-0232	LF		W8 x 28 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	54.61 4.91 10.92	15.90
05 12 23 00-0233	LF		W8 x 24 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	50.70 4.56 10.14	15.71
05 12 23 00-0234	LF		W8 x 21 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	48.11 4.33 9.62	15.62
05 12 23 00-0235	LF		W8 x 18 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	43.23 3.89 8.65	15.33
05 12 23 00-0236	LF		W6 x 25 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	53.11 4.78 10.62	15.71
05 12 23 00-0237	LF		W6 x 20 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	45.29 4.08 9.06	15.43
05 12 23 00-0238	LF		W6 x 15 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	39.14 3.52 7.83	14.94
05 12 23 00-0239	LF		W6 x 12 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	36.85 3.32 7.37	14.94
05 12 23 00-0240	LF		W6 x 9 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	33.91 3.05 6.78	14.85
05 12 23 00-0241	LF		W5 x 19 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	44.64 4.02 8.93	15.43
05 12 23 00-0242	LF		W5 x 16 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	41.28 3.72 8.26	15.33
05 12 23 00-0243	LF		W4 x 13 A992/A36 Structural Column ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	38.79 3.49 7.76	15.13
05 12 23 00-0244			<b>A992/A36 Structural Steel Beams And Girders, W Shapes</b> (05 12 23 00-0163) Note: Includes material delivery and erection.		
05 12 23 00-0245	LF		W36 x 300 A992/A36 Structural Beam Or Girder..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	349.77 31.48 69.95 2.80 -112.00 41.97	65.12
05 12 23 00-0246	LF		W36 x 280 A992/A36 Structural Beam Or Girder..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	338.25 30.44 67.65 2.62 -106.89 40.59	71.84
05 12 23 00-0247	LF		W36 x 260 A992/A36 Structural Beam Or Girder..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	321.03 28.89 64.21 2.45 -101.01 38.52	70.98
05 12 23 00-0248	LF		W36 x 240 A992/A36 Structural Beam Or Girder..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	299.95 27.00 59.99 2.33 -94.94 35.99	62.77



	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0249	LF		W36 x 230 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	291.19 26.21 58.24 2.23 -91.73 34.94	63.65
05 12 23 00-0250	LF		W36 x 210 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	277.16 24.94 55.43 2.04 -86.01 33.26	68.68
05 12 23 00-0251	LF		W36 x 194 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	261.85 23.57 52.37 1.97 -81.91 31.42	60.88
05 12 23 00-0252	LF		W36 x 182 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	249.20 22.43 49.84 1.85 -77.55 29.90	60.43
05 12 23 00-0253	LF		W36 x 170 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	236.27 21.26 47.25 1.73 -73.14 28.35	59.74
05 12 23 00-0254	LF		W36 x 160 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	233.30 21.00 46.66 1.62 -71.02 28.00	66.48
05 12 23 00-0255	LF		W36 x 150 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	224.31 20.19 44.86 1.54 -67.95 26.92	66.00
05 12 23 00-0256	LF		W36 x 135 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	211.74 19.06 42.35 1.42 -63.65 25.41	65.42
05 12 23 00-0257	LF		W33 x 241 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	304.09 27.37 60.82 2.35 -96.07 36.49	64.73
05 12 23 00-0258	LF		W33 x 221 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	282.89 25.46 56.58 2.16 -88.91 33.95	63.15
05 12 23 00-0259	LF		W33 x 201 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	268.83 24.19 53.77 1.96 -83.17 32.26	68.21
05 12 23 00-0260	LF		W33 x 170 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	242.95 21.87 48.59 1.72 -74.33 29.15	66.96
05 12 23 00-0261	LF		W33 x 152 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	222.12 19.99 44.42 1.59 -68.22 26.65	59.55
05 12 23 00-0262	LF		W33 x 141 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	217.15 19.54 43.43 1.47 -65.50 26.06	65.61

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0263	LF		W33 x 130 A992/A36 Structural Beam Or Girder.....	206.97	65.14
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.63	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	41.39	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.38	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-62.02	
			<i>For Skewed Or Sloped Connections, Add</i>	24.84	
05 12 23 00-0264	LF		W33 x 118 A992/A36 Structural Beam Or Girder.....	195.15	64.57
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.56	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	39.03	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.26	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-57.97	
			<i>For Skewed Or Sloped Connections, Add</i>	23.42	
05 12 23 00-0265	LF		W30 x 211 A992/A36 Structural Beam Or Girder.....	271.97	63.03
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	24.48	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	54.39	
			<i>For Each Additional Top Copes &gt;2, Add</i>	2.05	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-85.11	
			<i>For Skewed Or Sloped Connections, Add</i>	32.64	
05 12 23 00-0266	LF		W30 x 191 A992/A36 Structural Beam Or Girder.....	257.65	67.72
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.19	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	51.53	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.85	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-79.33	
			<i>For Skewed Or Sloped Connections, Add</i>	30.92	
05 12 23 00-0267	LF		W30 x 173 A992/A36 Structural Beam Or Girder.....	237.16	60.16
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.34	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	47.43	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.73	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-73.38	
			<i>For Skewed Or Sloped Connections, Add</i>	28.46	
05 12 23 00-0268	LF		W30 x 154 A992/A36 Structural Beam Or Girder.....	224.51	66.10
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.21	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	44.90	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.54	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-68.00	
			<i>For Skewed Or Sloped Connections, Add</i>	26.94	
05 12 23 00-0269	LF		W30 x 132 A992/A36 Structural Beam Or Girder.....	201.50	58.04
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.14	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	40.30	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.40	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-61.24	
			<i>For Skewed Or Sloped Connections, Add</i>	24.18	
05 12 23 00-0270	LF		W30 x 124 A992/A36 Structural Beam Or Girder.....	193.01	58.01
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.37	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	38.60	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.31	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-58.27	
			<i>For Skewed Or Sloped Connections, Add</i>	23.16	
05 12 23 00-0271	LF		W30 x 116 A992/A36 Structural Beam Or Girder.....	191.46	64.46
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	17.23	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	38.29	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.23	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-56.69	
			<i>For Skewed Or Sloped Connections, Add</i>	22.98	
05 12 23 00-0272	LF		W30 x 108 A992/A36 Structural Beam Or Girder.....	176.70	58.05
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.90	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	35.34	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.15	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-52.56	
			<i>For Skewed Or Sloped Connections, Add</i>	21.20	
05 12 23 00-0273	LF		W30 x 99 A992/A36 Structural Beam Or Girder.....	169.44	57.76
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.25	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	33.89	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.08	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-50.08	
			<i>For Skewed Or Sloped Connections, Add</i>	20.33	
05 12 23 00-0274	LF		W27 x 178 A992/A36 Structural Beam Or Girder.....	264.65	70.43
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	23.82	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	52.93	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.90	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-81.36	
			<i>For Skewed Or Sloped Connections, Add</i>	31.76	
05 12 23 00-0275	LF		W27 x 161 A992/A36 Structural Beam Or Girder.....	243.71	67.77
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	21.93	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	48.74	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.71	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-74.46	
			<i>For Skewed Or Sloped Connections, Add</i>	29.25	
05 12 23 00-0276	LF		W27 x 146 A992/A36 Structural Beam Or Girder.....	225.18	65.37
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	20.27	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	45.04	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.55	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-68.35	
			<i>For Skewed Or Sloped Connections, Add</i>	27.02	



<b>Metals</b>	<b>05</b>
<b>Structural Metal Framing</b>	<b>05 10</b>
<b>Structural Steel Framing</b>	<b>05 12</b>

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0277 LF W27 x 114 A992/A36 Structural Beam Or Girder .....	179.31	54.30
For High Strength Low Alloy A572-50 Steel, Add	16.14	
For High Strength Low Alloy A588 Steel, Add	35.86	
For Each Additional Top Copes >2, Add	1.21	
For Structural Tees, WT, MT Or ST, Deduct	-54.07	
For Skewed Or Sloped Connections, Add	21.52	
05 12 23 00-0278 LF W27 x 102 A992/A36 Structural Beam Or Girder .....	170.20	57.76
For High Strength Low Alloy A572-50 Steel, Add	15.32	
For High Strength Low Alloy A588 Steel, Add	34.04	
For Each Additional Top Copes >2, Add	1.09	
For Structural Tees, WT, MT Or ST, Deduct	-50.33	
For Skewed Or Sloped Connections, Add	20.42	
05 12 23 00-0279 LF W27 x 94 A992/A36 Structural Beam Or Girder .....	163.37	57.38
For High Strength Low Alloy A572-50 Steel, Add	14.70	
For High Strength Low Alloy A588 Steel, Add	32.67	
For Each Additional Top Copes >2, Add	1.02	
For Structural Tees, WT, MT Or ST, Deduct	-48.00	
For Skewed Or Sloped Connections, Add	19.60	
05 12 23 00-0280 LF W27 x 84 A992/A36 Structural Beam Or Girder .....	155.03	57.00
For High Strength Low Alloy A572-50 Steel, Add	13.95	
For High Strength Low Alloy A588 Steel, Add	31.01	
For Each Additional Top Copes >2, Add	0.94	
For Structural Tees, WT, MT Or ST, Deduct	-45.15	
For Skewed Or Sloped Connections, Add	18.60	
05 12 23 00-0281 LF W24 x 162 A992/A36 Structural Beam Or Girder .....	234.65	64.97
For High Strength Low Alloy A572-50 Steel, Add	21.12	
For High Strength Low Alloy A588 Steel, Add	46.93	
For Each Additional Top Copes >2, Add	1.65	
For Structural Tees, WT, MT Or ST, Deduct	-71.73	
For Skewed Or Sloped Connections, Add	28.16	
05 12 23 00-0282 LF W24 x 146 A992/A36 Structural Beam Or Girder .....	215.46	62.29
For High Strength Low Alloy A572-50 Steel, Add	19.39	
For High Strength Low Alloy A588 Steel, Add	43.09	
For Each Additional Top Copes >2, Add	1.49	
For Structural Tees, WT, MT Or ST, Deduct	-65.44	
For Skewed Or Sloped Connections, Add	25.86	
05 12 23 00-0283 LF W24 x 131 A992/A36 Structural Beam Or Girder .....	197.12	59.47
For High Strength Low Alloy A572-50 Steel, Add	17.74	
For High Strength Low Alloy A588 Steel, Add	39.42	
For Each Additional Top Copes >2, Add	1.34	
For Structural Tees, WT, MT Or ST, Deduct	-59.48	
For Skewed Or Sloped Connections, Add	23.65	
05 12 23 00-0284 LF W24 x 117 A992/A36 Structural Beam Or Girder .....	179.67	56.50
For High Strength Low Alloy A572-50 Steel, Add	16.17	
For High Strength Low Alloy A588 Steel, Add	35.93	
For Each Additional Top Copes >2, Add	1.19	
For Structural Tees, WT, MT Or ST, Deduct	-53.85	
For Skewed Or Sloped Connections, Add	21.56	
05 12 23 00-0285 LF W24 x 104 A992/A36 Structural Beam Or Girder .....	163.13	53.43
For High Strength Low Alloy A572-50 Steel, Add	14.68	
For High Strength Low Alloy A588 Steel, Add	32.63	
For Each Additional Top Copes >2, Add	1.06	
For Structural Tees, WT, MT Or ST, Deduct	-48.55	
For Skewed Or Sloped Connections, Add	19.58	
05 12 23 00-0286 LF W24 x 94 A992/A36 Structural Beam Or Girder .....	157.15	57.38
For High Strength Low Alloy A572-50 Steel, Add	14.14	
For High Strength Low Alloy A588 Steel, Add	31.43	
For Each Additional Top Copes >2, Add	0.96	
For Structural Tees, WT, MT Or ST, Deduct	-45.82	
For Skewed Or Sloped Connections, Add	18.86	
05 12 23 00-0287 LF W24 x 84 A992/A36 Structural Beam Or Girder .....	142.95	50.86
For High Strength Low Alloy A572-50 Steel, Add	12.87	
For High Strength Low Alloy A588 Steel, Add	28.59	
For Each Additional Top Copes >2, Add	0.89	
For Structural Tees, WT, MT Or ST, Deduct	-41.88	
For Skewed Or Sloped Connections, Add	17.15	
05 12 23 00-0288 LF W24 x 76 A992/A36 Structural Beam Or Girder .....	136.55	50.48
For High Strength Low Alloy A572-50 Steel, Add	12.29	
For High Strength Low Alloy A588 Steel, Add	27.31	
For Each Additional Top Copes >2, Add	0.83	
For Structural Tees, WT, MT Or ST, Deduct	-39.70	
For Skewed Or Sloped Connections, Add	16.39	
05 12 23 00-0289 LF W24 x 68 A992/A36 Structural Beam Or Girder .....	128.53	50.20
For High Strength Low Alloy A572-50 Steel, Add	11.57	
For High Strength Low Alloy A588 Steel, Add	25.71	
For Each Additional Top Copes >2, Add	0.75	
For Structural Tees, WT, MT Or ST, Deduct	-36.95	
For Skewed Or Sloped Connections, Add	15.42	
05 12 23 00-0290 LF W24 x 62 A992/A36 Structural Beam Or Girder .....	124.32	49.90
For High Strength Low Alloy A572-50 Steel, Add	11.19	
For High Strength Low Alloy A588 Steel, Add	24.86	
For Each Additional Top Copes >2, Add	0.71	
For Structural Tees, WT, MT Or ST, Deduct	-35.52	
For Skewed Or Sloped Connections, Add	14.92	

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0291	LF		W24 x 55 A992/A36 Structural Beam Or Girder .....	118.57	49.71
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.67	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	23.71	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.66	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-33.55	
			<i>For Skewed Or Sloped Connections, Add</i>	14.23	
05 12 23 00-0292	LF		W21 x 147 A992/A36 Structural Beam Or Girder.....	204.33	53.44
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	18.39	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	40.87	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.47	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-62.97	
			<i>For Skewed Or Sloped Connections, Add</i>	24.52	
05 12 23 00-0293	LF		W21 x 132 A992/A36 Structural Beam Or Girder.....	186.75	51.05
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	16.81	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	37.35	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.32	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-57.20	
			<i>For Skewed Or Sloped Connections, Add</i>	22.41	
05 12 23 00-0294	LF		W21 x 122 A992/A36 Structural Beam Or Girder.....	175.82	50.20
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.82	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	35.16	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.22	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-53.51	
			<i>For Skewed Or Sloped Connections, Add</i>	21.10	
05 12 23 00-0295	LF		W21 x 111 A992/A36 Structural Beam Or Girder.....	163.07	48.58
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.68	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	32.61	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.11	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-49.30	
			<i>For Skewed Or Sloped Connections, Add</i>	19.57	
05 12 23 00-0296	LF		W21 x 101 A992/A36 Structural Beam Or Girder.....	151.39	47.03
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.63	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	30.28	
			<i>For Each Additional Top Copes &gt;2, Add</i>	1.01	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-45.46	
			<i>For Skewed Or Sloped Connections, Add</i>	18.17	
05 12 23 00-0297	LF		W21 x 93 A992/A36 Structural Beam Or Girder .....	148.10	51.44
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.33	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	29.62	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.93	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-43.60	
			<i>For Skewed Or Sloped Connections, Add</i>	17.77	
05 12 23 00-0298	LF		W21 x 83 A992/A36 Structural Beam Or Girder .....	140.55	50.86
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.65	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	28.11	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.86	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-41.04	
			<i>For Skewed Or Sloped Connections, Add</i>	16.87	
05 12 23 00-0299	LF		W21 x 73 A992/A36 Structural Beam Or Girder .....	131.33	50.48
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.82	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	26.27	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.77	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-37.89	
			<i>For Skewed Or Sloped Connections, Add</i>	15.76	
05 12 23 00-0300	LF		W21 x 68 A992/A36 Structural Beam Or Girder .....	126.68	50.20
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.40	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	25.34	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.73	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-36.31	
			<i>For Skewed Or Sloped Connections, Add</i>	15.20	
05 12 23 00-0301	LF		W21 x 62 A992/A36 Structural Beam Or Girder .....	122.47	49.90
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.02	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	24.49	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.69	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-34.87	
			<i>For Skewed Or Sloped Connections, Add</i>	14.70	
05 12 23 00-0302	LF		W21 x 57 A992/A36 Structural Beam Or Girder .....	118.67	49.81
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.68	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	23.73	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.66	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-33.57	
			<i>For Skewed Or Sloped Connections, Add</i>	14.24	
05 12 23 00-0303	LF		W21 x 50 A992/A36 Structural Beam Or Girder .....	105.00	43.20
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.45	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	21.00	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.59	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-29.82	
			<i>For Skewed Or Sloped Connections, Add</i>	12.60	
05 12 23 00-0304	LF		W21 x 44 A992/A36 Structural Beam Or Girder .....	100.57	43.01
			<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.05	
			<i>For High Strength Low Alloy A588 Steel, Add</i>	20.11	
			<i>For Each Additional Top Copes &gt;2, Add</i>	0.55	
			<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-28.32	
			<i>For Skewed Or Sloped Connections, Add</i>	12.07	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0305	LF			W18 x 119 A992/A36 Structural Beam Or Girder ..... 171.33		50.02
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	15.42	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	34.27	
				<i>For Each Additional Top Copes &gt;2, Add</i>	1.18	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-51.96	
				<i>For Skewed Or Sloped Connections, Add</i>	20.56	
05 12 23 00-0306	LF			W18 x 106 A992/A36 Structural Beam Or Girder ..... 155.64		47.41
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	14.01	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	31.13	
				<i>For Each Additional Top Copes &gt;2, Add</i>	1.05	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-46.89	
				<i>For Skewed Or Sloped Connections, Add</i>	18.68	
05 12 23 00-0307	LF			W18 x 97 A992/A36 Structural Beam Or Girder ..... 151.15		51.44
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	13.60	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	30.23	
				<i>For Each Additional Top Copes &gt;2, Add</i>	0.96	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-44.65	
				<i>For Skewed Or Sloped Connections, Add</i>	18.14	
05 12 23 00-0308	LF			W18 x 86 A992/A36 Structural Beam Or Girder ..... 142.49		50.96
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.82	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	28.50	
				<i>For Each Additional Top Copes &gt;2, Add</i>	0.88	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-41.71	
				<i>For Skewed Or Sloped Connections, Add</i>	17.10	
05 12 23 00-0309	LF			W18 x 76 A992/A36 Structural Beam Or Girder ..... 134.70		50.48
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.12	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	26.94	
				<i>For Each Additional Top Copes &gt;2, Add</i>	0.81	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-39.06	
				<i>For Skewed Or Sloped Connections, Add</i>	16.16	
05 12 23 00-0310	LF			W18 x 71 A992/A36 Structural Beam Or Girder ..... 129.05		50.39
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.61	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	25.81	
				<i>For Each Additional Top Copes &gt;2, Add</i>	0.75	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-37.11	
				<i>For Skewed Or Sloped Connections, Add</i>	15.49	
05 12 23 00-0311	LF			W18 x 65 A992/A36 Structural Beam Or Girder ..... 123.53		50.20
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	11.12	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	24.71	
				<i>For Each Additional Top Copes &gt;2, Add</i>	0.70	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-35.22	
				<i>For Skewed Or Sloped Connections, Add</i>	14.82	
05 12 23 00-0312	LF			W18 x 60 A992/A36 Structural Beam Or Girder ..... 118.54		49.81
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.67	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	23.71	
				<i>For Each Additional Top Copes &gt;2, Add</i>	0.65	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-33.52	
				<i>For Skewed Or Sloped Connections, Add</i>	14.22	
05 12 23 00-0313	LF			W18 x 55 A992/A36 Structural Beam Or Girder ..... 113.55		49.71
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	10.22	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	22.71	
				<i>For Each Additional Top Copes &gt;2, Add</i>	0.61	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-31.80	
				<i>For Skewed Or Sloped Connections, Add</i>	13.63	
05 12 23 00-0314	LF			W18 x 50 A992/A36 Structural Beam Or Girder ..... 101.94		43.20
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	9.17	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	20.39	
				<i>For Each Additional Top Copes &gt;2, Add</i>	0.56	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-28.75	
				<i>For Skewed Or Sloped Connections, Add</i>	12.23	
05 12 23 00-0315	LF			W18 x 46 A992/A36 Structural Beam Or Girder ..... 98.04		43.10
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	8.82	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	19.61	
				<i>For Each Additional Top Copes &gt;2, Add</i>	0.52	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-27.42	
				<i>For Skewed Or Sloped Connections, Add</i>	11.76	
05 12 23 00-0316	LF			W18 x 40 A992/A36 Structural Beam Or Girder ..... 85.56		36.79
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.70	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	17.11	
				<i>For Each Additional Top Copes &gt;2, Add</i>	0.46	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-24.05	
				<i>For Skewed Or Sloped Connections, Add</i>	10.27	
05 12 23 00-0317	LF			W18 x 35 A992/A36 Structural Beam Or Girder ..... 80.67		36.69
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	7.26	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	16.13	
				<i>For Each Additional Top Copes &gt;2, Add</i>	0.42	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-22.37	
				<i>For Skewed Or Sloped Connections, Add</i>	9.68	
05 12 23 00-0318	LF			W16 x 100 A992/A36 Structural Beam Or Girder ..... 139.00		33.43
				<i>For High Strength Low Alloy A572-50 Steel, Add</i>	12.51	
				<i>For High Strength Low Alloy A588 Steel, Add</i>	27.80	
				<i>For Each Additional Top Copes &gt;2, Add</i>	1.03	
				<i>For Structural Tees, WT, MT Or ST, Deduct</i>	-43.30	
				<i>For Skewed Or Sloped Connections, Add</i>	16.68	

05	05	Metals
	05 10	Structural Metal Framing
	05 12	Structural Steel Framing



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0319 LF W16 x 89 A992/A36 Structural Beam Or Girder	127.94	32.85
For High Strength Low Alloy A572-50 Steel, Add	11.51	
For High Strength Low Alloy A588 Steel, Add	25.59	
For Each Additional Top Copes >2, Add	0.93	
For Structural Tees, WT, MT Or ST, Deduct	-39.52	
For Skewed Or Sloped Connections, Add	15.35	
05 12 23 00-0320 LF W16 x 77 A992/A36 Structural Beam Or Girder	116.11	32.47
For High Strength Low Alloy A572-50 Steel, Add	10.45	
For High Strength Low Alloy A588 Steel, Add	23.22	
For Each Additional Top Copes >2, Add	0.82	
For Structural Tees, WT, MT Or ST, Deduct	-35.45	
For Skewed Or Sloped Connections, Add	13.93	
05 12 23 00-0321 LF W16 x 67 A992/A36 Structural Beam Or Girder	106.03	32.00
For High Strength Low Alloy A572-50 Steel, Add	9.54	
For High Strength Low Alloy A588 Steel, Add	21.21	
For Each Additional Top Copes >2, Add	0.72	
For Structural Tees, WT, MT Or ST, Deduct	-32.00	
For Skewed Or Sloped Connections, Add	12.72	
05 12 23 00-0322 LF W16 x 57 A992/A36 Structural Beam Or Girder	96.05	31.52
For High Strength Low Alloy A572-50 Steel, Add	8.64	
For High Strength Low Alloy A588 Steel, Add	19.21	
For Each Additional Top Copes >2, Add	0.62	
For Structural Tees, WT, MT Or ST, Deduct	-28.57	
For Skewed Or Sloped Connections, Add	11.53	
05 12 23 00-0323 LF W16 x 50 A992/A36 Structural Beam Or Girder	89.11	31.23
For High Strength Low Alloy A572-50 Steel, Add	8.02	
For High Strength Low Alloy A588 Steel, Add	17.82	
For Each Additional Top Copes >2, Add	0.56	
For Structural Tees, WT, MT Or ST, Deduct	-26.19	
For Skewed Or Sloped Connections, Add	10.69	
05 12 23 00-0324 LF W16 x 45 A992/A36 Structural Beam Or Girder	84.22	31.04
For High Strength Low Alloy A572-50 Steel, Add	7.58	
For High Strength Low Alloy A588 Steel, Add	16.84	
For Each Additional Top Copes >2, Add	0.51	
For Structural Tees, WT, MT Or ST, Deduct	-24.51	
For Skewed Or Sloped Connections, Add	10.11	
05 12 23 00-0325 LF W16 x 40 A992/A36 Structural Beam Or Girder	79.13	30.75
For High Strength Low Alloy A572-50 Steel, Add	7.12	
For High Strength Low Alloy A588 Steel, Add	15.83	
For Each Additional Top Copes >2, Add	0.46	
For Structural Tees, WT, MT Or ST, Deduct	-22.77	
For Skewed Or Sloped Connections, Add	9.50	
05 12 23 00-0326 LF W16 x 36 A992/A36 Structural Beam Or Girder	75.14	30.56
For High Strength Low Alloy A572-50 Steel, Add	6.76	
For High Strength Low Alloy A588 Steel, Add	15.03	
For Each Additional Top Copes >2, Add	0.43	
For Structural Tees, WT, MT Or ST, Deduct	-21.41	
For Skewed Or Sloped Connections, Add	9.02	
05 12 23 00-0327 LF W16 x 31 A992/A36 Structural Beam Or Girder	63.72	24.33
For High Strength Low Alloy A572-50 Steel, Add	5.73	
For High Strength Low Alloy A588 Steel, Add	12.74	
For Each Additional Top Copes >2, Add	0.38	
For Structural Tees, WT, MT Or ST, Deduct	-18.41	
For Skewed Or Sloped Connections, Add	7.65	
05 12 23 00-0328 LF W16 x 26 A992/A36 Structural Beam Or Girder	57.33	24.04
For High Strength Low Alloy A572-50 Steel, Add	5.16	
For High Strength Low Alloy A588 Steel, Add	11.47	
For Each Additional Top Copes >2, Add	0.32	
For Structural Tees, WT, MT Or ST, Deduct	-16.22	
For Skewed Or Sloped Connections, Add	6.88	
05 12 23 00-0329 LF W14 x 99 A992/A36 Structural Beam Or Girder	131.60	27.39
For High Strength Low Alloy A572-50 Steel, Add	11.84	
For High Strength Low Alloy A588 Steel, Add	26.32	
For Each Additional Top Copes >2, Add	1.02	
For Structural Tees, WT, MT Or ST, Deduct	-41.68	
For Skewed Or Sloped Connections, Add	15.79	
05 12 23 00-0330 LF W14 x 90 A992/A36 Structural Beam Or Girder	122.60	26.92
For High Strength Low Alloy A572-50 Steel, Add	11.03	
For High Strength Low Alloy A588 Steel, Add	24.52	
For Each Additional Top Copes >2, Add	0.94	
For Structural Tees, WT, MT Or ST, Deduct	-38.60	
For Skewed Or Sloped Connections, Add	14.71	
05 12 23 00-0331 LF W14 x 82 A992/A36 Structural Beam Or Girder	114.58	26.63
For High Strength Low Alloy A572-50 Steel, Add	10.31	
For High Strength Low Alloy A588 Steel, Add	22.92	
For Each Additional Top Copes >2, Add	0.86	
For Structural Tees, WT, MT Or ST, Deduct	-35.85	
For Skewed Or Sloped Connections, Add	13.75	
05 12 23 00-0332 LF W14 x 74 A992/A36 Structural Beam Or Girder	106.56	26.24
For High Strength Low Alloy A572-50 Steel, Add	9.59	
For High Strength Low Alloy A588 Steel, Add	21.31	
For Each Additional Top Copes >2, Add	0.79	
For Structural Tees, WT, MT Or ST, Deduct	-33.10	
For Skewed Or Sloped Connections, Add	12.79	



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
05 12 23 00-0333	LF	W14 x 68 A992/A36 Structural Beam Or Girder .....		100.60	25.96
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		9.05	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		20.12	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.73	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-31.06	
		<i>For Skewed Or Sloped Connections, Add</i>		12.07	
05 12 23 00-0334	LF	W14 x 61 A992/A36 Structural Beam Or Girder .....		93.64	25.67
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		8.43	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		18.73	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.66	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-28.67	
		<i>For Skewed Or Sloped Connections, Add</i>		11.24	
05 12 23 00-0335	LF	W14 x 53 A992/A36 Structural Beam Or Girder .....		85.73	25.29
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		7.72	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		17.15	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.59	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-25.95	
		<i>For Skewed Or Sloped Connections, Add</i>		10.29	
05 12 23 00-0336	LF	W14 x 48 A992/A36 Structural Beam Or Girder .....		80.65	25.00
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		7.26	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		16.13	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.54	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-24.22	
		<i>For Skewed Or Sloped Connections, Add</i>		9.68	
05 12 23 00-0337	LF	W14 x 43 A992/A36 Structural Beam Or Girder .....		75.66	24.90
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		6.81	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		15.13	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.49	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-22.50	
		<i>For Skewed Or Sloped Connections, Add</i>		9.08	
05 12 23 00-0338	LF	W14 x 38 A992/A36 Structural Beam Or Girder .....		70.66	24.71
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		6.36	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		14.13	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.44	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-20.80	
		<i>For Skewed Or Sloped Connections, Add</i>		8.48	
05 12 23 00-0339	LF	W14 x 34 A992/A36 Structural Beam Or Girder .....		66.65	24.43
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		6.00	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		13.33	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.41	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-19.42	
		<i>For Skewed Or Sloped Connections, Add</i>		8.00	
05 12 23 00-0340	LF	W14 x 30 A992/A36 Structural Beam Or Girder .....		62.64	24.33
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		5.64	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		12.53	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.37	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-18.05	
		<i>For Skewed Or Sloped Connections, Add</i>		7.52	
05 12 23 00-0341	LF	W14 x 26 A992/A36 Structural Beam Or Girder .....		58.63	24.04
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		5.28	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		11.73	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.33	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-16.67	
		<i>For Skewed Or Sloped Connections, Add</i>		7.04	
05 12 23 00-0342	LF	W14 x 22 A992/A36 Structural Beam Or Girder .....		54.73	23.95
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		4.93	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		10.95	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.29	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-15.33	
		<i>For Skewed Or Sloped Connections, Add</i>		6.57	
05 12 23 00-0343	LF	W12 x 87 A992/A36 Structural Beam Or Girder .....		119.68	26.82
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		10.77	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		23.94	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.91	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-37.59	
		<i>For Skewed Or Sloped Connections, Add</i>		14.36	
05 12 23 00-0344	LF	W12 x 79 A992/A36 Structural Beam Or Girder .....		111.65	26.44
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		10.05	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		22.33	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.83	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-34.84	
		<i>For Skewed Or Sloped Connections, Add</i>		13.40	
05 12 23 00-0345	LF	W12 x 72 A992/A36 Structural Beam Or Girder .....		104.61	26.15
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		9.41	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		20.92	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.77	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-32.43	
		<i>For Skewed Or Sloped Connections, Add</i>		12.55	
05 12 23 00-0346	LF	W12 x 65 A992/A36 Structural Beam Or Girder .....		97.66	25.86
		<i>For High Strength Low Alloy A572-50 Steel, Add</i>		8.79	
		<i>For High Strength Low Alloy A588 Steel, Add</i>		19.53	
		<i>For Each Additional Top Copes &gt;2, Add</i>		0.70	
		<i>For Structural Tees, WT, MT Or ST, Deduct</i>		-30.04	
		<i>For Skewed Or Sloped Connections, Add</i>		11.72	

**05 Metals**  
**05 10 Structural Metal Framing**  
**05 12 Structural Steel Framing**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0347	LF		W12 x 58 A992/A36 Structural Beam Or Girder	90.61	25.48
			For High Strength Low Alloy A572-50 Steel, Add	8.15	
			For High Strength Low Alloy A588 Steel, Add	18.12	
			For Each Additional Top Copes >2, Add	0.63	
			For Structural Tees, WT, MT Or ST, Deduct	-27.63	
			For Skewed Or Sloped Connections, Add	10.87	
05 12 23 00-0348	LF		W12 x 53 A992/A36 Structural Beam Or Girder	85.73	25.29
			For High Strength Low Alloy A572-50 Steel, Add	7.72	
			For High Strength Low Alloy A588 Steel, Add	17.15	
			For Each Additional Top Copes >2, Add	0.59	
			For Structural Tees, WT, MT Or ST, Deduct	-25.95	
			For Skewed Or Sloped Connections, Add	10.29	
05 12 23 00-0349	LF		W12 x 50 A992/A36 Structural Beam Or Girder	82.59	25.19
			For High Strength Low Alloy A572-50 Steel, Add	7.43	
			For High Strength Low Alloy A588 Steel, Add	16.52	
			For Each Additional Top Copes >2, Add	0.56	
			For Structural Tees, WT, MT Or ST, Deduct	-24.88	
			For Skewed Or Sloped Connections, Add	9.91	
05 12 23 00-0350	LF		W12 x 45 A992/A36 Structural Beam Or Girder	77.71	25.00
			For High Strength Low Alloy A572-50 Steel, Add	6.99	
			For High Strength Low Alloy A588 Steel, Add	15.54	
			For Each Additional Top Copes >2, Add	0.51	
			For Structural Tees, WT, MT Or ST, Deduct	-23.20	
			For Skewed Or Sloped Connections, Add	9.33	
05 12 23 00-0351	LF		W12 x 40 A992/A36 Structural Beam Or Girder	66.11	18.59
			For High Strength Low Alloy A572-50 Steel, Add	5.95	
			For High Strength Low Alloy A588 Steel, Add	13.22	
			For Each Additional Top Copes >2, Add	0.46	
			For Structural Tees, WT, MT Or ST, Deduct	-20.16	
			For Skewed Or Sloped Connections, Add	7.93	
05 12 23 00-0352	LF		W12 x 35 A992/A36 Structural Beam Or Girder	61.21	18.48
			For High Strength Low Alloy A572-50 Steel, Add	5.51	
			For High Strength Low Alloy A588 Steel, Add	12.24	
			For Each Additional Top Copes >2, Add	0.42	
			For Structural Tees, WT, MT Or ST, Deduct	-18.48	
			For Skewed Or Sloped Connections, Add	7.35	
05 12 23 00-0353	LF		W12 x 30 A992/A36 Structural Beam Or Girder	56.13	18.20
			For High Strength Low Alloy A572-50 Steel, Add	5.05	
			For High Strength Low Alloy A588 Steel, Add	11.23	
			For Each Additional Top Copes >2, Add	0.37	
			For Structural Tees, WT, MT Or ST, Deduct	-16.74	
			For Skewed Or Sloped Connections, Add	6.74	
05 12 23 00-0354	LF		W12 x 26 A992/A36 Structural Beam Or Girder	52.12	18.01
			For High Strength Low Alloy A572-50 Steel, Add	4.69	
			For High Strength Low Alloy A588 Steel, Add	10.42	
			For Each Additional Top Copes >2, Add	0.33	
			For Structural Tees, WT, MT Or ST, Deduct	-15.37	
			For Skewed Or Sloped Connections, Add	6.25	
05 12 23 00-0355	LF		W12 x 22 A992/A36 Structural Beam Or Girder	48.22	17.82
			For High Strength Low Alloy A572-50 Steel, Add	4.34	
			For High Strength Low Alloy A588 Steel, Add	9.64	
			For Each Additional Top Copes >2, Add	0.29	
			For Structural Tees, WT, MT Or ST, Deduct	-14.03	
			For Skewed Or Sloped Connections, Add	5.79	
05 12 23 00-0356	LF		W12 x 19 A992/A36 Structural Beam Or Girder	45.17	17.72
			For High Strength Low Alloy A572-50 Steel, Add	4.07	
			For High Strength Low Alloy A588 Steel, Add	9.03	
			For Each Additional Top Copes >2, Add	0.26	
			For Structural Tees, WT, MT Or ST, Deduct	-12.98	
			For Skewed Or Sloped Connections, Add	5.42	
05 12 23 00-0357	LF		W12 x 16 A992/A36 Structural Beam Or Girder	42.15	17.44
			For High Strength Low Alloy A572-50 Steel, Add	3.79	
			For High Strength Low Alloy A588 Steel, Add	8.43	
			For Each Additional Top Copes >2, Add	0.23	
			For Structural Tees, WT, MT Or ST, Deduct	-11.95	
			For Skewed Or Sloped Connections, Add	5.06	
05 12 23 00-0358	LF		W12 x 14 A992/A36 Structural Beam Or Girder	40.20	17.44
			For High Strength Low Alloy A572-50 Steel, Add	3.62	
			For High Strength Low Alloy A588 Steel, Add	8.04	
			For Each Additional Top Copes >2, Add	0.22	
			For Structural Tees, WT, MT Or ST, Deduct	-11.28	
			For Skewed Or Sloped Connections, Add	4.82	
05 12 23 00-0359	LF		W10 x 68 A992/A36 Structural Beam Or Girder	94.40	20.02
			For High Strength Low Alloy A572-50 Steel, Add	8.50	
			For High Strength Low Alloy A588 Steel, Add	18.88	
			For Each Additional Top Copes >2, Add	0.73	
			For Structural Tees, WT, MT Or ST, Deduct	-29.85	
			For Skewed Or Sloped Connections, Add	11.33	
05 12 23 00-0360	LF		W10 x 60 A992/A36 Structural Beam Or Girder	86.49	19.64
			For High Strength Low Alloy A572-50 Steel, Add	7.78	
			For High Strength Low Alloy A588 Steel, Add	17.30	
			For Each Additional Top Copes >2, Add	0.66	
			For Structural Tees, WT, MT Or ST, Deduct	-27.14	
			For Skewed Or Sloped Connections, Add	10.38	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0361 LF W10 x 54 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	80.40 7.24 16.08 0.60 -25.05 9.65	19.25
05 12 23 00-0362 LF W10 x 49 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	75.43 6.79 15.09 0.55 -23.35 9.05	19.06
05 12 23 00-0363 LF W10 x 45 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	71.42 6.43 14.28 0.51 -21.98 8.57	18.97
05 12 23 00-0364 LF W10 x 39 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	65.45 5.89 13.09 0.46 -19.93 7.85	18.59
05 12 23 00-0365 LF W10 x 33 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	59.49 5.35 11.90 0.40 -17.89 7.14	18.29
05 12 23 00-0366 LF W10 x 30 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	56.44 5.08 11.29 0.37 -16.84 6.77	18.20
05 12 23 00-0367 LF W10 x 26 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	52.54 4.73 10.51 0.33 -15.50 6.30	18.10
05 12 23 00-0368 LF W10 x 22 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	48.44 4.36 9.69 0.29 -14.11 5.81	17.82
05 12 23 00-0369 LF W10 x 19 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	45.50 4.10 9.10 0.27 -13.09 5.46	17.72
05 12 23 00-0370 LF W10 x 17 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	43.45 3.91 8.69 0.25 -12.39 5.21	17.63
05 12 23 00-0371 LF W10 x 15 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	41.49 3.73 8.30 0.23 -11.72 4.98	17.44
05 12 23 00-0372 LF W10 x 12 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	38.56 3.47 7.71 0.20 -10.71 4.63	17.44
05 12 23 00-0373 LF W8 x 35 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	61.44 5.53 12.29 0.42 -18.56 7.37	18.48
05 12 23 00-0374 LF W8 x 31 A992/A36 Structural Beam Or Girder ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Steel, Add</i> <i>For Each Additional Top Copes &gt;2, Add</i> <i>For Structural Tees, WT, MT Or ST, Deduct</i> <i>For Skewed Or Sloped Connections, Add</i>	57.42 5.17 11.48 0.38 -17.18 6.89	18.20

05	<b>05 Metals</b>
	<b>05 10 Structural Metal Framing</b>
	05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0375	LF		W8 x 28 A992/A36 Structural Beam Or Girder	53.43	17.14
			For High Strength Low Alloy A572-50 Steel, Add	4.81	
			For High Strength Low Alloy A588 Steel, Add	10.69	
			For Each Additional Top Copes >2, Add	0.35	
			For Structural Tees, WT, MT Or ST, Deduct	-15.96	
			For Skewed Or Sloped Connections, Add	6.41	
05 12 23 00-0376	LF		W8 x 24 A992/A36 Structural Beam Or Girder	48.80	16.09
			For High Strength Low Alloy A572-50 Steel, Add	4.39	
			For High Strength Low Alloy A588 Steel, Add	9.76	
			For Each Additional Top Copes >2, Add	0.32	
			For Structural Tees, WT, MT Or ST, Deduct	-14.51	
			For Skewed Or Sloped Connections, Add	5.86	
05 12 23 00-0377	LF		W8 x 21 A992/A36 Structural Beam Or Girder	45.43	14.94
			For High Strength Low Alloy A572-50 Steel, Add	4.09	
			For High Strength Low Alloy A588 Steel, Add	9.09	
			For Each Additional Top Copes >2, Add	0.29	
			For Structural Tees, WT, MT Or ST, Deduct	-13.50	
			For Skewed Or Sloped Connections, Add	5.45	
05 12 23 00-0378	LF		W8 x 18 A992/A36 Structural Beam Or Girder	39.91	13.89
			For High Strength Low Alloy A572-50 Steel, Add	3.59	
			For High Strength Low Alloy A588 Steel, Add	7.98	
			For Each Additional Top Copes >2, Add	0.25	
			For Structural Tees, WT, MT Or ST, Deduct	-11.74	
			For Skewed Or Sloped Connections, Add	4.79	
05 12 23 00-0379	LF		W8 x 10 A992/A36 Structural Beam Or Girder	23.91	9.96
			For High Strength Low Alloy A572-50 Steel, Add	2.15	
			For High Strength Low Alloy A588 Steel, Add	4.78	
			For Each Additional Top Copes >2, Add	0.13	
			For Structural Tees, WT, MT Or ST, Deduct	-6.79	
			For Skewed Or Sloped Connections, Add	2.87	
05 12 23 00-0380	LF		W6 x 9 A992/A36 Structural Beam Or Girder	21.83	8.14
			For High Strength Low Alloy A572-50 Steel, Add	1.96	
			For High Strength Low Alloy A588 Steel, Add	4.37	
			For Each Additional Top Copes >2, Add	0.13	
			For Structural Tees, WT, MT Or ST, Deduct	-6.35	
			For Skewed Or Sloped Connections, Add	2.62	
05 12 23 00-0381	<b>A992/A36 Structural Steel, M Shapes</b> (05 12 23 00-0163)				
	Note: Includes material delivery and erection.				
05 12 23 00-0382	LF		M14 x 18 A992/A36 Structural Steel	44.44	13.18
			For High Strength Low Alloy A572-50 Steel, Add	4.00	
			For High Strength Low Alloy A588 Grade B Steel, Add	8.89	
05 12 23 00-0383	LF		M12 x 11.8 A992/A36 Structural Steel	32.34	11.66
			For High Strength Low Alloy A572-50 Steel, Add	2.91	
			For High Strength Low Alloy A588 Grade B Steel, Add	6.47	
05 12 23 00-0384	LF		M10 x 9 A992/A36 Structural Steel	25.16	9.35
			For High Strength Low Alloy A572-50 Steel, Add	2.26	
			For High Strength Low Alloy A588 Grade B Steel, Add	5.03	
05 12 23 00-0385	LF		M8 x 6.5 A992/A36 Structural Steel	18.18	6.75
			For High Strength Low Alloy A572-50 Steel, Add	1.64	
			For High Strength Low Alloy A588 Grade B Steel, Add	3.64	
05 12 23 00-0386	LF		M6 x 20 A992/A36 Structural Steel	50.04	15.43
			For High Strength Low Alloy A572-50 Steel, Add	4.50	
			For High Strength Low Alloy A588 Grade B Steel, Add	10.01	
05 12 23 00-0387	LF		M6 x 4.4 A992/A36 Structural Steel	12.29	4.57
			For High Strength Low Alloy A572-50 Steel, Add	1.11	
			For High Strength Low Alloy A588 Grade B Steel, Add	2.46	
05 12 23 00-0388	LF		M5 x 18.9 A992/A36 Structural Steel	48.33	15.43
			For High Strength Low Alloy A572-50 Steel, Add	4.35	
			For High Strength Low Alloy A588 Grade B Steel, Add	9.67	
05 12 23 00-0389	LF		M4 x 13 A992/A36 Structural Steel	40.10	15.13
			For High Strength Low Alloy A572-50 Steel, Add	3.61	
			For High Strength Low Alloy A588 Grade B Steel, Add	8.02	
05 12 23 00-0390	<b>A992/A36 Structural Steel, S Shapes</b> (05 12 23 00-0163)				
	Note: Includes material delivery and erection.				
05 12 23 00-0391	LF		S24 x 121 A992/A36 Structural Steel	264.65	66.75
			For High Strength Low Alloy A572-50 Steel, Add	23.82	
			For High Strength Low Alloy A588 Grade B Steel, Add	52.93	
05 12 23 00-0392	LF		S24 x 106 A992/A36 Structural Steel	235.13	61.55
			For High Strength Low Alloy A572-50 Steel, Add	21.16	
			For High Strength Low Alloy A588 Grade B Steel, Add	47.03	
05 12 23 00-0393	LF		S24 x 100 A992/A36 Structural Steel	225.08	61.13
			For High Strength Low Alloy A572-50 Steel, Add	20.26	
			For High Strength Low Alloy A588 Grade B Steel, Add	45.02	
05 12 23 00-0394	LF		S24 x 90 A992/A36 Structural Steel	205.66	57.91
			For High Strength Low Alloy A572-50 Steel, Add	18.51	
			For High Strength Low Alloy A588 Grade B Steel, Add	41.13	
05 12 23 00-0395	LF		S24 x 80 A992/A36 Structural Steel	185.69	54.19
			For High Strength Low Alloy A572-50 Steel, Add	16.71	
			For High Strength Low Alloy A588 Grade B Steel, Add	37.14	
05 12 23 00-0396	LF		S20 x 96 A992/A36 Structural Steel	216.08	58.68
			For High Strength Low Alloy A572-50 Steel, Add	19.45	
			For High Strength Low Alloy A588 Grade B Steel, Add	43.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0397 LF S20 x 86 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	196.52 17.69 39.30	55.34
05 12 23 00-0398 LF S20 x 75 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	174.08 15.67 34.82	50.80
05 12 23 00-0399 LF S20 x 66 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	155.71 14.01 31.14	47.06
05 12 23 00-0400 LF S18 x 70 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	165.15 14.86 33.03	49.90
05 12 23 00-0401 LF S18 x 54.7 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	131.23 11.81 26.25	41.05
05 12 23 00-0402 LF S15 x 50 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	122.06 10.99 24.41	39.50
05 12 23 00-0403 LF S15 x 42.9 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	106.63 9.60 21.33	35.67
05 12 23 00-0404 LF S12 x 50 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	119.95 10.80 23.99	37.52
05 12 23 00-0405 LF S12 x 40.8 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	99.60 8.96 19.92	32.24
05 12 23 00-0406 LF S12 x 35 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	86.99 7.83 17.40	29.11
05 12 23 00-0407 LF S12 x 31.8 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	80.53 7.25 16.11	27.83
05 12 23 00-0408 LF S10 x 35 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	88.63 7.98 17.73	30.64
05 12 23 00-0409 LF S10 x 25.4 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	65.57 5.90 13.11	23.40
05 12 23 00-0410 LF S8 x 23 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	59.38 5.34 11.88	21.19
05 12 23 00-0411 LF S8 x 18.4 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	48.45 4.36 9.69	17.85
05 12 23 00-0412 LF S7 x 20 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	52.66 4.74 10.53	19.40
05 12 23 00-0413 LF S7 x 15.3 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	41.13 3.70 8.23	15.62
05 12 23 00-0414 LF S6 x 17.25 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	44.83 4.03 8.97	16.17
05 12 23 00-0415 LF S6 x 12.5 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	38.62 3.48 7.72	14.94
05 12 23 00-0416 LF S5 x 14.75 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	40.99 3.69 8.20	15.24
05 12 23 00-0417 LF S5 x 10 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	35.15 3.16 7.03	14.85
05 12 23 00-0418 LF S4 x 9.5 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	34.26 3.08 6.85	14.85
05 12 23 00-0419 LF S4 x 7.7 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	32.18 2.90 6.44	14.85
05 12 23 00-0420 LF S3 x 7.5 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	31.98 2.88 6.40	14.85
05 12 23 00-0421 LF S3 x 5.7 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	29.50 2.66 5.90	14.75
<b>05 12 23 00-0422 A992/A36 Structural Steel, HP Shapes</b> (05 12 23 00-0163) Note: Includes material delivery and erection.		
05 12 23 00-0423 LF HP14 x 117 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	158.50 14.27 31.70	19.78
05 12 23 00-0424 LF HP14 x 102 A992/A36 Structural Steel ..... <i>For High Strength Low Alloy A572-50 Steel, Add</i> <i>For High Strength Low Alloy A588 Grade B Steel, Add</i>	138.92 12.50 27.78	18.40

05	<b>05 Metals</b>
	<b>05 10 Structural Metal Framing</b>
	<b>05 12 Structural Steel Framing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0425 LF HP14 x 89 A992/A36 Structural Steel.....	123.96	17.26
For High Strength Low Alloy A572-50 Steel, Add	11.16	
For High Strength Low Alloy A588 Grade B Steel, Add	24.79	
05 12 23 00-0426 LF HP14 x 73 A992/A36 Structural Steel.....	103.05	16.27
For High Strength Low Alloy A572-50 Steel, Add	9.27	
For High Strength Low Alloy A588 Grade B Steel, Add	20.61	
05 12 23 00-0427 LF HP13 x 100 A992/A36 Structural Steel.....	136.20	18.05
For High Strength Low Alloy A572-50 Steel, Add	12.26	
For High Strength Low Alloy A588 Grade B Steel, Add	27.24	
05 12 23 00-0428 LF HP13 x 87 A992/A36 Structural Steel.....	121.18	16.88
For High Strength Low Alloy A572-50 Steel, Add	10.91	
For High Strength Low Alloy A588 Grade B Steel, Add	24.24	
05 12 23 00-0429 LF HP13 x 73 A992/A36 Structural Steel.....	103.05	16.27
For High Strength Low Alloy A572-50 Steel, Add	9.27	
For High Strength Low Alloy A588 Grade B Steel, Add	20.61	
05 12 23 00-0430 LF HP13 x 60 A992/A36 Structural Steel.....	87.69	15.59
For High Strength Low Alloy A572-50 Steel, Add	7.89	
For High Strength Low Alloy A588 Grade B Steel, Add	17.54	
05 12 23 00-0431 LF HP12 x 84 A992/A36 Structural Steel.....	114.71	17.80
For High Strength Low Alloy A572-50 Steel, Add	10.32	
For High Strength Low Alloy A588 Grade B Steel, Add	22.94	
05 12 23 00-0432 LF HP12 x 74 A992/A36 Structural Steel.....	101.57	16.78
For High Strength Low Alloy A572-50 Steel, Add	9.14	
For High Strength Low Alloy A588 Grade B Steel, Add	20.31	
05 12 23 00-0433 LF HP12 x 63 A992/A36 Structural Steel.....	87.65	15.44
For High Strength Low Alloy A572-50 Steel, Add	7.89	
For High Strength Low Alloy A588 Grade B Steel, Add	17.53	
05 12 23 00-0434 LF HP12 x 53 A992/A36 Structural Steel.....	80.47	14.68
For High Strength Low Alloy A572-50 Steel, Add	7.24	
For High Strength Low Alloy A588 Grade B Steel, Add	16.09	
05 12 23 00-0435 LF HP10 x 57 A992/A36 Structural Steel.....	84.69	15.06
For High Strength Low Alloy A572-50 Steel, Add	7.62	
For High Strength Low Alloy A588 Grade B Steel, Add	16.94	
05 12 23 00-0436 LF HP10 x 42 A992/A36 Structural Steel.....	70.16	14.11
For High Strength Low Alloy A572-50 Steel, Add	6.31	
For High Strength Low Alloy A588 Grade B Steel, Add	14.03	
05 12 23 00-0437 LF HP8 x 36 A992/A36 Structural Steel.....	61.22	13.31
For High Strength Low Alloy A572-50 Steel, Add	5.51	
For High Strength Low Alloy A588 Grade B Steel, Add	12.24	
05 12 23 00-0438 Lightweight Framing Steel Shapes (05 12 23)		
05 12 23 00-0439 Angle Iron - L (05 12 23 00-0438)		
05 12 23 00-0440 1/8" Thick (05 12 23 00-0439)		
05 12 23 00-0441 LF 1/2" x 1/2" x 1/8" Angle Iron.....	2.13	1.35
For >100 To 250, Deduct	-0.14	
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.29	
For >1,000, Deduct	-0.38	
For 316 Stainless Steel, Add	1.06	
For Aluminum, Add	0.06	
For Galvanized Steel, Add	0.20	
For 304 Stainless Steel, Add	0.94	
For High Strength Steel (HSS), Add	0.43	
05 12 23 00-0442 LF 3/4" x 1/2" x 1/8" Angle Iron.....	2.45	1.53
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.21	
For >500 To 1,000, Deduct	-0.33	
For >1,000, Deduct	-0.44	
For 316 Stainless Steel, Add	1.31	
For Aluminum, Add	0.07	
For Galvanized Steel, Add	0.25	
For 304 Stainless Steel, Add	1.17	
For High Strength Steel (HSS), Add	0.49	
05 12 23 00-0443 LF 3/4" x 3/4" x 1/8" Angle Iron.....	2.76	1.69
For >100 To 250, Deduct	-0.17	
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.36	
For >1,000, Deduct	-0.49	
For 316 Stainless Steel, Add	1.63	
For Aluminum, Add	0.09	
For Galvanized Steel, Add	0.32	
For 304 Stainless Steel, Add	1.45	
For High Strength Steel (HSS), Add	0.55	
05 12 23 00-0444 LF 1" x 3/4" x 1/8" Angle Iron.....	3.10	1.88
For >100 To 250, Deduct	-0.19	
For >250 To 500, Deduct	-0.27	
For >500 To 1,000, Deduct	-0.41	
For >1,000, Deduct	-0.55	
For 316 Stainless Steel, Add	1.89	
For Aluminum, Add	0.11	
For Galvanized Steel, Add	0.37	
For 304 Stainless Steel, Add	1.68	
For High Strength Steel (HSS), Add	0.62	





	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0445	LF		1" x 1" x 1/8" Angle Iron.....	3.39	2.02
			<i>For &gt;100 To 250, Deduct</i>	-0.20	
			<i>For &gt;250 To 500, Deduct</i>	-0.29	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.44	
			<i>For &gt;1,000, Deduct</i>	-0.59	
			<i>For 316 Stainless Steel, Add</i>	2.21	
			<i>For Aluminum, Add</i>	0.12	
			<i>For Galvanized Steel, Add</i>	0.43	
			<i>For 304 Stainless Steel, Add</i>	1.97	
			<i>For High Strength Steel (HSS), Add</i>	0.68	
05 12 23 00-0446	LF		1-1/4" x 1-1/4" x 1/8" Angle Iron.....	4.05	2.39
			<i>For &gt;100 To 250, Deduct</i>	-0.24	
			<i>For &gt;250 To 500, Deduct</i>	-0.34	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.52	
			<i>For &gt;1,000, Deduct</i>	-0.70	
			<i>For 316 Stainless Steel, Add</i>	2.78	
			<i>For Aluminum, Add</i>	0.16	
			<i>For Galvanized Steel, Add</i>	0.54	
			<i>For 304 Stainless Steel, Add</i>	2.48	
			<i>For High Strength Steel (HSS), Add</i>	0.81	
05 12 23 00-0447	LF		1-1/2" x 1" x 1/8" Angle Iron.....	4.05	2.39
			<i>For &gt;100 To 250, Deduct</i>	-0.24	
			<i>For &gt;250 To 500, Deduct</i>	-0.34	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.52	
			<i>For &gt;1,000, Deduct</i>	-0.70	
			<i>For 316 Stainless Steel, Add</i>	2.78	
			<i>For Aluminum, Add</i>	0.16	
			<i>For Galvanized Steel, Add</i>	0.54	
			<i>For 304 Stainless Steel, Add</i>	2.48	
			<i>For High Strength Steel (HSS), Add</i>	0.81	
05 12 23 00-0448	LF		1-1/2" x 1-1/2" x 1/8" Angle Iron.....	4.85	2.86
			<i>For &gt;100 To 250, Deduct</i>	-0.29	
			<i>For &gt;250 To 500, Deduct</i>	-0.41	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.62	
			<i>For &gt;1,000, Deduct</i>	-0.84	
			<i>For 316 Stainless Steel, Add</i>	3.36	
			<i>For Aluminum, Add</i>	0.19	
			<i>For Galvanized Steel, Add</i>	0.65	
			<i>For 304 Stainless Steel, Add</i>	2.99	
			<i>For High Strength Steel (HSS), Add</i>	0.97	
05 12 23 00-0449	LF		2" x 2" x 1/8" Angle Iron.....	6.60	3.89
			<i>For &gt;100 To 250, Deduct</i>	-0.39	
			<i>For &gt;250 To 500, Deduct</i>	-0.55	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.85	
			<i>For &gt;1,000, Deduct</i>	-1.14	
			<i>For 316 Stainless Steel, Add</i>	4.58	
			<i>For Aluminum, Add</i>	0.26	
			<i>For Galvanized Steel, Add</i>	0.89	
			<i>For 304 Stainless Steel, Add</i>	4.08	
			<i>For High Strength Steel (HSS), Add</i>	1.32	
05 12 23 00-0450			<b>3/16" Thick</b> (05 12 23 00-0439)		
05 12 23 00-0451	LF		1-1/4" x 1-1/4" x 3/16" Angle Iron.....	4.64	2.52
			<i>For &gt;100 To 250, Deduct</i>	-0.25	
			<i>For &gt;250 To 500, Deduct</i>	-0.37	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.57	
			<i>For &gt;1,000, Deduct</i>	-0.77	
			<i>For 316 Stainless Steel, Add</i>	4.10	
			<i>For Aluminum, Add</i>	0.23	
			<i>For Galvanized Steel, Add</i>	0.79	
			<i>For 304 Stainless Steel, Add</i>	3.65	
			<i>For High Strength Steel (HSS), Add</i>	0.93	
05 12 23 00-0452	LF		1-1/2" x 1" x 3/16" Angle Iron.....	4.64	2.52
			<i>For &gt;100 To 250, Deduct</i>	-0.25	
			<i>For &gt;250 To 500, Deduct</i>	-0.37	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.57	
			<i>For &gt;1,000, Deduct</i>	-0.77	
			<i>For 316 Stainless Steel, Add</i>	4.10	
			<i>For Aluminum, Add</i>	0.23	
			<i>For Galvanized Steel, Add</i>	0.79	
			<i>For 304 Stainless Steel, Add</i>	3.65	
			<i>For High Strength Steel (HSS), Add</i>	0.93	
05 12 23 00-0453	LF		1-1/2" x 1-1/2" x 3/16" Angle Iron.....	5.15	2.70
			<i>For &gt;100 To 250, Deduct</i>	-0.27	
			<i>For &gt;250 To 500, Deduct</i>	-0.40	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.62	
			<i>For &gt;1,000, Deduct</i>	-0.84	
			<i>For 316 Stainless Steel, Add</i>	4.96	
			<i>For Aluminum, Add</i>	0.28	
			<i>For Galvanized Steel, Add</i>	0.96	
			<i>For 304 Stainless Steel, Add</i>	4.42	
			<i>For High Strength Steel (HSS), Add</i>	1.03	

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0454 LF 2" x 2" x 3/16" Angle Iron .....	5.96	2.90
<i>For &gt;100 To 250, Deduct</i>	-0.29	
<i>For &gt;250 To 500, Deduct</i>	-0.44	
<i>For &gt;500 To 1,000, Deduct</i>	-0.68	
<i>For &gt;1,000, Deduct</i>	-0.93	
<i>For 316 Stainless Steel, Add</i>	6.75	
<i>For Aluminum, Add</i>	0.38	
<i>For Galvanized Steel, Add</i>	1.31	
<i>For 304 Stainless Steel, Add</i>	6.01	
<i>For High Strength Steel (HSS), Add</i>	1.19	
05 12 23 00-0455 LF 2-1/2" x 2" x 3/16" Angle Iron .....	6.52	3.10
<i>For &gt;100 To 250, Deduct</i>	-0.31	
<i>For &gt;250 To 500, Deduct</i>	-0.47	
<i>For &gt;500 To 1,000, Deduct</i>	-0.74	
<i>For &gt;1,000, Deduct</i>	-1.01	
<i>For 316 Stainless Steel, Add</i>	7.62	
<i>For Aluminum, Add</i>	0.43	
<i>For Galvanized Steel, Add</i>	1.48	
<i>For 304 Stainless Steel, Add</i>	6.78	
<i>For High Strength Steel (HSS), Add</i>	1.30	
05 12 23 00-0456 LF 2-1/2" x 2-1/2" x 3/16" Angle Iron .....	7.09	3.32
<i>For &gt;100 To 250, Deduct</i>	-0.33	
<i>For &gt;250 To 500, Deduct</i>	-0.51	
<i>For &gt;500 To 1,000, Deduct</i>	-0.80	
<i>For &gt;1,000, Deduct</i>	-1.09	
<i>For 316 Stainless Steel, Add</i>	8.51	
<i>For Aluminum, Add</i>	0.48	
<i>For Galvanized Steel, Add</i>	1.65	
<i>For 304 Stainless Steel, Add</i>	7.58	
<i>For High Strength Steel (HSS), Add</i>	1.42	
05 12 23 00-0457 LF 3" x 2" x 3/16" Angle Iron .....	7.09	3.32
<i>For &gt;100 To 250, Deduct</i>	-0.33	
<i>For &gt;250 To 500, Deduct</i>	-0.51	
<i>For &gt;500 To 1,000, Deduct</i>	-0.80	
<i>For &gt;1,000, Deduct</i>	-1.09	
<i>For 316 Stainless Steel, Add</i>	8.51	
<i>For Aluminum, Add</i>	0.48	
<i>For Galvanized Steel, Add</i>	1.65	
<i>For 304 Stainless Steel, Add</i>	7.58	
<i>For High Strength Steel (HSS), Add</i>	1.42	
05 12 23 00-0458 LF 3" x 2-1/2" x 3/16" Angle Iron .....	7.82	3.67
<i>For &gt;100 To 250, Deduct</i>	-0.37	
<i>For &gt;250 To 500, Deduct</i>	-0.56	
<i>For &gt;500 To 1,000, Deduct</i>	-0.88	
<i>For &gt;1,000, Deduct</i>	-1.20	
<i>For 316 Stainless Steel, Add</i>	9.38	
<i>For Aluminum, Add</i>	0.53	
<i>For Galvanized Steel, Add</i>	1.82	
<i>For 304 Stainless Steel, Add</i>	8.35	
<i>For High Strength Steel (HSS), Add</i>	1.56	
05 12 23 00-0459 LF 3" x 3" x 3/16" Angle Iron .....	8.56	4.02
<i>For &gt;100 To 250, Deduct</i>	-0.40	
<i>For &gt;250 To 500, Deduct</i>	-0.62	
<i>For &gt;500 To 1,000, Deduct</i>	-0.96	
<i>For &gt;1,000, Deduct</i>	-1.31	
<i>For 316 Stainless Steel, Add</i>	10.27	
<i>For Aluminum, Add</i>	0.58	
<i>For Galvanized Steel, Add</i>	1.99	
<i>For 304 Stainless Steel, Add</i>	9.15	
<i>For High Strength Steel (HSS), Add</i>	1.71	
<b>05 12 23 00-0460 1/4" Thick (05 12 23 00-0439)</b>		
05 12 23 00-0461 LF 1-1/2" x 1" x 1/4" Angle Iron .....	5.19	2.67
<i>For &gt;100 To 250, Deduct</i>	-0.27	
<i>For &gt;250 To 500, Deduct</i>	-0.40	
<i>For &gt;500 To 1,000, Deduct</i>	-0.61	
<i>For &gt;1,000, Deduct</i>	-0.83	
<i>For 316 Stainless Steel, Add</i>	5.25	
<i>For Aluminum, Add</i>	0.30	
<i>For Galvanized Steel, Add</i>	1.02	
<i>For 304 Stainless Steel, Add</i>	4.67	
<i>For High Strength Steel (HSS), Add</i>	1.04	
05 12 23 00-0462 LF 1-1/2" x 1-1/2" x 1/4" Angle Iron .....	5.80	2.85
<i>For &gt;100 To 250, Deduct</i>	-0.29	
<i>For &gt;250 To 500, Deduct</i>	-0.43	
<i>For &gt;500 To 1,000, Deduct</i>	-0.67	
<i>For &gt;1,000, Deduct</i>	-0.91	
<i>For 316 Stainless Steel, Add</i>	6.40	
<i>For Aluminum, Add</i>	0.36	
<i>For Galvanized Steel, Add</i>	1.24	
<i>For 304 Stainless Steel, Add</i>	5.70	
<i>For High Strength Steel (HSS), Add</i>	1.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0463	LF	2"	2" x 2" x 1/4" Angle Iron.....	6.81	3.04
			<i>For &gt;100 To 250, Deduct</i>	-0.30	
			<i>For &gt;250 To 500, Deduct</i>	-0.47	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.75	
			<i>For &gt;1,000, Deduct</i>	-1.02	
			<i>For 316 Stainless Steel, Add</i>	8.80	
			<i>For Aluminum, Add</i>	0.50	
			<i>For Galvanized Steel, Add</i>	1.71	
			<i>For 304 Stainless Steel, Add</i>	7.84	
			<i>For High Strength Steel (HSS), Add</i>	1.36	
05 12 23 00-0464	LF	2-1/2"	2-1/2" x 2" x 1/4" Angle Iron.....	7.62	3.37
			<i>For &gt;100 To 250, Deduct</i>	-0.34	
			<i>For &gt;250 To 500, Deduct</i>	-0.53	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.83	
			<i>For &gt;1,000, Deduct</i>	-1.13	
			<i>For 316 Stainless Steel, Add</i>	10.02	
			<i>For Aluminum, Add</i>	0.56	
			<i>For Galvanized Steel, Add</i>	1.94	
			<i>For 304 Stainless Steel, Add</i>	8.92	
			<i>For High Strength Steel (HSS), Add</i>	1.52	
05 12 23 00-0465	LF	2-1/2"	2-1/2" x 2-1/2" x 1/4" Angle Iron.....	8.46	3.69
			<i>For &gt;100 To 250, Deduct</i>	-0.37	
			<i>For &gt;250 To 500, Deduct</i>	-0.58	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.92	
			<i>For &gt;1,000, Deduct</i>	-1.25	
			<i>For 316 Stainless Steel, Add</i>	11.33	
			<i>For Aluminum, Add</i>	0.64	
			<i>For Galvanized Steel, Add</i>	2.19	
			<i>For 304 Stainless Steel, Add</i>	10.09	
			<i>For High Strength Steel (HSS), Add</i>	1.69	
05 12 23 00-0466	LF	3"	3" x 2" x 1/4" Angle Iron.....	8.46	3.69
			<i>For &gt;100 To 250, Deduct</i>	-0.37	
			<i>For &gt;250 To 500, Deduct</i>	-0.58	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.92	
			<i>For &gt;1,000, Deduct</i>	-1.25	
			<i>For 316 Stainless Steel, Add</i>	11.33	
			<i>For Aluminum, Add</i>	0.64	
			<i>For Galvanized Steel, Add</i>	2.19	
			<i>For 304 Stainless Steel, Add</i>	10.09	
			<i>For High Strength Steel (HSS), Add</i>	1.69	
05 12 23 00-0467	LF	3"	3" x 2-1/2" x 1/4" Angle Iron.....	9.36	4.10
			<i>For &gt;100 To 250, Deduct</i>	-0.41	
			<i>For &gt;250 To 500, Deduct</i>	-0.64	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.02	
			<i>For &gt;1,000, Deduct</i>	-1.39	
			<i>For 316 Stainless Steel, Add</i>	12.45	
			<i>For Aluminum, Add</i>	0.70	
			<i>For Galvanized Steel, Add</i>	2.41	
			<i>For 304 Stainless Steel, Add</i>	11.09	
			<i>For High Strength Steel (HSS), Add</i>	1.87	
05 12 23 00-0468	LF	3"	3" x 3" x 1/4" Angle Iron.....	10.23	4.50
			<i>For &gt;100 To 250, Deduct</i>	-0.45	
			<i>For &gt;250 To 500, Deduct</i>	-0.71	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.11	
			<i>For &gt;1,000, Deduct</i>	-1.52	
			<i>For 316 Stainless Steel, Add</i>	13.54	
			<i>For Aluminum, Add</i>	0.76	
			<i>For Galvanized Steel, Add</i>	2.62	
			<i>For 304 Stainless Steel, Add</i>	12.06	
			<i>For High Strength Steel (HSS), Add</i>	2.05	
05 12 23 00-0469	LF	3-1/2"	3-1/2" x 3" x 1/4" Angle Iron.....	11.11	4.84
			<i>For &gt;100 To 250, Deduct</i>	-0.48	
			<i>For &gt;250 To 500, Deduct</i>	-0.76	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.20	
			<i>For &gt;1,000, Deduct</i>	-1.64	
			<i>For 316 Stainless Steel, Add</i>	14.91	
			<i>For Aluminum, Add</i>	0.84	
			<i>For Galvanized Steel, Add</i>	2.89	
			<i>For 304 Stainless Steel, Add</i>	13.28	
			<i>For High Strength Steel (HSS), Add</i>	2.22	
05 12 23 00-0470	LF	3-1/2"	3-1/2" x 3-1/2" x 1/4" Angle Iron.....	11.76	0.50
			<i>For &gt;100 To 250, Deduct</i>	-0.51	
			<i>For &gt;250 To 500, Deduct</i>	-0.80	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.26	
			<i>For &gt;1,000, Deduct</i>	-1.72	
			<i>For 316 Stainless Steel, Add</i>	16.06	
			<i>For Aluminum, Add</i>	0.90	
			<i>For Galvanized Steel, Add</i>	3.11	
			<i>For 304 Stainless Steel, Add</i>	14.31	
			<i>For High Strength Steel (HSS), Add</i>	2.35	

<b>05</b>	<b>05 Metals</b>
	<b>05 10 Structural Metal Framing</b>
	<b>05 12 Structural Steel Framing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0471 LF 4" x 3" x 1/4" Angle Iron .....	11.76	5.05
For >100 To 250, Deduct	-0.51	
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-1.26	
For >1,000, Deduct	-1.72	
For 316 Stainless Steel, Add	16.06	
For Aluminum, Add	0.90	
For Galvanized Steel, Add	3.11	
For 304 Stainless Steel, Add	14.31	
For High Strength Steel (HSS), Add	2.35	
05 12 23 00-0472 LF 4" x 3-1/2" x 1/4" Angle Iron .....	12.38	5.26
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-0.84	
For >500 To 1,000, Deduct	-1.32	
For >1,000, Deduct	-1.81	
For 316 Stainless Steel, Add	17.12	
For Aluminum, Add	0.96	
For Galvanized Steel, Add	3.32	
For 304 Stainless Steel, Add	15.25	
For High Strength Steel (HSS), Add	2.48	
05 12 23 00-0473 LF 4" x 4" x 1/4" Angle Iron .....	13.04	5.50
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-0.88	
For >500 To 1,000, Deduct	-1.39	
For >1,000, Deduct	-1.89	
For 316 Stainless Steel, Add	18.27	
For Aluminum, Add	1.03	
For Galvanized Steel, Add	3.54	
For 304 Stainless Steel, Add	16.27	
For High Strength Steel (HSS), Add	2.61	
05 12 23 00-0474 LF 5" x 3" x 1/4" Angle Iron .....	13.04	5.50
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-0.88	
For >500 To 1,000, Deduct	-1.39	
For >1,000, Deduct	-1.89	
For 316 Stainless Steel, Add	18.27	
For Aluminum, Add	1.03	
For Galvanized Steel, Add	3.54	
For 304 Stainless Steel, Add	16.27	
For High Strength Steel (HSS), Add	2.61	
05 12 23 00-0475 LF 5" x 3-1/2" x 1/4" Angle Iron .....	13.76	5.79
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-0.92	
For >500 To 1,000, Deduct	-1.46	
For >1,000, Deduct	-2.00	
For 316 Stainless Steel, Add	19.33	
For Aluminum, Add	1.09	
For Galvanized Steel, Add	3.74	
For 304 Stainless Steel, Add	17.21	
For High Strength Steel (HSS), Add	2.75	
<b>05 12 23 00-0476 5/16" Thick</b> <small>(05 12 23 00-0439)</small>		
05 12 23 00-0477 LF 2-1/2" x 2" x 5/16" Angle Iron .....	9.10	3.92
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.62	
For >500 To 1,000, Deduct	-0.98	
For >1,000, Deduct	-1.33	
For 316 Stainless Steel, Add	12.45	
For Aluminum, Add	0.70	
For Galvanized Steel, Add	2.41	
For 304 Stainless Steel, Add	11.09	
For High Strength Steel (HSS), Add	1.82	
05 12 23 00-0478 LF 2-1/2" x 2-1/2" x 5/16" Angle Iron .....	9.87	4.15
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.66	
For >500 To 1,000, Deduct	-1.05	
For >1,000, Deduct	-1.43	
For 316 Stainless Steel, Add	13.86	
For Aluminum, Add	0.78	
For Galvanized Steel, Add	2.68	
For 304 Stainless Steel, Add	12.34	
For High Strength Steel (HSS), Add	1.97	
05 12 23 00-0479 LF 3" x 2" x 5/16" Angle Iron .....	9.87	4.15
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.66	
For >500 To 1,000, Deduct	-1.05	
For >1,000, Deduct	-1.43	
For 316 Stainless Steel, Add	13.86	
For Aluminum, Add	0.78	
For Galvanized Steel, Add	2.68	
For 304 Stainless Steel, Add	12.34	
For High Strength Steel (HSS), Add	1.97	



	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12
		<b>05</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0480	LF		3" x 2-1/2" x 5/16" Angle Iron.....	10.92	4.55
			For >100 To 250, Deduct	-0.46	
			For >250 To 500, Deduct	-0.73	
			For >500 To 1,000, Deduct	-1.15	
			For >1,000, Deduct	-1.58	
			For 316 Stainless Steel, Add	15.52	
			For Aluminum, Add	0.87	
			For Galvanized Steel, Add	3.01	
			For 304 Stainless Steel, Add	13.82	
			For High Strength Steel (HSS), Add	2.18	
05 12 23 00-0481	LF		3" x 3" x 5/16" Angle Iron.....	11.87	4.94
			For >100 To 250, Deduct	-0.49	
			For >250 To 500, Deduct	-0.79	
			For >500 To 1,000, Deduct	-1.25	
			For >1,000, Deduct	-1.71	
			For 316 Stainless Steel, Add	16.90	
			For Aluminum, Add	0.95	
			For Galvanized Steel, Add	3.27	
			For 304 Stainless Steel, Add	15.05	
			For High Strength Steel (HSS), Add	2.37	
05 12 23 00-0482	LF		3-1/2" x 3" x 5/16" Angle Iron.....	12.63	5.19
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-0.83	
			For >500 To 1,000, Deduct	-1.32	
			For >1,000, Deduct	-1.81	
			For 316 Stainless Steel, Add	18.27	
			For Aluminum, Add	1.03	
			For Galvanized Steel, Add	3.54	
			For 304 Stainless Steel, Add	16.27	
			For High Strength Steel (HSS), Add	2.53	
05 12 23 00-0483	LF		3-1/2" x 3-1/2" x 5/16" Angle Iron.....	13.49	5.46
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.88	
			For >500 To 1,000, Deduct	-1.40	
			For >1,000, Deduct	-1.92	
			For 316 Stainless Steel, Add	19.90	
			For Aluminum, Add	1.12	
			For Galvanized Steel, Add	3.86	
			For 304 Stainless Steel, Add	17.73	
			For High Strength Steel (HSS), Add	2.70	
05 12 23 00-0484	LF		4" x 3" x 5/16" Angle Iron.....	13.49	5.46
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.88	
			For >500 To 1,000, Deduct	-1.40	
			For >1,000, Deduct	-1.92	
			For 316 Stainless Steel, Add	19.90	
			For Aluminum, Add	1.12	
			For Galvanized Steel, Add	3.86	
			For 304 Stainless Steel, Add	17.73	
			For High Strength Steel (HSS), Add	2.70	
05 12 23 00-0485	LF		4" x 3-1/2" x 5/16" Angle Iron.....	14.34	5.77
			For >100 To 250, Deduct	-0.58	
			For >250 To 500, Deduct	-0.94	
			For >500 To 1,000, Deduct	-1.49	
			For >1,000, Deduct	-2.04	
			For 316 Stainless Steel, Add	21.28	
			For Aluminum, Add	1.20	
			For Galvanized Steel, Add	4.12	
			For 304 Stainless Steel, Add	18.95	
			For High Strength Steel (HSS), Add	2.87	
05 12 23 00-0486	LF		4" x 4" x 5/16" Angle Iron.....	15.12	6.02
			For >100 To 250, Deduct	-0.60	
			For >250 To 500, Deduct	-0.98	
			For >500 To 1,000, Deduct	-1.56	
			For >1,000, Deduct	-2.14	
			For 316 Stainless Steel, Add	22.72	
			For Aluminum, Add	1.28	
			For Galvanized Steel, Add	4.40	
			For 304 Stainless Steel, Add	20.24	
			For High Strength Steel (HSS), Add	3.02	
05 12 23 00-0487	LF		5" x 3" x 5/16" Angle Iron.....	15.12	6.02
			For >100 To 250, Deduct	-0.60	
			For >250 To 500, Deduct	-0.98	
			For >500 To 1,000, Deduct	-1.56	
			For >1,000, Deduct	-2.14	
			For 316 Stainless Steel, Add	22.72	
			For Aluminum, Add	1.28	
			For Galvanized Steel, Add	4.40	
			For 304 Stainless Steel, Add	20.24	
			For High Strength Steel (HSS), Add	3.02	

## 05 Metals

## 05 10 Structural Metal Framing

## 05 12 Structural Steel Framing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0488	LF		5" x 3-1/2" x 5/16" Angle Iron.....	15.87	6.27
			For >100 To 250, Deduct	-0.63	
			For >250 To 500, Deduct	-1.02	
			For >500 To 1,000, Deduct	-1.63	
			For >1,000, Deduct	-2.24	
			For 316 Stainless Steel, Add	24.03	
			For Aluminum, Add	1.35	
			For Galvanized Steel, Add	4.66	
			For 304 Stainless Steel, Add	21.40	
			For High Strength Steel (HSS), Add	3.17	
05 12 23 00-0489	LF		5" x 5" x 5/16" Angle Iron.....	17.63	6.53
			For >100 To 250, Deduct	-0.65	
			For >250 To 500, Deduct	-1.09	
			For >500 To 1,000, Deduct	-1.75	
			For >1,000, Deduct	-2.41	
			For 316 Stainless Steel, Add	28.51	
			For Aluminum, Add	1.60	
			For Galvanized Steel, Add	5.52	
			For 304 Stainless Steel, Add	25.39	
			For High Strength Steel (HSS), Add	3.53	
05 12 23 00-0490	LF		6" x 3-1/2" x 5/16" Angle Iron.....	17.54	6.81
			For >100 To 250, Deduct	-0.68	
			For >250 To 500, Deduct	-1.12	
			For >500 To 1,000, Deduct	-1.79	
			For >1,000, Deduct	-2.45	
			For 316 Stainless Steel, Add	27.07	
			For Aluminum, Add	1.52	
			For Galvanized Steel, Add	5.25	
			For 304 Stainless Steel, Add	24.11	
			For High Strength Steel (HSS), Add	3.51	
05 12 23 00-0491			<b>3/8" Thick</b> (05 12 23 00-0493)		
05 12 23 00-0492	LF		3" x 2" x 3/8" Angle Iron.....	10.88	4.34
			For >100 To 250, Deduct	-0.43	
			For >250 To 500, Deduct	-0.71	
			For >500 To 1,000, Deduct	-1.12	
			For >1,000, Deduct	-1.54	
			For 316 Stainless Steel, Add	16.29	
			For Aluminum, Add	0.92	
			For Galvanized Steel, Add	3.16	
			For 304 Stainless Steel, Add	14.51	
			For High Strength Steel (HSS), Add	2.18	
05 12 23 00-0493	LF		3" x 2-1/2" x 3/8" Angle Iron.....	11.98	4.70
			For >100 To 250, Deduct	-0.47	
			For >250 To 500, Deduct	-0.77	
			For >500 To 1,000, Deduct	-1.23	
			For >1,000, Deduct	-1.68	
			For 316 Stainless Steel, Add	18.27	
			For Aluminum, Add	1.03	
			For Galvanized Steel, Add	3.54	
			For 304 Stainless Steel, Add	16.27	
			For High Strength Steel (HSS), Add	2.40	
05 12 23 00-0494	LF		3" x 3" x 3/8" Angle Iron.....	12.97	5.06
			For >100 To 250, Deduct	-0.51	
			For >250 To 500, Deduct	-0.83	
			For >500 To 1,000, Deduct	-1.32	
			For >1,000, Deduct	-1.82	
			For 316 Stainless Steel, Add	19.90	
			For Aluminum, Add	1.12	
			For Galvanized Steel, Add	3.86	
			For 304 Stainless Steel, Add	17.73	
			For High Strength Steel (HSS), Add	2.59	
05 12 23 00-0495	LF		3-1/2" x 3" x 3/8" Angle Iron.....	13.77	5.20
			For >100 To 250, Deduct	-0.52	
			For >250 To 500, Deduct	-0.86	
			For >500 To 1,000, Deduct	-1.38	
			For >1,000, Deduct	-1.90	
			For 316 Stainless Steel, Add	21.89	
			For Aluminum, Add	1.23	
			For Galvanized Steel, Add	4.24	
			For 304 Stainless Steel, Add	19.49	
			For High Strength Steel (HSS), Add	2.75	
05 12 23 00-0496	LF		3-1/2" x 3-1/2" x 3/8" Angle Iron.....	14.66	5.49
			For >100 To 250, Deduct	-0.55	
			For >250 To 500, Deduct	-0.92	
			For >500 To 1,000, Deduct	-1.47	
			For >1,000, Deduct	-2.01	
			For 316 Stainless Steel, Add	23.49	
			For Aluminum, Add	1.32	
			For Galvanized Steel, Add	4.55	
			For 304 Stainless Steel, Add	20.92	
			For High Strength Steel (HSS), Add	2.93	



	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0497 LF 4" x 3" x 3/8" Angle Iron .....	14.66	5.49
<i>For &gt;100 To 250, Deduct</i>	-0.55	
<i>For &gt;250 To 500, Deduct</i>	-0.92	
<i>For &gt;500 To 1,000, Deduct</i>	-1.47	
<i>For &gt;1,000, Deduct</i>	-2.01	
<i>For 316 Stainless Steel, Add</i>	23.49	
<i>For Aluminum, Add</i>	1.32	
<i>For Galvanized Steel, Add</i>	4.55	
<i>For 304 Stainless Steel, Add</i>	20.92	
<i>For High Strength Steel (HSS), Add</i>	2.93	
05 12 23 00-0498 LF 4" x 3-1/2" x 3/8" Angle Iron .....	15.83	5.98
<i>For &gt;100 To 250, Deduct</i>	-0.60	
<i>For &gt;250 To 500, Deduct</i>	-0.99	
<i>For &gt;500 To 1,000, Deduct</i>	-1.59	
<i>For &gt;1,000, Deduct</i>	-2.18	
<i>For 316 Stainless Steel, Add</i>	25.15	
<i>For Aluminum, Add</i>	1.41	
<i>For Galvanized Steel, Add</i>	4.87	
<i>For 304 Stainless Steel, Add</i>	22.40	
<i>For High Strength Steel (HSS), Add</i>	3.17	
05 12 23 00-0499 LF 4" x 4" x 3/8" Angle Iron .....	16.66	6.16
<i>For &gt;100 To 250, Deduct</i>	-0.62	
<i>For &gt;250 To 500, Deduct</i>	-1.03	
<i>For &gt;500 To 1,000, Deduct</i>	-1.65	
<i>For &gt;1,000, Deduct</i>	-2.27	
<i>For 316 Stainless Steel, Add</i>	27.07	
<i>For Aluminum, Add</i>	1.52	
<i>For Galvanized Steel, Add</i>	5.25	
<i>For 304 Stainless Steel, Add</i>	24.11	
<i>For High Strength Steel (HSS), Add</i>	3.33	
05 12 23 00-0500 LF 5" x 3" x 3/8" Angle Iron .....	17.00	6.40
<i>For &gt;100 To 250, Deduct</i>	-0.64	
<i>For &gt;250 To 500, Deduct</i>	-1.07	
<i>For &gt;500 To 1,000, Deduct</i>	-1.70	
<i>For &gt;1,000, Deduct</i>	-2.34	
<i>For 316 Stainless Steel, Add</i>	27.07	
<i>For Aluminum, Add</i>	1.52	
<i>For Galvanized Steel, Add</i>	5.25	
<i>For 304 Stainless Steel, Add</i>	24.11	
<i>For High Strength Steel (HSS), Add</i>	3.40	
05 12 23 00-0501 LF 5" x 3-1/2" x 3/8" Angle Iron .....	18.18	6.89
<i>For &gt;100 To 250, Deduct</i>	-0.69	
<i>For &gt;250 To 500, Deduct</i>	-1.14	
<i>For &gt;500 To 1,000, Deduct</i>	-1.83	
<i>For &gt;1,000, Deduct</i>	-2.51	
<i>For 316 Stainless Steel, Add</i>	28.74	
<i>For Aluminum, Add</i>	1.62	
<i>For Galvanized Steel, Add</i>	5.57	
<i>For 304 Stainless Steel, Add</i>	25.59	
<i>For High Strength Steel (HSS), Add</i>	3.64	
05 12 23 00-0502 LF 5" x 5" x 3/8" Angle Iron .....	21.37	8.03
<i>For &gt;100 To 250, Deduct</i>	-0.80	
<i>For &gt;250 To 500, Deduct</i>	-1.34	
<i>For &gt;500 To 1,000, Deduct</i>	-2.14	
<i>For &gt;1,000, Deduct</i>	-2.94	
<i>For 316 Stainless Steel, Add</i>	34.08	
<i>For Aluminum, Add</i>	1.92	
<i>For Galvanized Steel, Add</i>	6.60	
<i>For 304 Stainless Steel, Add</i>	30.35	
<i>For High Strength Steel (HSS), Add</i>	4.27	
05 12 23 00-0503 LF 6" x 3-1/2" x 3/8" Angle Iron .....	20.06	7.47
<i>For &gt;100 To 250, Deduct</i>	-0.75	
<i>For &gt;250 To 500, Deduct</i>	-1.25	
<i>For &gt;500 To 1,000, Deduct</i>	-2.00	
<i>For &gt;1,000, Deduct</i>	-2.75	
<i>For 316 Stainless Steel, Add</i>	32.32	
<i>For Aluminum, Add</i>	1.82	
<i>For Galvanized Steel, Add</i>	6.26	
<i>For 304 Stainless Steel, Add</i>	28.79	
<i>For High Strength Steel (HSS), Add</i>	4.01	
05 12 23 00-0504 LF 6" x 4" x 3/8" Angle Iron .....	21.37	8.03
<i>For &gt;100 To 250, Deduct</i>	-0.80	
<i>For &gt;250 To 500, Deduct</i>	-1.34	
<i>For &gt;500 To 1,000, Deduct</i>	-2.14	
<i>For &gt;1,000, Deduct</i>	-2.94	
<i>For 316 Stainless Steel, Add</i>	34.08	
<i>For Aluminum, Add</i>	1.92	
<i>For Galvanized Steel, Add</i>	6.60	
<i>For 304 Stainless Steel, Add</i>	30.35	
<i>For High Strength Steel (HSS), Add</i>	4.27	

05	<b>05 Metals</b>
	<b>05 10 Structural Metal Framing</b>
	<b>05 12 Structural Steel Framing</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0505	LF		6" x 6" x 3/8" Angle Iron ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1,000, Deduct</i> <i>For &gt;1,000, Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	25.75 -0.96 -1.61 -2.57 -3.54 41.28 2.32 8.00 36.77 5.15	9.64
05 12 23 00-0506	LF		7" x 4" x 3/8" Angle Iron ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1,000, Deduct</i> <i>For &gt;1,000, Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	23.56 -0.88 -1.47 -2.36 -3.24 37.66 2.12 7.30 33.54 4.71	8.84
<b>05 12 23 00-0507</b>			<b>1/2" Thick</b> (05 12 23 00-0439)		
05 12 23 00-0508	LF		3" x 3" x 1/2" Angle Iron ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1,000, Deduct</i> <i>For &gt;1,000, Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	15.03 -0.52 -0.89 -1.44 -1.99 26.05 1.47 5.05 23.20 3.01	5.17
05 12 23 00-0509	LF		4" x 3" x 1/2" Angle Iron ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1,000, Deduct</i> <i>For &gt;1,000, Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	17.76 -0.61 -1.06 -1.70 -2.35 30.75 1.73 5.96 27.39 3.55	6.11
05 12 23 00-0510	LF		4" x 3-1/2" x 1/2" Angle Iron ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1,000, Deduct</i> <i>For &gt;1,000, Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	19.04 -0.66 -1.13 -1.83 -2.52 32.96 1.85 6.39 29.36 3.81	6.55
05 12 23 00-0511	LF		4" x 4" x 1/2" Angle Iron ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1,000, Deduct</i> <i>For &gt;1,000, Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	20.48 -0.71 -1.22 -1.96 -2.71 35.46 1.99 6.87 31.58 4.10	7.05
05 12 23 00-0512	LF		5" x 3" x 1/2" Angle Iron ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1,000, Deduct</i> <i>For &gt;1,000, Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	20.48 -0.71 -1.22 -1.96 -2.71 35.46 1.99 6.87 31.58 4.10	7.05
05 12 23 00-0513	LF		5" x 3-1/2" x 1/2" Angle Iron ..... <i>For &gt;100 To 250, Deduct</i> <i>For &gt;250 To 500, Deduct</i> <i>For &gt;500 To 1,000, Deduct</i> <i>For &gt;1,000, Deduct</i> <i>For 316 Stainless Steel, Add</i> <i>For Aluminum, Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For High Strength Steel (HSS), Add</i>	21.75 -0.75 -1.29 -2.09 -2.88 37.66 2.12 7.30 33.54 4.35	7.49





	<b>Metals</b>	<b>05</b>
	Structural Metal Framing	05 10
	Structural Steel Framing	05 12

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MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0514	LF	5" x 5" x 1/2" Angle Iron .....	25.91	8.92
		For >100 To 250, Deduct	-0.89	
		For >250 To 500, Deduct	-1.54	
		For >500 To 1,000, Deduct	-2.48	
		For >1,000, Deduct	-3.43	
		For 316 Stainless Steel, Add	44.86	
		For Aluminum, Add	2.52	
		For Galvanized Steel, Add	8.69	
		For 304 Stainless Steel, Add	39.96	
		For High Strength Steel (HSS), Add	5.18	
05 12 23 00-0515	LF	6" x 4" x 1/2" Angle Iron .....	25.91	8.92
		For >100 To 250, Deduct	-0.89	
		For >250 To 500, Deduct	-1.54	
		For >500 To 1,000, Deduct	-2.48	
		For >1,000, Deduct	-3.43	
		For 316 Stainless Steel, Add	44.86	
		For Aluminum, Add	2.52	
		For Galvanized Steel, Add	8.69	
		For 304 Stainless Steel, Add	39.96	
		For High Strength Steel (HSS), Add	5.18	
05 12 23 00-0516	LF	6" x 6" x 1/2" Angle Iron .....	31.35	10.79
		For >100 To 250, Deduct	-1.08	
		For >250 To 500, Deduct	-1.86	
		For >500 To 1,000, Deduct	-3.01	
		For >1,000, Deduct	-4.15	
		For 316 Stainless Steel, Add	54.27	
		For Aluminum, Add	3.05	
		For Galvanized Steel, Add	10.52	
		For 304 Stainless Steel, Add	48.34	
		For High Strength Steel (HSS), Add	6.27	
05 12 23 00-0517	LF	7" x 4" x 1/2" Angle Iron .....	28.63	9.85
		For >100 To 250, Deduct	-0.99	
		For >250 To 500, Deduct	-1.70	
		For >500 To 1,000, Deduct	-2.75	
		For >1,000, Deduct	-3.79	
		For 316 Stainless Steel, Add	49.57	
		For Aluminum, Add	2.79	
		For Galvanized Steel, Add	9.60	
		For 304 Stainless Steel, Add	44.15	
		For High Strength Steel (HSS), Add	5.73	
05 12 23 00-0518	LF	8" x 4" x 1/2" Angle Iron .....	31.35	10.79
		For >100 To 250, Deduct	-1.08	
		For >250 To 500, Deduct	-1.86	
		For >500 To 1,000, Deduct	-3.01	
		For >1,000, Deduct	-4.15	
		For 316 Stainless Steel, Add	54.27	
		For Aluminum, Add	3.05	
		For Galvanized Steel, Add	10.52	
		For 304 Stainless Steel, Add	48.34	
		For High Strength Steel (HSS), Add	6.27	
05 12 23 00-0519	LF	8" x 6" x 1/2" Angle Iron .....	36.80	12.66
		For >100 To 250, Deduct	-1.27	
		For >250 To 500, Deduct	-2.19	
		For >500 To 1,000, Deduct	-3.53	
		For >1,000, Deduct	-4.87	
		For 316 Stainless Steel, Add	63.71	
		For Aluminum, Add	3.58	
		For Galvanized Steel, Add	12.34	
		For 304 Stainless Steel, Add	56.74	
		For High Strength Steel (HSS), Add	7.36	
05 12 23 00-0520	LF	8" x 8" x 1/2" Angle Iron .....	42.22	14.53
		For >100 To 250, Deduct	-1.45	
		For >250 To 500, Deduct	-2.51	
		For >500 To 1,000, Deduct	-4.05	
		For >1,000, Deduct	-5.59	
		For 316 Stainless Steel, Add	73.09	
		For Aluminum, Add	4.11	
		For Galvanized Steel, Add	14.16	
		For 304 Stainless Steel, Add	65.09	
		For High Strength Steel (HSS), Add	8.44	
05 12 23 00-0521		5/8" Thick <small>(05 12 23 00-0439)</small>		
05 12 23 00-0522	LF	4" x 4" x 5/8" Angle Iron .....	24.36	8.08
		For >100 To 250, Deduct	-0.81	
		For >250 To 500, Deduct	-1.42	
		For >500 To 1,000, Deduct	-2.30	
		For >1,000, Deduct	-3.17	
		For 316 Stainless Steel, Add	43.49	
		For Aluminum, Add	2.45	
		For Galvanized Steel, Add	8.43	
		For High Strength Steel (HSS), Add	4.87	

05	<b>05 Metals</b>
	<b>05 10 Structural Metal Framing</b>
	<b>05 12 Structural Steel Framing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0523 LF 5" x 3-1/2" x 5/8" Angle Iron .....	26.06	8.65
For >100 To 250, Deduct	-0.86	
For >250 To 500, Deduct	-1.52	
For >500 To 1,000, Deduct	-2.46	
For >1,000, Deduct	-3.39	
For 316 Stainless Steel, Add	46.53	
For Aluminum, Add	2.62	
For Galvanized Steel, Add	9.01	
For High Strength Steel (HSS), Add	5.21	
05 12 23 00-0524 LF 5" x 5" x 5/8" Angle Iron .....	31.03	10.29
For >100 To 250, Deduct	-1.03	
For >250 To 500, Deduct	-1.80	
For >500 To 1,000, Deduct	-2.92	
For >1,000, Deduct	-4.04	
For 316 Stainless Steel, Add	55.39	
For Aluminum, Add	3.12	
For Galvanized Steel, Add	10.73	
For High Strength Steel (HSS), Add	6.21	
05 12 23 00-0525 LF 6" x 4" x 5/8" Angle Iron .....	31.03	10.29
For >100 To 250, Deduct	-1.03	
For >250 To 500, Deduct	-1.80	
For >500 To 1,000, Deduct	-2.92	
For >1,000, Deduct	-4.04	
For 316 Stainless Steel, Add	55.39	
For Aluminum, Add	3.12	
For Galvanized Steel, Add	10.73	
For High Strength Steel (HSS), Add	6.21	
05 12 23 00-0526 LF 6" x 6" x 5/8" Angle Iron .....	37.54	12.45
For >100 To 250, Deduct	-1.25	
For >250 To 500, Deduct	-2.18	
For >500 To 1,000, Deduct	-3.54	
For >1,000, Deduct	-4.89	
For 316 Stainless Steel, Add	67.01	
For Aluminum, Add	3.77	
For Galvanized Steel, Add	12.98	
For High Strength Steel (HSS), Add	7.51	
05 12 23 00-0527 LF 7" x 4" x 5/8" Angle Iron .....	34.28	11.37
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-1.99	
For >500 To 1,000, Deduct	-3.23	
For >1,000, Deduct	-4.47	
For 316 Stainless Steel, Add	61.18	
For Aluminum, Add	3.44	
For Galvanized Steel, Add	11.85	
For High Strength Steel (HSS), Add	6.86	
05 12 23 00-0528 LF 8" x 6" x 5/8" Angle Iron .....	44.21	14.67
For >100 To 250, Deduct	-1.47	
For >250 To 500, Deduct	-2.57	
For >500 To 1,000, Deduct	-4.17	
For >1,000, Deduct	-5.76	
For 316 Stainless Steel, Add	78.91	
For Aluminum, Add	4.44	
For Galvanized Steel, Add	15.29	
For High Strength Steel (HSS), Add	8.84	
05 12 23 00-0529 LF 8" x 8" x 5/8" Angle Iron .....	50.74	16.83
For >100 To 250, Deduct	-1.68	
For >250 To 500, Deduct	-2.95	
For >500 To 1,000, Deduct	-4.78	
For >1,000, Deduct	-6.61	
For 316 Stainless Steel, Add	90.56	
For Aluminum, Add	5.09	
For Galvanized Steel, Add	17.55	
For High Strength Steel (HSS), Add	10.15	
<b>05 12 23 00-0530 3/4" Thick (05 12 23 00-0439)</b>		
05 12 23 00-0531 LF 4" x 4" x 3/4" Angle Iron .....	27.93	8.93
For >100 To 250, Deduct	-0.89	
For >250 To 500, Deduct	-1.59	
For >500 To 1,000, Deduct	-2.59	
For >1,000, Deduct	-3.58	
For 316 Stainless Steel, Add	51.26	
For Aluminum, Add	2.88	
For Galvanized Steel, Add	9.93	
For High Strength Steel (HSS), Add	5.59	
05 12 23 00-0532 LF 5" x 3-1/2" x 3/4" Angle Iron .....	29.86	9.55
For >100 To 250, Deduct	-0.95	
For >250 To 500, Deduct	-1.70	
For >500 To 1,000, Deduct	-2.77	
For >1,000, Deduct	-3.83	
For 316 Stainless Steel, Add	54.82	
For Aluminum, Add	3.08	
For Galvanized Steel, Add	10.62	
For High Strength Steel (HSS), Add	5.97	



MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0533 LF 5" x 5" x 3/4" Angle Iron .....	35.61	11.38
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-2.03	
For >500 To 1,000, Deduct	-3.30	
For >1,000, Deduct	-4.57	
For 316 Stainless Steel, Add	65.38	
For Aluminum, Add	3.68	
For Galvanized Steel, Add	12.67	
For High Strength Steel (HSS), Add	7.12	
05 12 23 00-0534 LF 6" x 4" x 3/4" Angle Iron .....	35.61	11.38
For >100 To 250, Deduct	-1.14	
For >250 To 500, Deduct	-2.03	
For >500 To 1,000, Deduct	-3.30	
For >1,000, Deduct	-4.57	
For 316 Stainless Steel, Add	65.38	
For Aluminum, Add	3.68	
For Galvanized Steel, Add	12.67	
For High Strength Steel (HSS), Add	7.12	
05 12 23 00-0535 LF 6" x 6" x 3/4" Angle Iron .....	43.30	13.84
For >100 To 250, Deduct	-1.38	
For >250 To 500, Deduct	-2.47	
For >500 To 1,000, Deduct	-4.01	
For >1,000, Deduct	-5.56	
For 316 Stainless Steel, Add	79.49	
For Aluminum, Add	4.47	
For Galvanized Steel, Add	15.40	
For High Strength Steel (HSS), Add	8.66	
05 12 23 00-0536 LF 7" x 4" x 3/4" Angle Iron .....	39.52	12.64
For >100 To 250, Deduct	-1.26	
For >250 To 500, Deduct	-2.25	
For >500 To 1,000, Deduct	-3.66	
For >1,000, Deduct	-5.07	
For 316 Stainless Steel, Add	72.54	
For Aluminum, Add	4.08	
For Galvanized Steel, Add	14.06	
For High Strength Steel (HSS), Add	7.90	
05 12 23 00-0537 LF 8" x 4" x 3/4" Angle Iron .....	43.30	13.84
For >100 To 250, Deduct	-1.38	
For >250 To 500, Deduct	-2.47	
For >500 To 1,000, Deduct	-4.01	
For >1,000, Deduct	-5.56	
For 316 Stainless Steel, Add	79.49	
For Aluminum, Add	4.47	
For Galvanized Steel, Add	15.40	
For High Strength Steel (HSS), Add	8.66	
05 12 23 00-0538 LF 8" x 6" x 3/4" Angle Iron .....	51.00	16.31
For >100 To 250, Deduct	-1.63	
For >250 To 500, Deduct	-2.91	
For >500 To 1,000, Deduct	-4.72	
For >1,000, Deduct	-6.54	
For 316 Stainless Steel, Add	93.63	
For Aluminum, Add	5.27	
For Galvanized Steel, Add	18.14	
For High Strength Steel (HSS), Add	10.20	
05 12 23 00-0539 LF 8" x 8" x 3/4" Angle Iron .....	58.69	18.76
For >100 To 250, Deduct	-1.88	
For >250 To 500, Deduct	-3.34	
For >500 To 1,000, Deduct	-5.44	
For >1,000, Deduct	-7.53	
For 316 Stainless Steel, Add	107.74	
For Aluminum, Add	6.06	
For Galvanized Steel, Add	20.88	
For High Strength Steel (HSS), Add	11.74	
<b>05 12 23 00-0540 7/8" Thick</b> (05 12 23 00-0439)		
05 12 23 00-0541 LF 5" x 5" x 7/8" Angle Iron .....	39.86	12.25
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.22	
For >500 To 1,000, Deduct	-3.63	
For >1,000, Deduct	-5.03	
For 316 Stainless Steel, Add	75.30	
For Aluminum, Add	4.24	
For Galvanized Steel, Add	14.59	
For High Strength Steel (HSS), Add	7.97	
05 12 23 00-0542 LF 6" x 4" x 7/8" Angle Iron .....	39.86	12.25
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.22	
For >500 To 1,000, Deduct	-3.63	
For >1,000, Deduct	-5.03	
For 316 Stainless Steel, Add	75.30	
For Aluminum, Add	4.24	
For Galvanized Steel, Add	14.59	
For High Strength Steel (HSS), Add	7.97	

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0543	LF 6" x 6" x 7/8" Angle Iron .....	48.52	14.91
	<i>For &gt;100 To 250, Deduct</i>	-1.49	
	<i>For &gt;250 To 500, Deduct</i>	-2.70	
	<i>For &gt;500 To 1,000, Deduct</i>	-4.41	
	<i>For &gt;1,000, Deduct</i>	-6.12	
	<i>For 316 Stainless Steel, Add</i>	91.68	
	<i>For Aluminum, Add</i>	5.16	
	<i>For Galvanized Steel, Add</i>	17.76	
	<i>For High Strength Steel (HSS), Add</i>	9.70	
05 12 23 00-0544	LF 8" x 6" x 7/8" Angle Iron .....	57.31	17.60
	<i>For &gt;100 To 250, Deduct</i>	-1.76	
	<i>For &gt;250 To 500, Deduct</i>	-3.19	
	<i>For &gt;500 To 1,000, Deduct</i>	-5.21	
	<i>For &gt;1,000, Deduct</i>	-7.23	
	<i>For 316 Stainless Steel, Add</i>	108.29	
	<i>For Aluminum, Add</i>	6.09	
	<i>For Galvanized Steel, Add</i>	20.98	
	<i>For High Strength Steel (HSS), Add</i>	11.46	
05 12 23 00-0545	LF 8" x 8" x 7/8" Angle Iron .....	65.96	20.26
	<i>For &gt;100 To 250, Deduct</i>	-2.03	
	<i>For &gt;250 To 500, Deduct</i>	-3.68	
	<i>For &gt;500 To 1,000, Deduct</i>	-6.00	
	<i>For &gt;1,000, Deduct</i>	-8.32	
	<i>For 316 Stainless Steel, Add</i>	124.61	
	<i>For Aluminum, Add</i>	7.01	
	<i>For Galvanized Steel, Add</i>	24.14	
	<i>For High Strength Steel (HSS), Add</i>	13.19	
<b>05 12 23 00-0546</b>	<b>Bar Channel</b> <small>(05 12 23 00-0438)</small>		
05 12 23 00-0547	LF 1" x 1/2" x 1/8" Thick Bar Channel .....	3.64	
	<i>For 316 Stainless Steel, Add</i>	3.01	
	<i>For Aluminum, Add</i>	0.17	
	<i>For Galvanized Steel, Add</i>	0.58	
	<i>For 304 Stainless Steel, Add</i>	2.68	
	<i>For High Strength Steel (HSS), Add</i>	0.73	
05 12 23 00-0548	LF 1-1/4" x 1/2" x 1/8" Thick Bar Channel .....	4.07	
	<i>For 316 Stainless Steel, Add</i>	3.62	
	<i>For Aluminum, Add</i>	0.20	
	<i>For Galvanized Steel, Add</i>	0.70	
	<i>For 304 Stainless Steel, Add</i>	3.22	
	<i>For High Strength Steel (HSS), Add</i>	0.81	
05 12 23 00-0549	LF 1-1/2" x 1/2" x 1/8" Thick Bar Channel .....	4.43	
	<i>For 316 Stainless Steel, Add</i>	4.00	
	<i>For Aluminum, Add</i>	0.23	
	<i>For Galvanized Steel, Add</i>	0.78	
	<i>For 304 Stainless Steel, Add</i>	3.56	
	<i>For High Strength Steel (HSS), Add</i>	0.89	
05 12 23 00-0550	LF 1-1/2" x 3/4" x 1/8" Thick Bar Channel .....	5.10	
	<i>For 316 Stainless Steel, Add</i>	4.16	
	<i>For Aluminum, Add</i>	0.23	
	<i>For Galvanized Steel, Add</i>	0.81	
	<i>For 304 Stainless Steel, Add</i>	3.71	
	<i>For High Strength Steel (HSS), Add</i>	1.02	
05 12 23 00-0551	LF 2" x 1/2" x 1/8" Thick Bar Channel .....	5.39	
	<i>For 316 Stainless Steel, Add</i>	5.09	
	<i>For Aluminum, Add</i>	0.29	
	<i>For Galvanized Steel, Add</i>	0.99	
	<i>For 304 Stainless Steel, Add</i>	4.53	
05 12 23 00-0552	LF 2" x 1" x 1/8" Thick Bar Channel .....	7.22	
	<i>For 316 Stainless Steel, Add</i>	5.70	
	<i>For Aluminum, Add</i>	0.32	
	<i>For Galvanized Steel, Add</i>	1.10	
	<i>For 304 Stainless Steel, Add</i>	5.07	
<b>05 12 23 00-0553</b>	<b>Channels - C</b> <small>(05 12 23 00-0438)</small>		
05 12 23 00-0554	LF C2 x 1.78 - 2" Wide Channel .....	5.99	3.35
	<i>For &gt;100 To 250, Deduct</i>	-0.34	
	<i>For &gt;250 To 500, Deduct</i>	-0.49	
	<i>For &gt;500 To 1,000, Deduct</i>	-0.75	
	<i>For &gt;1,000, Deduct</i>	-1.01	
	<i>For 316 Stainless Steel, Add</i>	4.83	
	<i>For Aluminum, Add</i>	0.27	
	<i>For Galvanized Steel, Add</i>	0.94	
	<i>For 304 Stainless Steel, Add</i>	4.30	
05 12 23 00-0555	LF C3 x 4.1 - 3" Wide Channel .....	9.98	4.82
	<i>For &gt;100 To 250, Deduct</i>	-0.48	
	<i>For &gt;250 To 500, Deduct</i>	-0.73	
	<i>For &gt;500 To 1,000, Deduct</i>	-1.14	
	<i>For &gt;1,000, Deduct</i>	-1.55	
	<i>For 316 Stainless Steel, Add</i>	11.36	
	<i>For Aluminum, Add</i>	0.64	
	<i>For Galvanized Steel, Add</i>	2.20	
	<i>For 304 Stainless Steel, Add</i>	10.12	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0556 LF C3 x 5 - 3" Wide Channel .....	12.18	5.88
For >100 To 250, Deduct	-0.59	
For >250 To 500, Deduct	-0.89	
For >500 To 1,000, Deduct	-1.39	
For >1,000, Deduct	-1.89	
For 316 Stainless Steel, Add	13.86	
For Aluminum, Add	0.78	
For Galvanized Steel, Add	2.68	
For 304 Stainless Steel, Add	12.34	
05 12 23 00-0557 LF C3 x 6 - 3" Wide Channel .....	14.60	7.06
For >100 To 250, Deduct	-0.71	
For >250 To 500, Deduct	-1.07	
For >500 To 1,000, Deduct	-1.67	
For >1,000, Deduct	-2.27	
For 316 Stainless Steel, Add	16.61	
For Aluminum, Add	0.93	
For Galvanized Steel, Add	3.22	
For 304 Stainless Steel, Add	14.79	
05 12 23 00-0558 LF C4 x 5.4 - 4" Wide Channel .....	12.39	5.79
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-0.89	
For >500 To 1,000, Deduct	-1.39	
For >1,000, Deduct	-1.89	
For 316 Stainless Steel, Add	14.94	
For Aluminum, Add	0.84	
For Galvanized Steel, Add	2.90	
For 304 Stainless Steel, Add	13.31	
05 12 23 00-0559 LF C4 x 7.25 - 4" Wide Channel .....	16.63	7.77
For >100 To 250, Deduct	-0.78	
For >250 To 500, Deduct	-1.19	
For >500 To 1,000, Deduct	-1.87	
For >1,000, Deduct	-2.54	
For 316 Stainless Steel, Add	20.06	
For Aluminum, Add	1.13	
For Galvanized Steel, Add	3.89	
For 304 Stainless Steel, Add	17.87	
05 12 23 00-0560 LF C5 x 6.7 - 5" Wide Channel .....	14.81	6.74
For >100 To 250, Deduct	-0.68	
For >250 To 500, Deduct	-1.05	
For >500 To 1,000, Deduct	-1.64	
For >1,000, Deduct	-2.24	
For 316 Stainless Steel, Add	18.56	
For Aluminum, Add	1.04	
For Galvanized Steel, Add	3.60	
For 304 Stainless Steel, Add	16.53	
05 12 23 00-0561 LF C5 x 9 - 5" Wide Channel .....	19.88	9.07
For >100 To 250, Deduct	-0.91	
For >250 To 500, Deduct	-1.40	
For >500 To 1,000, Deduct	-2.20	
For >1,000, Deduct	-3.00	
For 316 Stainless Steel, Add	24.93	
For Aluminum, Add	1.40	
For Galvanized Steel, Add	4.83	
For 304 Stainless Steel, Add	22.20	
05 12 23 00-0562 LF C6 x 8.2 - 6" Wide Channel .....	17.90	8.10
For >100 To 250, Deduct	-0.81	
For >250 To 500, Deduct	-1.26	
For >500 To 1,000, Deduct	-1.98	
For >1,000, Deduct	-2.69	
For 316 Stainless Steel, Add	22.72	
For Aluminum, Add	1.28	
For Galvanized Steel, Add	4.40	
For 304 Stainless Steel, Add	20.24	
05 12 23 00-0563 LF C6 x 10.5 - 6" Wide Channel .....	22.92	10.38
For >100 To 250, Deduct	-1.04	
For >250 To 500, Deduct	-1.61	
For >500 To 1,000, Deduct	-2.53	
For >1,000, Deduct	-3.45	
For 316 Stainless Steel, Add	29.09	
For Aluminum, Add	1.64	
For Galvanized Steel, Add	5.64	
For 304 Stainless Steel, Add	25.91	
05 12 23 00-0564 LF C6 x 13 - 6" Wide Channel .....	28.38	12.84
For >100 To 250, Deduct	-1.28	
For >250 To 500, Deduct	-1.99	
For >500 To 1,000, Deduct	-3.13	
For >1,000, Deduct	-4.27	
For 316 Stainless Steel, Add	36.00	
For Aluminum, Add	2.03	
For Galvanized Steel, Add	6.98	
For 304 Stainless Steel, Add	32.06	

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0565 LF C7 x 9.8 - 7" Wide Channel.....	21.34	9.64
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.50	
For >500 To 1,000, Deduct	-2.35	
For >1,000, Deduct	-3.21	
For 316 Stainless Steel, Add	27.14	
For Aluminum, Add	1.53	
For Galvanized Steel, Add	5.26	
For 304 Stainless Steel, Add	24.17	
05 12 23 00-0566 LF C7 x 12.25 - 7" Wide Channel.....	26.67	12.06
For >100 To 250, Deduct	-1.21	
For >250 To 500, Deduct	-1.87	
For >500 To 1,000, Deduct	-2.94	
For >1,000, Deduct	-4.01	
For 316 Stainless Steel, Add	33.92	
For Aluminum, Add	1.91	
For Galvanized Steel, Add	6.57	
For 304 Stainless Steel, Add	30.21	
05 12 23 00-0567 LF C7 x 14.75 - 7" Wide Channel.....	32.13	14.51
For >100 To 250, Deduct	-1.45	
For >250 To 500, Deduct	-2.26	
For >500 To 1,000, Deduct	-3.54	
For >1,000, Deduct	-4.83	
For 316 Stainless Steel, Add	40.83	
For Aluminum, Add	2.30	
For Galvanized Steel, Add	7.91	
For 304 Stainless Steel, Add	36.37	
05 12 23 00-0568 LF C8 x 11.5 - 8" Wide Channel.....	24.10	10.61
For >100 To 250, Deduct	-1.06	
For >250 To 500, Deduct	-1.66	
For >500 To 1,000, Deduct	-2.62	
For >1,000, Deduct	-3.58	
For 316 Stainless Steel, Add	31.84	
For Aluminum, Add	1.79	
For Galvanized Steel, Add	6.17	
For 304 Stainless Steel, Add	28.36	
05 12 23 00-0569 LF C8 x 13.75 - 8" Wide Channel.....	28.82	12.69
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-1.99	
For >500 To 1,000, Deduct	-3.13	
For >1,000, Deduct	-4.28	
For 316 Stainless Steel, Add	38.08	
For Aluminum, Add	2.14	
For Galvanized Steel, Add	7.38	
For 304 Stainless Steel, Add	33.92	
05 12 23 00-0570 LF C8 x 18.75 - 8" Wide Channel.....	39.29	17.30
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.71	
For >500 To 1,000, Deduct	-4.27	
For >1,000, Deduct	-5.83	
For 316 Stainless Steel, Add	51.90	
For Aluminum, Add	2.92	
For Galvanized Steel, Add	10.06	
For 304 Stainless Steel, Add	46.23	
05 12 23 00-0571 LF C9 x 13.4 - 9" Wide Channel.....	28.08	12.37
For >100 To 250, Deduct	-1.24	
For >250 To 500, Deduct	-1.94	
For >500 To 1,000, Deduct	-3.05	
For >1,000, Deduct	-4.17	
For 316 Stainless Steel, Add	37.09	
For Aluminum, Add	2.09	
For Galvanized Steel, Add	7.19	
For 304 Stainless Steel, Add	33.03	
05 12 23 00-0572 LF C9 x 15 - 9" Wide Channel.....	31.43	13.84
For >100 To 250, Deduct	-1.38	
For >250 To 500, Deduct	-2.17	
For >500 To 1,000, Deduct	-3.42	
For >1,000, Deduct	-4.66	
For 316 Stainless Steel, Add	41.54	
For Aluminum, Add	2.34	
For Galvanized Steel, Add	8.05	
For 304 Stainless Steel, Add	36.99	
05 12 23 00-0573 LF C9 x 20 - 9" Wide Channel.....	41.92	18.45
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.89	
For >500 To 1,000, Deduct	-4.56	
For >1,000, Deduct	-6.22	
For 316 Stainless Steel, Add	55.39	
For Aluminum, Add	3.12	
For Galvanized Steel, Add	10.73	
For 304 Stainless Steel, Add	49.33	



			<b>Metals</b>	<b>05</b>
			Structural Metal Framing	05 10
			Structural Steel Framing	05 12

05

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0574	LF		C10 x 15.3 - 10" Wide Channel .....	32.06	14.11
			<i>For &gt;100 To 250, Deduct</i>	-1.41	
			<i>For &gt;250 To 500, Deduct</i>	-2.21	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.49	
			<i>For &gt;1,000, Deduct</i>	-4.76	
			<i>For 316 Stainless Steel, Add</i>	42.37	
			<i>For Aluminum, Add</i>	2.38	
			<i>For Galvanized Steel, Add</i>	8.21	
			<i>For 304 Stainless Steel, Add</i>	37.73	
05 12 23 00-0575	LF		C10 x 20 - 10" Wide Channel .....	41.92	18.45
			<i>For &gt;100 To 250, Deduct</i>	-1.85	
			<i>For &gt;250 To 500, Deduct</i>	-2.89	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.56	
			<i>For &gt;1,000, Deduct</i>	-6.22	
			<i>For 316 Stainless Steel, Add</i>	55.39	
			<i>For Aluminum, Add</i>	3.12	
			<i>For Galvanized Steel, Add</i>	10.73	
			<i>For 304 Stainless Steel, Add</i>	49.33	
05 12 23 00-0576	LF		C10 x 25 - 10" Wide Channel .....	52.39	23.07
			<i>For &gt;100 To 250, Deduct</i>	-2.31	
			<i>For &gt;250 To 500, Deduct</i>	-3.62	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.70	
			<i>For &gt;1,000, Deduct</i>	-7.77	
			<i>For 316 Stainless Steel, Add</i>	69.22	
			<i>For Aluminum, Add</i>	3.89	
			<i>For Galvanized Steel, Add</i>	13.41	
			<i>For 304 Stainless Steel, Add</i>	61.65	
05 12 23 00-0577	LF		C10 x 30 - 10" Wide Channel .....	62.87	27.68
			<i>For &gt;100 To 250, Deduct</i>	-2.77	
			<i>For &gt;250 To 500, Deduct</i>	-4.34	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.83	
			<i>For &gt;1,000, Deduct</i>	-9.33	
			<i>For 316 Stainless Steel, Add</i>	83.07	
			<i>For Aluminum, Add</i>	4.67	
			<i>For Galvanized Steel, Add</i>	16.10	
			<i>For 304 Stainless Steel, Add</i>	73.99	
05 12 23 00-0578	LF		C12 x 20.7 - 12" Wide Channel .....	43.38	19.10
			<i>For &gt;100 To 250, Deduct</i>	-1.91	
			<i>For &gt;250 To 500, Deduct</i>	-2.99	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.72	
			<i>For &gt;1,000, Deduct</i>	-6.44	
			<i>For 316 Stainless Steel, Add</i>	57.31	
			<i>For Aluminum, Add</i>	3.22	
			<i>For Galvanized Steel, Add</i>	11.10	
			<i>For 304 Stainless Steel, Add</i>	51.04	
05 12 23 00-0579	LF		C12 x 25 - 12" Wide Channel .....	52.39	23.07
			<i>For &gt;100 To 250, Deduct</i>	-2.31	
			<i>For &gt;250 To 500, Deduct</i>	-3.62	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.70	
			<i>For &gt;1,000, Deduct</i>	-7.77	
			<i>For 316 Stainless Steel, Add</i>	69.22	
			<i>For Aluminum, Add</i>	3.89	
			<i>For Galvanized Steel, Add</i>	13.41	
			<i>For 304 Stainless Steel, Add</i>	61.65	
05 12 23 00-0580	LF		C12 x 30 - 12" Wide Channel .....	62.87	27.68
			<i>For &gt;100 To 250, Deduct</i>	-2.77	
			<i>For &gt;250 To 500, Deduct</i>	-4.34	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.83	
			<i>For &gt;1,000, Deduct</i>	-9.33	
			<i>For 316 Stainless Steel, Add</i>	83.07	
			<i>For Aluminum, Add</i>	4.67	
			<i>For Galvanized Steel, Add</i>	16.10	
			<i>For 304 Stainless Steel, Add</i>	73.99	
05 12 23 00-0581	LF		C15 x 33.9 - 15" Wide Channel .....	71.04	31.28
			<i>For &gt;100 To 250, Deduct</i>	-3.13	
			<i>For &gt;250 To 500, Deduct</i>	-4.90	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.72	
			<i>For &gt;1,000, Deduct</i>	-10.54	
			<i>For 316 Stainless Steel, Add</i>	93.86	
			<i>For Aluminum, Add</i>	5.28	
			<i>For Galvanized Steel, Add</i>	18.18	
			<i>For 304 Stainless Steel, Add</i>	83.59	
05 12 23 00-0582	LF		C15 x 40 - 15" Wide Channel .....	83.82	36.91
			<i>For &gt;100 To 250, Deduct</i>	-3.69	
			<i>For &gt;250 To 500, Deduct</i>	-5.79	
			<i>For &gt;500 To 1,000, Deduct</i>	-9.11	
			<i>For &gt;1,000, Deduct</i>	-12.44	
			<i>For 316 Stainless Steel, Add</i>	110.75	
			<i>For Aluminum, Add</i>	6.23	
			<i>For Galvanized Steel, Add</i>	21.46	
			<i>For 304 Stainless Steel, Add</i>	98.64	

<b>05</b>	<b>Metals</b>
<b>05 10</b>	<b>Structural Metal Framing</b>
<b>05 12</b>	<b>Structural Steel Framing</b>



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0583	LF C15 x 50 - 15" Wide Channel.....	104.78	46.14
	For >100 To 250, Deduct	-4.61	
	For >250 To 500, Deduct	-7.23	
	For >500 To 1,000, Deduct	-11.39	
	For >1,000, Deduct	-15.55	
	For 316 Stainless Steel, Add	138.43	
	For Aluminum, Add	7.79	
	For Galvanized Steel, Add	26.82	
	For 304 Stainless Steel, Add	123.29	
<b>05 12 23 00-0584</b>	<b>Miscellaneous Channels - MC <small>(05 12 23 00-0438)</small></b>		
05 12 23 00-0585	LF MC6 x 12 - 6" Wide Channel.....	26.19	11.86
	For >100 To 250, Deduct	-1.19	
	For >250 To 500, Deduct	-1.84	
	For >500 To 1,000, Deduct	-2.89	
	For >1,000, Deduct	-3.94	
	For 316 Stainless Steel, Add	33.22	
	For Aluminum, Add	1.87	
	For Galvanized Steel, Add	6.44	
	For 304 Stainless Steel, Add	29.58	
05 12 23 00-0586	LF MC6 x 15.1 - 6" Wide Channel.....	32.97	14.92
	For >100 To 250, Deduct	-1.49	
	For >250 To 500, Deduct	-2.32	
	For >500 To 1,000, Deduct	-3.64	
	For >1,000, Deduct	-4.96	
	For 316 Stainless Steel, Add	41.82	
	For Aluminum, Add	2.35	
	For Galvanized Steel, Add	8.10	
	For 304 Stainless Steel, Add	37.25	
05 12 23 00-0587	LF MC6 x 15.3 - 6" Wide Channel.....	33.40	15.12
	For >100 To 250, Deduct	-1.51	
	For >250 To 500, Deduct	-2.35	
	For >500 To 1,000, Deduct	-3.69	
	For >1,000, Deduct	-5.03	
	For 316 Stainless Steel, Add	42.37	
	For Aluminum, Add	2.38	
	For Galvanized Steel, Add	8.21	
	For 304 Stainless Steel, Add	37.73	
05 12 23 00-0588	LF MC6 x 16.3 - 6" Wide Channel.....	35.58	16.10
	For >100 To 250, Deduct	-1.61	
	For >250 To 500, Deduct	-2.50	
	For >500 To 1,000, Deduct	-3.93	
	For >1,000, Deduct	-5.35	
	For 316 Stainless Steel, Add	45.12	
	For Aluminum, Add	2.54	
	For Galvanized Steel, Add	8.74	
	For 304 Stainless Steel, Add	40.19	
05 12 23 00-0589	LF MC6 x 18 - 6" Wide Channel.....	39.30	17.79
	For >100 To 250, Deduct	-1.78	
	For >250 To 500, Deduct	-2.76	
	For >500 To 1,000, Deduct	-4.34	
	For >1,000, Deduct	-5.91	
	For 316 Stainless Steel, Add	49.86	
	For Aluminum, Add	2.80	
	For Galvanized Steel, Add	9.66	
	For 304 Stainless Steel, Add	44.40	
05 12 23 00-0590	LF MC7 x 17.6 - 7" Wide Channel.....	38.33	17.33
	For >100 To 250, Deduct	-1.73	
	For >250 To 500, Deduct	-2.69	
	For >500 To 1,000, Deduct	-4.23	
	For >1,000, Deduct	-5.76	
	For 316 Stainless Steel, Add	48.74	
	For Aluminum, Add	2.74	
	For Galvanized Steel, Add	9.44	
	For 304 Stainless Steel, Add	43.41	
05 12 23 00-0591	LF MC7 x 19.1 - 7" Wide Channel.....	41.60	18.80
	For >100 To 250, Deduct	-1.88	
	For >250 To 500, Deduct	-2.92	
	For >500 To 1,000, Deduct	-4.59	
	For >1,000, Deduct	-6.25	
	For 316 Stainless Steel, Add	52.90	
	For Aluminum, Add	2.98	
	For Galvanized Steel, Add	10.25	
	For 304 Stainless Steel, Add	47.11	
05 12 23 00-0592	LF MC7 x 22.7 - 7" Wide Channel.....	49.44	22.34
	For >100 To 250, Deduct	-2.24	
	For >250 To 500, Deduct	-3.47	
	For >500 To 1,000, Deduct	-5.45	
	For >1,000, Deduct	-7.43	
	For 316 Stainless Steel, Add	62.85	
	For Aluminum, Add	3.54	
	For Galvanized Steel, Add	12.18	
	For 304 Stainless Steel, Add	55.97	





<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0593 LF MC8 x 8.5 - 8" Wide Channel .....	17.81	7.85
For >100 To 250, Deduct	-0.78	
For >250 To 500, Deduct	-1.23	
For >500 To 1,000, Deduct	-1.94	
For >1,000, Deduct	-2.64	
For 316 Stainless Steel, Add	23.52	
For Aluminum, Add	1.32	
For Galvanized Steel, Add	4.56	
For 304 Stainless Steel, Add	20.95	
05 12 23 00-0594 LF MC8 x 18.7 - 8" Wide Channel .....	39.19	17.25
For >100 To 250, Deduct	-1.73	
For >250 To 500, Deduct	-2.71	
For >500 To 1,000, Deduct	-4.26	
For >1,000, Deduct	-5.82	
For 316 Stainless Steel, Add	51.78	
For Aluminum, Add	2.91	
For Galvanized Steel, Add	10.03	
For 304 Stainless Steel, Add	46.11	
05 12 23 00-0595 LF MC8 x 20 - 8" Wide Channel .....	41.92	18.45
For >100 To 250, Deduct	-1.85	
For >250 To 500, Deduct	-2.89	
For >500 To 1,000, Deduct	-4.56	
For >1,000, Deduct	-6.22	
For 316 Stainless Steel, Add	55.39	
For Aluminum, Add	3.12	
For Galvanized Steel, Add	10.73	
For 304 Stainless Steel, Add	49.33	
05 12 23 00-0596 LF MC8 x 21.4 - 8" Wide Channel .....	44.85	19.75
For >100 To 250, Deduct	-1.97	
For >250 To 500, Deduct	-3.10	
For >500 To 1,000, Deduct	-4.88	
For >1,000, Deduct	-6.66	
For 316 Stainless Steel, Add	59.26	
For Aluminum, Add	3.33	
For Galvanized Steel, Add	11.48	
For 304 Stainless Steel, Add	52.78	
05 12 23 00-0597 LF MC8 x 22.8 - 8" Wide Channel .....	47.78	21.05
For >100 To 250, Deduct	-2.10	
For >250 To 500, Deduct	-3.30	
For >500 To 1,000, Deduct	-5.19	
For >1,000, Deduct	-7.09	
For 316 Stainless Steel, Add	63.14	
For Aluminum, Add	3.55	
For Galvanized Steel, Add	12.23	
For 304 Stainless Steel, Add	56.23	
05 12 23 00-0598 LF MC9 x 23.9 - 9" Wide Channel .....	50.08	22.05
For >100 To 250, Deduct	-2.21	
For >250 To 500, Deduct	-3.46	
For >500 To 1,000, Deduct	-5.44	
For >1,000, Deduct	-7.43	
For 316 Stainless Steel, Add	66.18	
For Aluminum, Add	3.72	
For Galvanized Steel, Add	12.82	
For 304 Stainless Steel, Add	58.94	
05 12 23 00-0599 LF MC9 x 25.4 - 9" Wide Channel .....	53.23	23.43
For >100 To 250, Deduct	-2.34	
For >250 To 500, Deduct	-3.67	
For >500 To 1,000, Deduct	-5.79	
For >1,000, Deduct	-7.90	
For 316 Stainless Steel, Add	70.34	
For Aluminum, Add	3.96	
For Galvanized Steel, Add	13.63	
For 304 Stainless Steel, Add	62.64	
05 12 23 00-0600 LF MC10 x 6.5 - 10" Wide Channel.....	13.62	6.00
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-0.94	
For >500 To 1,000, Deduct	-1.48	
For >1,000, Deduct	-2.02	
For 316 Stainless Steel, Add	17.98	
For Aluminum, Add	1.01	
For Galvanized Steel, Add	3.48	
For 304 Stainless Steel, Add	16.02	
05 12 23 00-0601 LF MC10 x 8.4 - 10" Wide Channel.....	17.61	7.75
For >100 To 250, Deduct	-0.78	
For >250 To 500, Deduct	-1.22	
For >500 To 1,000, Deduct	-1.91	
For >1,000, Deduct	-2.61	
For 316 Stainless Steel, Add	23.26	
For Aluminum, Add	1.31	
For Galvanized Steel, Add	4.51	
For 304 Stainless Steel, Add	20.72	

<b>05</b>	<b>Metals</b>
<b>05 10</b>	<b>Structural Metal Framing</b>
<b>05 12</b>	<b>Structural Steel Framing</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0602	LF		MC10 x 21.9 - 10" Wide Channel.....	45.89	20.21
			<i>For &gt;100 To 250, Deduct</i>	-2.02	
			<i>For &gt;250 To 500, Deduct</i>	-3.17	
			<i>For &gt;500 To 1,000, Deduct</i>	-4.99	
			<i>For &gt;1,000, Deduct</i>	-6.81	
			<i>For 316 Stainless Steel, Add</i>	60.64	
			<i>For Aluminum, Add</i>	3.41	
			<i>For Galvanized Steel, Add</i>	11.75	
			<i>For 304 Stainless Steel, Add</i>	54.01	
05 12 23 00-0603	LF		MC10 x 24.9 - 10" Wide Channel.....	52.19	22.98
			<i>For &gt;100 To 250, Deduct</i>	-2.30	
			<i>For &gt;250 To 500, Deduct</i>	-3.60	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.67	
			<i>For &gt;1,000, Deduct</i>	-7.74	
			<i>For 316 Stainless Steel, Add</i>	68.96	
			<i>For Aluminum, Add</i>	3.88	
			<i>For Galvanized Steel, Add</i>	13.36	
			<i>For 304 Stainless Steel, Add</i>	61.42	
05 12 23 00-0604	LF		MC10 x 25.3 - 10" Wide Channel.....	53.02	23.35
			<i>For &gt;100 To 250, Deduct</i>	-2.33	
			<i>For &gt;250 To 500, Deduct</i>	-3.66	
			<i>For &gt;500 To 1,000, Deduct</i>	-5.76	
			<i>For &gt;1,000, Deduct</i>	-7.87	
			<i>For 316 Stainless Steel, Add</i>	70.05	
			<i>For Aluminum, Add</i>	3.94	
			<i>For Galvanized Steel, Add</i>	13.57	
			<i>For 304 Stainless Steel, Add</i>	62.39	
05 12 23 00-0605	LF		MC10 x 28.3 - 10" Wide Channel.....	59.32	26.11
			<i>For &gt;100 To 250, Deduct</i>	-2.61	
			<i>For &gt;250 To 500, Deduct</i>	-4.10	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.45	
			<i>For &gt;1,000, Deduct</i>	-8.80	
			<i>For 316 Stainless Steel, Add</i>	78.37	
			<i>For Aluminum, Add</i>	4.41	
			<i>For Galvanized Steel, Add</i>	15.18	
			<i>For 304 Stainless Steel, Add</i>	69.80	
05 12 23 00-0606	LF		MC10 x 28.5 - 10" Wide Channel.....	59.73	26.30
			<i>For &gt;100 To 250, Deduct</i>	-2.63	
			<i>For &gt;250 To 500, Deduct</i>	-4.12	
			<i>For &gt;500 To 1,000, Deduct</i>	-6.49	
			<i>For &gt;1,000, Deduct</i>	-8.86	
			<i>For 316 Stainless Steel, Add</i>	78.91	
			<i>For Aluminum, Add</i>	4.44	
			<i>For Galvanized Steel, Add</i>	15.29	
			<i>For 304 Stainless Steel, Add</i>	70.28	
05 12 23 00-0607	LF		MC10 x 33.6 - 10" Wide Channel.....	70.41	31.01
			<i>For &gt;100 To 250, Deduct</i>	-3.10	
			<i>For &gt;250 To 500, Deduct</i>	-4.86	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.65	
			<i>For &gt;1,000, Deduct</i>	-10.45	
			<i>For 316 Stainless Steel, Add</i>	93.02	
			<i>For Aluminum, Add</i>	5.23	
			<i>For Galvanized Steel, Add</i>	18.02	
			<i>For 304 Stainless Steel, Add</i>	82.85	
05 12 23 00-0608	LF		MC10 x 41.1 - 10" Wide Channel.....	86.13	37.93
			<i>For &gt;100 To 250, Deduct</i>	-3.79	
			<i>For &gt;250 To 500, Deduct</i>	-5.95	
			<i>For &gt;500 To 1,000, Deduct</i>	-9.36	
			<i>For &gt;1,000, Deduct</i>	-12.78	
			<i>For 316 Stainless Steel, Add</i>	113.79	
			<i>For Aluminum, Add</i>	6.40	
			<i>For Galvanized Steel, Add</i>	22.05	
			<i>For 304 Stainless Steel, Add</i>	101.35	
05 12 23 00-0609	LF		MC12 x 30.9 - 12" Wide Channel.....	64.77	28.51
			<i>For &gt;100 To 250, Deduct</i>	-2.85	
			<i>For &gt;250 To 500, Deduct</i>	-4.47	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.04	
			<i>For &gt;1,000, Deduct</i>	-9.61	
			<i>For 316 Stainless Steel, Add</i>	85.57	
			<i>For Aluminum, Add</i>	4.81	
			<i>For Galvanized Steel, Add</i>	16.58	
			<i>For 304 Stainless Steel, Add</i>	76.21	
05 12 23 00-0610	LF		MC12 x 32.9 - 12" Wide Channel.....	68.95	30.36
			<i>For &gt;100 To 250, Deduct</i>	-3.04	
			<i>For &gt;250 To 500, Deduct</i>	-4.76	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.50	
			<i>For &gt;1,000, Deduct</i>	-10.23	
			<i>For 316 Stainless Steel, Add</i>	91.10	
			<i>For Aluminum, Add</i>	5.12	
			<i>For Galvanized Steel, Add</i>	17.65	
			<i>For 304 Stainless Steel, Add</i>	81.14	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0611	LF		MC12 x 35 - 12" Wide Channel .....	73.35	32.29
			<i>For &gt;100 To 250, Deduct</i>	-3.23	
			<i>For &gt;250 To 500, Deduct</i>	-5.06	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.97	
			<i>For &gt;1,000, Deduct</i>	-10.89	
			<i>For 316 Stainless Steel, Add</i>	96.90	
			<i>For Aluminum, Add</i>	5.45	
			<i>For Galvanized Steel, Add</i>	18.77	
			<i>For 304 Stainless Steel, Add</i>	86.30	
05 12 23 00-0612	LF		MC12 x 37 - 12" Wide Channel .....	77.55	34.15
			<i>For &gt;100 To 250, Deduct</i>	-3.41	
			<i>For &gt;250 To 500, Deduct</i>	-5.35	
			<i>For &gt;500 To 1,000, Deduct</i>	-8.43	
			<i>For &gt;1,000, Deduct</i>	-11.51	
			<i>For 316 Stainless Steel, Add</i>	102.46	
			<i>For Aluminum, Add</i>	5.76	
			<i>For Galvanized Steel, Add</i>	19.85	
			<i>For 304 Stainless Steel, Add</i>	91.26	
05 12 23 00-0613	LF		MC12 x 40 - 12" Wide Channel .....	83.82	36.91
			<i>For &gt;100 To 250, Deduct</i>	-3.69	
			<i>For &gt;250 To 500, Deduct</i>	-5.79	
			<i>For &gt;500 To 1,000, Deduct</i>	-9.11	
			<i>For &gt;1,000, Deduct</i>	-12.44	
			<i>For 316 Stainless Steel, Add</i>	110.75	
			<i>For Aluminum, Add</i>	6.23	
			<i>For Galvanized Steel, Add</i>	21.46	
			<i>For 304 Stainless Steel, Add</i>	98.64	
05 12 23 00-0614	LF		MC12 x 45 - 12" Wide Channel .....	94.31	41.53
			<i>For &gt;100 To 250, Deduct</i>	-4.15	
			<i>For &gt;250 To 500, Deduct</i>	-6.51	
			<i>For &gt;500 To 1,000, Deduct</i>	-10.25	
			<i>For &gt;1,000, Deduct</i>	-13.99	
			<i>For 316 Stainless Steel, Add</i>	124.61	
			<i>For Aluminum, Add</i>	7.01	
			<i>For Galvanized Steel, Add</i>	24.14	
			<i>For 304 Stainless Steel, Add</i>	110.98	
05 12 23 00-0615	LF		MC12 x 50 - 12" Wide Channel .....	104.78	46.14
			<i>For &gt;100 To 250, Deduct</i>	-4.61	
			<i>For &gt;250 To 500, Deduct</i>	-7.23	
			<i>For &gt;500 To 1,000, Deduct</i>	-11.39	
			<i>For &gt;1,000, Deduct</i>	-15.55	
			<i>For 316 Stainless Steel, Add</i>	138.43	
			<i>For Aluminum, Add</i>	7.79	
			<i>For Galvanized Steel, Add</i>	26.82	
			<i>For 304 Stainless Steel, Add</i>	123.29	
05 12 23 00-0616	LF		MC13 x 31.8 - 13" Wide Channel.....	66.65	29.34
			<i>For &gt;100 To 250, Deduct</i>	-2.93	
			<i>For &gt;250 To 500, Deduct</i>	-4.60	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.25	
			<i>For &gt;1,000, Deduct</i>	-9.89	
			<i>For 316 Stainless Steel, Add</i>	88.06	
			<i>For Aluminum, Add</i>	4.95	
			<i>For Galvanized Steel, Add</i>	17.06	
			<i>For 304 Stainless Steel, Add</i>	78.43	
05 12 23 00-0617	LF		MC13 x 35 - 13" Wide Channel .....	73.35	32.29
			<i>For &gt;100 To 250, Deduct</i>	-3.23	
			<i>For &gt;250 To 500, Deduct</i>	-5.06	
			<i>For &gt;500 To 1,000, Deduct</i>	-7.97	
			<i>For &gt;1,000, Deduct</i>	-10.89	
			<i>For 316 Stainless Steel, Add</i>	96.90	
			<i>For Aluminum, Add</i>	5.45	
			<i>For Galvanized Steel, Add</i>	18.77	
			<i>For 304 Stainless Steel, Add</i>	86.30	
05 12 23 00-0618	LF		MC13 x 40 - 13" Wide Channel .....	83.82	36.91
			<i>For &gt;100 To 250, Deduct</i>	-3.69	
			<i>For &gt;250 To 500, Deduct</i>	-5.79	
			<i>For &gt;500 To 1,000, Deduct</i>	-9.11	
			<i>For &gt;1,000, Deduct</i>	-12.44	
			<i>For 316 Stainless Steel, Add</i>	110.75	
			<i>For Aluminum, Add</i>	6.23	
			<i>For Galvanized Steel, Add</i>	21.46	
			<i>For 304 Stainless Steel, Add</i>	98.64	
05 12 23 00-0619	LF		MC13 x 50 - 13" Wide Channel .....	104.78	46.14
			<i>For &gt;100 To 250, Deduct</i>	-4.61	
			<i>For &gt;250 To 500, Deduct</i>	-7.23	
			<i>For &gt;500 To 1,000, Deduct</i>	-11.39	
			<i>For &gt;1,000, Deduct</i>	-15.55	
			<i>For 316 Stainless Steel, Add</i>	138.43	
			<i>For Aluminum, Add</i>	7.79	
			<i>For Galvanized Steel, Add</i>	26.82	
			<i>For 304 Stainless Steel, Add</i>	123.29	

05	<b>05 Metals</b>
	<b>05 10 Structural Metal Framing</b>
	<b>05 12 Structural Steel Framing</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0620	LF		MC18 x 42.7 - 18" Wide Channel.....	89.49	39.41
			For >100 To 250, Deduct	-3.94	
			For >250 To 500, Deduct	-6.18	
			For >500 To 1,000, Deduct	-9.73	
			For >1,000, Deduct	-13.28	
			For 316 Stainless Steel, Add	118.24	
			For Aluminum, Add	6.65	
			For Galvanized Steel, Add	22.91	
			For 304 Stainless Steel, Add	105.31	
05 12 23 00-0621	LF		MC18 x 45.8 - 18" Wide Channel.....	95.98	42.26
			For >100 To 250, Deduct	-4.23	
			For >250 To 500, Deduct	-6.63	
			For >500 To 1,000, Deduct	-10.43	
			For >1,000, Deduct	-14.24	
			For 316 Stainless Steel, Add	126.82	
			For Aluminum, Add	7.13	
			For Galvanized Steel, Add	24.57	
			For 304 Stainless Steel, Add	112.95	
05 12 23 00-0622	LF		MC18 x 51.9 - 18" Wide Channel.....	108.77	47.89
			For >100 To 250, Deduct	-4.79	
			For >250 To 500, Deduct	-7.51	
			For >500 To 1,000, Deduct	-11.82	
			For >1,000, Deduct	-16.14	
			For 316 Stainless Steel, Add	143.71	
			For Aluminum, Add	8.08	
			For Galvanized Steel, Add	27.84	
			For 304 Stainless Steel, Add	127.99	
05 12 23 00-0623	LF		MC18 x 58 - 18" Wide Channel.....	121.55	53.52
			For >100 To 250, Deduct	-5.35	
			For >250 To 500, Deduct	-8.39	
			For >500 To 1,000, Deduct	-13.21	
			For >1,000, Deduct	-18.04	
			For 316 Stainless Steel, Add	160.61	
			For Aluminum, Add	9.03	
			For Galvanized Steel, Add	31.12	
			For 304 Stainless Steel, Add	143.04	
<b>05 12 23 00-0624 Structural Bar Tees (05 12 23 00-0438)</b>					
05 12 23 00-0625	LF		3/4" x 3/4" x 1/8" Structural Bar Tee.....	3.97	2.46
			For >100 To 250, Deduct	-0.25	
			For >250 To 500, Deduct	-0.34	
			For >500 To 1,000, Deduct	-0.53	
			For >1,000, Deduct	-0.71	
			For 316 Stainless Steel, Add	2.24	
			For Aluminum, Add	0.13	
			For Galvanized Steel, Add	0.43	
			For 304 Stainless Steel, Add	2.00	
05 12 23 00-0626	LF		1" x 1" x 1/8" Structural Bar Tee.....	4.81	2.89
			For >100 To 250, Deduct	-0.29	
			For >250 To 500, Deduct	-0.41	
			For >500 To 1,000, Deduct	-0.63	
			For >1,000, Deduct	-0.84	
			For 316 Stainless Steel, Add	3.07	
			For Aluminum, Add	0.17	
			For Galvanized Steel, Add	0.60	
			For 304 Stainless Steel, Add	2.74	
05 12 23 00-0627	LF		1-1/2" x 1-1/2" x 1/4" Structural Bar Tee.....	7.20	3.34
			For >100 To 250, Deduct	-0.33	
			For >250 To 500, Deduct	-0.51	
			For >500 To 1,000, Deduct	-0.81	
			For >1,000, Deduct	-1.10	
			For 316 Stainless Steel, Add	8.77	
			For Aluminum, Add	0.49	
			For Galvanized Steel, Add	1.70	
			For 304 Stainless Steel, Add	7.81	
05 12 23 00-0628	LF		2" x 2" x 1/4" Structural Bar Tee.....	9.92	4.37
			For >100 To 250, Deduct	-0.44	
			For >250 To 500, Deduct	-0.69	
			For >500 To 1,000, Deduct	-1.08	
			For >1,000, Deduct	-1.47	
			For 316 Stainless Steel, Add	13.09	
			For Aluminum, Add	0.74	
			For Galvanized Steel, Add	2.54	
			For 304 Stainless Steel, Add	11.66	
05 12 23 00-0629	LF		2-1/2" x 2-1/2" x 3/8" Structural Bar Tee.....	14.38	5.27
			For >100 To 250, Deduct	-0.53	
			For >250 To 500, Deduct	-0.89	
			For >500 To 1,000, Deduct	-1.42	
			For >1,000, Deduct	-1.96	
			For 316 Stainless Steel, Add	23.49	
			For Aluminum, Add	1.32	
			For Galvanized Steel, Add	4.55	
			For 304 Stainless Steel, Add	20.92	



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0630 LF 3" x 3" x 3/8" Structural Bar Tee .....	17.82	6.75
For >100 To 250, Deduct	-0.68	
For >250 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-1.79	
For >1,000, Deduct	-2.46	
For 316 Stainless Steel, Add	28.19	
For Aluminum, Add	1.59	
For Galvanized Steel, Add	5.46	
For 304 Stainless Steel, Add	25.11	
<b>05 12 23 00-0631 Structural Zees (05 12 23 00-0438)</b>		
05 12 23 00-0632 LF 1-1/4" x 1-3/4" x 1-3/4" x 3/16" Structural Zee .....	8.55	3.34
For >100 To 250, Deduct	-0.33	
For >250 To 500, Deduct	-0.55	
For >500 To 1,000, Deduct	-0.87	
For >1,000, Deduct	-1.20	
For 316 Stainless Steel, Add	13.09	
For Aluminum, Add	0.74	
For Galvanized Steel, Add	2.54	
For 304 Stainless Steel, Add	11.66	
05 12 23 00-0633 LF 2-11/16" x 3" x 2-11/16" x 1/4" Structural Zee.....	15.10	3.99
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.78	
For >500 To 1,000, Deduct	-1.29	
For >1,000, Deduct	-1.80	
For 316 Stainless Steel, Add	31.33	
For Aluminum, Add	1.76	
For Galvanized Steel, Add	6.07	
For 304 Stainless Steel, Add	27.90	
05 12 23 00-0634 LF 3-1/16" x 4" x 3-1/16" x 1/4" Structural Zee.....	17.98	4.50
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.90	
For >500 To 1,000, Deduct	-1.50	
For >1,000, Deduct	-2.10	
For 316 Stainless Steel, Add	38.34	
For Aluminum, Add	2.16	
For Galvanized Steel, Add	7.43	
For 304 Stainless Steel, Add	34.14	
05 12 23 00-0635 LF 3-1/4" x 5" x 3-1/4" x 5/16" Structural Zee.....	23.80	5.14
For >100 To 250, Deduct	-0.51	
For >250 To 500, Deduct	-1.11	
For >500 To 1,000, Deduct	-1.88	
For >1,000, Deduct	-2.64	
For 316 Stainless Steel, Add	54.24	
For Aluminum, Add	3.05	
For Galvanized Steel, Add	10.51	
For 304 Stainless Steel, Add	48.31	
05 12 23 00-0636 LF 3-1/2" x 6" x 3-1/2" x 3/8" Structural Zee.....	30.40	5.60
For >100 To 250, Deduct	-0.56	
For >250 To 500, Deduct	-1.32	
For >500 To 1,000, Deduct	-2.27	
For >1,000, Deduct	-3.21	
For 316 Stainless Steel, Add	73.41	
For Aluminum, Add	4.13	
For Galvanized Steel, Add	14.22	
For 304 Stainless Steel, Add	65.38	
<b>05 12 23 00-0637 Junior I-Beams (05 12 23 00-0438)</b>		
05 12 23 00-0638 LF 3" Junior I-Beam, 2.9 LB/LF.....	11.82	4.82
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.78	
For >500 To 1,000, Deduct	-1.23	
For >1,000, Deduct	-1.69	
For 316 Stainless Steel, Add	17.25	
For Aluminum, Add	0.97	
For Galvanized Steel, Add	3.34	
For 304 Stainless Steel, Add	15.36	
05 12 23 00-0639 LF 4" Junior I-Beam, 3.2 LB/LF.....	12.99	5.27
For >100 To 250, Deduct	-0.53	
For >250 To 500, Deduct	-0.85	
For >500 To 1,000, Deduct	-1.35	
For >1,000, Deduct	-1.85	
For 316 Stainless Steel, Add	19.04	
For Aluminum, Add	1.07	
For Galvanized Steel, Add	3.69	
For 304 Stainless Steel, Add	16.96	

<b>05</b>	<b>Metals</b>
<b>05 10</b>	<b>Structural Metal Framing</b>
<b>05 12</b>	<b>Structural Steel Framing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0640 LF 5" Junior I-Beam, 3.8 LB/LF .....	14.79	5.79
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-0.95	
For >500 To 1,000, Deduct	-1.51	
For >1,000, Deduct	-2.07	
For 316 Stainless Steel, Add	22.62	
For Aluminum, Add	1.27	
For Galvanized Steel, Add	4.38	
For 304 Stainless Steel, Add	20.15	
05 12 23 00-0641 LF 6" Junior I-Beam, 4.4 LB/LF .....	16.58	6.30
For >100 To 250, Deduct	-0.63	
For >250 To 500, Deduct	-1.04	
For >500 To 1,000, Deduct	-1.67	
For >1,000, Deduct	-2.29	
For 316 Stainless Steel, Add	26.18	
For Aluminum, Add	1.47	
For Galvanized Steel, Add	5.07	
For 304 Stainless Steel, Add	23.31	
05 12 23 00-0642 LF 7" Junior I-Beam, 5.5 LB/LF .....	19.23	6.75
For >100 To 250, Deduct	-0.68	
For >250 To 500, Deduct	-1.16	
For >500 To 1,000, Deduct	-1.86	
For >1,000, Deduct	-2.57	
For 316 Stainless Steel, Add	32.74	
For Aluminum, Add	1.84	
For Galvanized Steel, Add	6.34	
For 304 Stainless Steel, Add	29.16	
05 12 23 00-0643 LF 8" Junior I-Beam, 6.5 LB/LF .....	21.69	7.21
For >100 To 250, Deduct	-0.72	
For >250 To 500, Deduct	-1.26	
For >500 To 1,000, Deduct	-2.04	
For >1,000, Deduct	-2.83	
For 316 Stainless Steel, Add	38.69	
For Aluminum, Add	2.18	
For Galvanized Steel, Add	7.50	
For 304 Stainless Steel, Add	34.46	
05 12 23 00-0644 LF 10" Junior I-Beam, 9 LB/LF .....	27.71	8.23
For >100 To 250, Deduct	-0.82	
For >250 To 500, Deduct	-1.52	
For >500 To 1,000, Deduct	-2.48	
For >1,000, Deduct	-3.45	
For 316 Stainless Steel, Add	53.54	
For Aluminum, Add	3.01	
For Galvanized Steel, Add	10.37	
For 304 Stainless Steel, Add	47.68	
05 12 23 00-0645 LF 12" Junior I-Beam, 11.8 LB/LF .....	34.97	9.77
For >100 To 250, Deduct	-0.98	
For >250 To 500, Deduct	-1.85	
For >500 To 1,000, Deduct	-3.05	
For >1,000, Deduct	-4.25	
For 316 Stainless Steel, Add	70.21	
For Aluminum, Add	3.95	
For Galvanized Steel, Add	13.60	
For 304 Stainless Steel, Add	62.53	
<b>05 12 23 00-0646 Round Stock <small>(05 12 23 00-0438)</small></b>		
05 12 23 00-0647 LF 1/4" Carbon Steel Rounds, ASTM A108 .....	1.57	
For 316 Stainless Steel, Add	2.27	
For Aluminum, Add	0.13	
For Galvanized Steel, Add	0.44	
For 304 Stainless Steel, Add	2.02	
05 12 23 00-0648 LF 3/8" Carbon Steel Rounds, ASTM A108 .....	2.37	
For 316 Stainless Steel, Add	4.45	
For Aluminum, Add	0.25	
For Galvanized Steel, Add	0.86	
For 304 Stainless Steel, Add	3.96	
05 12 23 00-0649 LF 1/2" Carbon Steel Rounds, ASTM A108 .....	3.19	
For 316 Stainless Steel, Add	6.78	
For Aluminum, Add	0.38	
For Galvanized Steel, Add	1.31	
For 304 Stainless Steel, Add	6.04	
05 12 23 00-0650 LF 5/8" Carbon Steel Rounds, ASTM A108 .....	4.72	
For 316 Stainless Steel, Add	11.30	
For Aluminum, Add	0.64	
For Galvanized Steel, Add	2.19	
For 304 Stainless Steel, Add	10.06	
05 12 23 00-0651 LF 3/4" Carbon Steel Rounds, ASTM A108 .....	5.62	
For 316 Stainless Steel, Add	13.41	
For Aluminum, Add	0.75	
For Galvanized Steel, Add	2.60	
For 304 Stainless Steel, Add	11.94	
05 12 23 00-0652 LF 7/8" Carbon Steel Rounds, ASTM A108 .....	6.54	
For 316 Stainless Steel, Add	15.65	
For Aluminum, Add	0.88	
For Galvanized Steel, Add	3.03	
For 304 Stainless Steel, Add	13.94	



	Metals	05
	Structural Metal Framing	05 10
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MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0653	LF 1" Carbon Steel Rounds, ASTM A108.....	9.41	
	For 316 Stainless Steel, Add	23.87	
	For Aluminum, Add	1.34	
	For Galvanized Steel, Add	4.63	
	For 304 Stainless Steel, Add	21.26	
05 12 23 00-0654	LF 1-1/8" Carbon Steel Rounds, ASTM A108.....	11.45	
	For 316 Stainless Steel, Add	28.99	
	For Aluminum, Add	1.63	
	For Galvanized Steel, Add	5.62	
	For 304 Stainless Steel, Add	25.82	
05 12 23 00-0655	LF 1-1/4" Carbon Steel Rounds, ASTM A108.....	13.72	
	For 316 Stainless Steel, Add	34.11	
	For Aluminum, Add	1.92	
	For Galvanized Steel, Add	6.61	
	For 304 Stainless Steel, Add	30.38	
05 12 23 00-0656	LF 1-3/8" Carbon Steel Rounds, ASTM A108.....	16.58	
	For 316 Stainless Steel, Add	41.63	
	For Aluminum, Add	2.34	
	For Galvanized Steel, Add	8.07	
	For 304 Stainless Steel, Add	37.08	
05 12 23 00-0657	LF 1-1/2" Carbon Steel Rounds, ASTM A108.....	18.57	
	For 316 Stainless Steel, Add	45.70	
	For Aluminum, Add	2.57	
	For Galvanized Steel, Add	8.85	
	For 304 Stainless Steel, Add	40.70	
05 12 23 00-0658	LF 1-5/8" Carbon Steel Rounds, ASTM A108.....	21.53	
	For 316 Stainless Steel, Add	51.78	
	For Aluminum, Add	2.91	
	For Galvanized Steel, Add	10.03	
	For 304 Stainless Steel, Add	46.11	
05 12 23 00-0659	LF 1-3/4" Carbon Steel Rounds, ASTM A108.....	25.98	
	For 316 Stainless Steel, Add	60.26	
	For Aluminum, Add	3.39	
	For Galvanized Steel, Add	11.67	
	For 304 Stainless Steel, Add	53.67	
05 12 23 00-0660	LF 1-7/8" Carbon Steel Rounds, ASTM A108.....	31.48	
	For 316 Stainless Steel, Add	70.56	
	For Aluminum, Add	3.97	
	For Galvanized Steel, Add	13.67	
	For 304 Stainless Steel, Add	62.84	
05 12 23 00-0661	LF 2" Carbon Steel Rounds, ASTM A108.....	36.17	
	For 316 Stainless Steel, Add	78.50	
	For Aluminum, Add	4.42	
	For Galvanized Steel, Add	15.21	
	For 304 Stainless Steel, Add	69.91	
05 12 23 00-0662	LF 2-1/8" Carbon Steel Rounds, ASTM A108.....	42.48	
	For 316 Stainless Steel, Add	89.66	
	For Aluminum, Add	5.04	
	For Galvanized Steel, Add	17.37	
	For 304 Stainless Steel, Add	79.86	
05 12 23 00-0663	LF 2-1/4" Carbon Steel Rounds, ASTM A108.....	48.12	
	For 316 Stainless Steel, Add	100.80	
	For Aluminum, Add	5.67	
	For Galvanized Steel, Add	19.53	
	For 304 Stainless Steel, Add	89.78	
05 12 23 00-0664	LF 2-3/8" Carbon Steel Rounds, ASTM A108.....	55.15	
	For 316 Stainless Steel, Add	115.30	
	For Aluminum, Add	6.49	
	For Galvanized Steel, Add	22.34	
	For 304 Stainless Steel, Add	102.69	
05 12 23 00-0665	LF 2-1/2" Carbon Steel Rounds, ASTM A108.....	61.28	
	For 316 Stainless Steel, Add	124.26	
	For Aluminum, Add	6.99	
	For Galvanized Steel, Add	24.07	
	For 304 Stainless Steel, Add	110.67	
05 12 23 00-0666	LF 2-5/8" Carbon Steel Rounds, ASTM A108.....	74.26	
	For 316 Stainless Steel, Add	157.82	
	For Aluminum, Add	8.88	
	For Galvanized Steel, Add	30.58	
	For 304 Stainless Steel, Add	140.56	
05 12 23 00-0667	LF 2-3/4" Carbon Steel Rounds, ASTM A108.....	84.52	
	For 316 Stainless Steel, Add	180.00	
	For Aluminum, Add	10.13	
	For Galvanized Steel, Add	34.88	
	For 304 Stainless Steel, Add	160.31	
05 12 23 00-0668	LF 2-7/8" Carbon Steel Rounds, ASTM A108.....	94.28	
	For 316 Stainless Steel, Add	200.58	
	For Aluminum, Add	11.28	
	For Galvanized Steel, Add	38.86	
	For 304 Stainless Steel, Add	178.64	
05 12 23 00-0669	LF 3" Carbon Steel Rounds, ASTM A108.....	99.48	
	For 316 Stainless Steel, Add	206.59	
	For Aluminum, Add	11.62	
	For Galvanized Steel, Add	40.03	
	For 304 Stainless Steel, Add	184.00	

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0670 LF 3-1/8" Carbon Steel Rounds, ASTM A108.....	104.23	
For 316 Stainless Steel, Add	211.17	
For Aluminum, Add	11.88	
For Galvanized Steel, Add	40.91	
For 304 Stainless Steel, Add	188.07	
05 12 23 00-0671 LF 3-1/4" Carbon Steel Rounds, ASTM A108.....	110.25	
For 316 Stainless Steel, Add	219.78	
For Aluminum, Add	12.36	
For Galvanized Steel, Add	42.58	
For 304 Stainless Steel, Add	195.74	
05 12 23 00-0672 LF 3-1/2" Carbon Steel Rounds, ASTM A108.....	132.88	
For 316 Stainless Steel, Add	278.88	
For Aluminum, Add	15.69	
For Galvanized Steel, Add	54.03	
For 304 Stainless Steel, Add	248.38	
05 12 23 00-0673 LF 3-5/8" Carbon Steel Rounds, ASTM A108.....	147.37	
For 316 Stainless Steel, Add	311.97	
For Aluminum, Add	17.55	
For Galvanized Steel, Add	60.44	
For 304 Stainless Steel, Add	277.85	
05 12 23 00-0674 LF 3-3/4" Carbon Steel Rounds, ASTM A108.....	158.33	
For 316 Stainless Steel, Add	333.73	
For Aluminum, Add	18.77	
For Galvanized Steel, Add	64.66	
For 304 Stainless Steel, Add	297.23	
05 12 23 00-0675 LF 4" Carbon Steel Rounds, ASTM A108.....	176.93	
For 316 Stainless Steel, Add	379.94	
For Aluminum, Add	21.37	
For Galvanized Steel, Add	73.61	
For 304 Stainless Steel, Add	338.38	
<b>05 12 23 00-0676 Square Stock (05 12 23 00-0438)</b>		
05 12 23 00-0677 LF 3/8" Square Bar Stock.....	1.39	
For 316 Stainless Steel, Add	1.31	
For Aluminum, Add	0.07	
For Galvanized Steel, Add	0.25	
For 304 Stainless Steel, Add	1.17	
05 12 23 00-0678 LF 1/2" Square Bar Stock.....	1.80	
For 316 Stainless Steel, Add	2.34	
For Aluminum, Add	0.13	
For Galvanized Steel, Add	0.45	
For 304 Stainless Steel, Add	2.08	
05 12 23 00-0679 LF 5/8" Square Bar Stock.....	2.33	
For 316 Stainless Steel, Add	3.65	
For Aluminum, Add	0.21	
For Galvanized Steel, Add	0.71	
For 304 Stainless Steel, Add	3.25	
05 12 23 00-0680 LF 3/4" Square Bar Stock.....	3.08	
For 316 Stainless Steel, Add	5.28	
For Aluminum, Add	0.30	
For Galvanized Steel, Add	1.02	
For 304 Stainless Steel, Add	4.70	
05 12 23 00-0681 LF 7/8" Square Bar Stock.....	3.95	
For 316 Stainless Steel, Add	7.36	
For Aluminum, Add	0.41	
For Galvanized Steel, Add	1.43	
For 304 Stainless Steel, Add	6.56	
05 12 23 00-0682 LF 1" Square Bar Stock.....	4.89	
For 316 Stainless Steel, Add	9.41	
For Aluminum, Add	0.53	
For Galvanized Steel, Add	1.82	
For 304 Stainless Steel, Add	8.38	
05 12 23 00-0683 LF 1-1/4" Square Bar Stock.....	7.64	
For 316 Stainless Steel, Add	14.66	
For Aluminum, Add	0.82	
For Galvanized Steel, Add	2.84	
For 304 Stainless Steel, Add	13.05	
05 12 23 00-0684 LF 1-1/2" Square Bar Stock.....	10.89	
For 316 Stainless Steel, Add	21.12	
For Aluminum, Add	1.19	
For Galvanized Steel, Add	4.09	
For 304 Stainless Steel, Add	18.81	
05 12 23 00-0685 LF 1-3/4" Square Bar Stock.....	16.33	
For 316 Stainless Steel, Add	29.38	
For Aluminum, Add	1.65	
For Galvanized Steel, Add	5.69	
For 304 Stainless Steel, Add	26.16	
05 12 23 00-0686 LF 2" Square Bar Stock.....	23.75	
For 316 Stainless Steel, Add	37.57	
For Aluminum, Add	2.11	
For Galvanized Steel, Add	7.28	
For 304 Stainless Steel, Add	33.46	





	<b>Metals 05</b>
	<b>Structural Metal Framing 05 10</b>
	<b>Structural Steel Framing 05 12</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0687 Steel Tubing <small>(05 12 23 00-0438)</small> Note: General purpose low-carbon steel.		
05 12 23 00-0688 Square Steel Tubing <small>(05 12 23 00-0687)</small>		
05 12 23 00-0689 0.06" Wall Thickness <small>(05 12 23 00-0688)</small>		
05 12 23 00-0690 LF 1/2" x 1/2" x 0.06" Square Steel Tubing.....	1.69	0.46
For >100 To 250, Deduct	-0.05	
For >250 To 500, Deduct	-0.09	
For >500 To 1,000, Deduct	-0.15	
For >1,000, Deduct	-0.20	
For 316 Stainless Steel, Add	3.46	
For Aluminum, Add	0.19	
For Galvanized Steel, Add	0.67	
For 304 Stainless Steel, Add	3.08	
05 12 23 00-0691 LF 3/4" x 3/4" x 0.06" Square Steel Tubing.....	2.61	0.72
For >100 To 250, Deduct	-0.07	
For >250 To 500, Deduct	-0.14	
For >500 To 1,000, Deduct	-0.23	
For >1,000, Deduct	-0.32	
For 316 Stainless Steel, Add	5.25	
For Aluminum, Add	0.30	
For Galvanized Steel, Add	1.02	
For 304 Stainless Steel, Add	4.67	
05 12 23 00-0692 LF 1" x 1" x 0.06" Square Steel Tubing.....	3.52	1.32
For >100 To 250, Deduct	-0.10	
For >250 To 500, Deduct	-0.19	
For >500 To 1,000, Deduct	-0.31	
For >1,000, Deduct	-0.43	
For 316 Stainless Steel, Add	7.04	
For Aluminum, Add	0.40	
For Galvanized Steel, Add	1.36	
For 304 Stainless Steel, Add	6.27	
05 12 23 00-0693 LF 1-1/4" x 1-1/4" x 0.06" Square Steel Tubing.....	4.63	1.25
For >100 To 250, Deduct	-0.13	
For >250 To 500, Deduct	-0.24	
For >500 To 1,000, Deduct	-0.40	
For >1,000, Deduct	-0.56	
For 316 Stainless Steel, Add	9.47	
For Aluminum, Add	0.53	
For Galvanized Steel, Add	1.84	
For 304 Stainless Steel, Add	8.44	
05 12 23 00-0694 LF 1-1/2" x 1-1/2" x 0.06" Square Steel Tubing.....	5.49	1.51
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.29	
For >500 To 1,000, Deduct	-0.48	
For >1,000, Deduct	-0.66	
For 316 Stainless Steel, Add	11.14	
For Aluminum, Add	0.63	
For Galvanized Steel, Add	2.16	
For 304 Stainless Steel, Add	9.92	
05 12 23 00-0695 0.083" Wall Thickness <small>(05 12 23 00-0688)</small>		
05 12 23 00-0696 LF 3/4" x 3/4" x 0.083" Square Steel Tubing.....	3.04	0.85
For >100 To 250, Deduct	-0.08	
For >250 To 500, Deduct	-0.16	
For >500 To 1,000, Deduct	-0.27	
For >1,000, Deduct	-0.37	
For 316 Stainless Steel, Add	6.11	
For Aluminum, Add	0.34	
For Galvanized Steel, Add	1.18	
For 304 Stainless Steel, Add	5.44	
05 12 23 00-0697 LF 1" x 1" x 0.083" Square Steel Tubing.....	4.40	1.17
For >100 To 250, Deduct	-0.12	
For >250 To 500, Deduct	-0.23	
For >500 To 1,000, Deduct	-0.38	
For >1,000, Deduct	-0.52	
For 316 Stainless Steel, Add	9.12	
For Aluminum, Add	0.51	
For Galvanized Steel, Add	1.77	
For 304 Stainless Steel, Add	8.12	
05 12 23 00-0698 LF 1-1/4" x 1-1/4" x 0.083" Square Steel Tubing.....	5.35	1.48
For >100 To 250, Deduct	-0.15	
For >250 To 500, Deduct	-0.28	
For >500 To 1,000, Deduct	-0.47	
For >1,000, Deduct	-0.65	
For 316 Stainless Steel, Add	10.78	
For Aluminum, Add	0.61	
For Galvanized Steel, Add	2.09	
For 304 Stainless Steel, Add	9.60	

<b>05</b>	<b>Metals</b>
<b>05 10</b>	<b>Structural Metal Framing</b>
<b>05 12</b>	<b>Structural Steel Framing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0699 LF 1-1/2" x 1-1/2" x 0.083" Square Steel Tubing.....	6.47	1.80
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-0.56	
For >1,000, Deduct	-0.79	
For 316 Stainless Steel, Add	12.99	
For Aluminum, Add	0.73	
For Galvanized Steel, Add	2.52	
For 304 Stainless Steel, Add	11.57	
05 12 23 00-0700 LF 2" x 2" x 0.083" Square Steel Tubing.....	8.31	2.41
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.45	
For >500 To 1,000, Deduct	-0.74	
For >1,000, Deduct	-1.02	
For 316 Stainless Steel, Add	16.35	
For Aluminum, Add	0.92	
For Galvanized Steel, Add	3.17	
For 304 Stainless Steel, Add	14.56	
<b>05 12 23 00-0701 0.12" Wall Thickness (05 12 23 00-0688)</b>		
05 12 23 00-0702 LF 1" x 1" x 0.12" Square Steel Tubing.....	4.89	1.39
For >100 To 250, Deduct	-0.14	
For >250 To 500, Deduct	-0.26	
For >500 To 1,000, Deduct	-0.43	
For >1,000, Deduct	-0.60	
For 316 Stainless Steel, Add	9.73	
For Aluminum, Add	0.55	
For Galvanized Steel, Add	1.88	
For 304 Stainless Steel, Add	8.66	
05 12 23 00-0703 LF 1-1/4" x 1-1/4" x 0.12" Square Steel Tubing.....	6.30	1.78
For >100 To 250, Deduct	-0.18	
For >250 To 500, Deduct	-0.34	
For >500 To 1,000, Deduct	-0.55	
For >1,000, Deduct	-0.77	
For 316 Stainless Steel, Add	12.54	
For Aluminum, Add	0.71	
For Galvanized Steel, Add	2.43	
For 304 Stainless Steel, Add	11.17	
05 12 23 00-0704 LF 1-1/2" x 1-1/2" x 0.12" Square Steel Tubing.....	7.72	2.17
For >100 To 250, Deduct	-0.22	
For >250 To 500, Deduct	-0.41	
For >500 To 1,000, Deduct	-0.68	
For >1,000, Deduct	-0.94	
For 316 Stainless Steel, Add	15.42	
For Aluminum, Add	0.87	
For Galvanized Steel, Add	2.99	
For 304 Stainless Steel, Add	13.74	
05 12 23 00-0705 LF 2" x 2" x 0.12" Square Steel Tubing.....	10.46	2.96
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.56	
For >500 To 1,000, Deduct	-0.92	
For >1,000, Deduct	-1.28	
For 316 Stainless Steel, Add	20.83	
For Aluminum, Add	1.17	
For Galvanized Steel, Add	4.04	
For 304 Stainless Steel, Add	18.55	
<b>05 12 23 00-0706 1/8" Wall Thickness (05 12 23 00-0688)</b>		
05 12 23 00-0707 LF 2" x 2" x 1/8" Square Steel Tubing.....	9.54	3.08
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.55	
For >500 To 1,000, Deduct	-0.89	
For >1,000, Deduct	-1.23	
For 316 Stainless Steel, Add	17.38	
For Aluminum, Add	0.98	
For Galvanized Steel, Add	3.37	
For 304 Stainless Steel, Add	15.48	
05 12 23 00-0708 LF 2-1/2" x 2-1/2" x 1/8" Square Steel Tubing.....	12.52	3.90
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.70	
For >500 To 1,000, Deduct	-1.15	
For >1,000, Deduct	-1.59	
For 316 Stainless Steel, Add	23.46	
For Aluminum, Add	1.32	
For Galvanized Steel, Add	4.54	
For 304 Stainless Steel, Add	20.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0709 LF 3" x 3" x 1/8" Square Steel Tubing.....	14.72	4.72
<i>For &gt;100 To 250, Deduct</i>	-0.47	
<i>For &gt;250 To 500, Deduct</i>	-0.84	
<i>For &gt;500 To 1,000, Deduct</i>	-1.37	
<i>For &gt;1,000, Deduct</i>	-1.89	
<i>For 316 Stainless Steel, Add</i>	26.98	
<i>For Aluminum, Add</i>	1.52	
<i>For Galvanized Steel, Add</i>	5.23	
<i>For 304 Stainless Steel, Add</i>	24.03	
05 12 23 00-0710 LF 3-1/2" x 3-1/2" x 1/8" Square Steel Tubing .....	17.08	5.54
<i>For &gt;100 To 250, Deduct</i>	-0.55	
<i>For &gt;250 To 500, Deduct</i>	-0.98	
<i>For &gt;500 To 1,000, Deduct</i>	-1.59	
<i>For &gt;1,000, Deduct</i>	-2.20	
<i>For 316 Stainless Steel, Add</i>	31.01	
<i>For Aluminum, Add</i>	1.74	
<i>For Galvanized Steel, Add</i>	6.01	
<i>For 304 Stainless Steel, Add</i>	27.62	
05 12 23 00-0711 LF 4" x 4" x 1/8" Square Steel Tubing.....	18.90	6.36
<i>For &gt;100 To 250, Deduct</i>	-0.64	
<i>For &gt;250 To 500, Deduct</i>	-1.11	
<i>For &gt;500 To 1,000, Deduct</i>	-1.79	
<i>For &gt;1,000, Deduct</i>	-2.48	
<i>For 316 Stainless Steel, Add</i>	33.31	
<i>For Aluminum, Add</i>	1.87	
<i>For Galvanized Steel, Add</i>	6.45	
<i>For 304 Stainless Steel, Add</i>	29.67	
<b>05 12 23 00-0712 3/16" Wall Thickness</b> (05 12 23 00-0688)		
05 12 23 00-0713 LF 2" x 2" x 3/16" Square Steel Tubing.....	10.81	3.47
<i>For &gt;100 To 250, Deduct</i>	-0.35	
<i>For &gt;250 To 500, Deduct</i>	-0.62	
<i>For &gt;500 To 1,000, Deduct</i>	-1.00	
<i>For &gt;1,000, Deduct</i>	-1.39	
<i>For 316 Stainless Steel, Add</i>	19.78	
<i>For Aluminum, Add</i>	1.11	
<i>For Galvanized Steel, Add</i>	3.83	
<i>For 304 Stainless Steel, Add</i>	17.61	
05 12 23 00-0714 LF 2-1/2" x 2-1/2" x 3/16" Square Steel Tubing .....	13.98	4.49
<i>For &gt;100 To 250, Deduct</i>	-0.45	
<i>For &gt;250 To 500, Deduct</i>	-0.80	
<i>For &gt;500 To 1,000, Deduct</i>	-1.30	
<i>For &gt;1,000, Deduct</i>	-1.80	
<i>For 316 Stainless Steel, Add</i>	25.57	
<i>For Aluminum, Add</i>	1.44	
<i>For Galvanized Steel, Add</i>	4.95	
<i>For 304 Stainless Steel, Add</i>	22.77	
05 12 23 00-0715 LF 3" x 3" x 3/16" Square Steel Tubing.....	17.19	5.53
<i>For &gt;100 To 250, Deduct</i>	-0.55	
<i>For &gt;250 To 500, Deduct</i>	-0.98	
<i>For &gt;500 To 1,000, Deduct</i>	-1.60	
<i>For &gt;1,000, Deduct</i>	-2.21	
<i>For 316 Stainless Steel, Add</i>	31.42	
<i>For Aluminum, Add</i>	1.77	
<i>For Galvanized Steel, Add</i>	6.09	
<i>For 304 Stainless Steel, Add</i>	27.99	
05 12 23 00-0716 LF 3-1/2" x 3-1/2" x 3/16" Square Steel Tubing .....	20.39	6.55
<i>For &gt;100 To 250, Deduct</i>	-0.66	
<i>For &gt;250 To 500, Deduct</i>	-1.17	
<i>For &gt;500 To 1,000, Deduct</i>	-1.89	
<i>For &gt;1,000, Deduct</i>	-2.62	
<i>For 316 Stainless Steel, Add</i>	37.28	
<i>For Aluminum, Add</i>	2.10	
<i>For Galvanized Steel, Add</i>	7.22	
<i>For 304 Stainless Steel, Add</i>	33.20	
05 12 23 00-0717 LF 4" x 4" x 3/16" Square Steel Tubing.....	23.57	7.57
<i>For &gt;100 To 250, Deduct</i>	-0.76	
<i>For &gt;250 To 500, Deduct</i>	-1.35	
<i>For &gt;500 To 1,000, Deduct</i>	-2.19	
<i>For &gt;1,000, Deduct</i>	-3.03	
<i>For 316 Stainless Steel, Add</i>	43.10	
<i>For Aluminum, Add</i>	2.42	
<i>For Galvanized Steel, Add</i>	8.35	
<i>For 304 Stainless Steel, Add</i>	38.39	
05 12 23 00-0718 LF 4-1/2" x 4-1/2" x 3/16" Square Steel Tubing .....	26.77	8.61
<i>For &gt;100 To 250, Deduct</i>	-0.86	
<i>For &gt;250 To 500, Deduct</i>	-1.53	
<i>For &gt;500 To 1,000, Deduct</i>	-2.49	
<i>For &gt;1,000, Deduct</i>	-3.44	
<i>For 316 Stainless Steel, Add</i>	48.96	
<i>For Aluminum, Add</i>	2.75	
<i>For Galvanized Steel, Add</i>	9.49	
<i>For 304 Stainless Steel, Add</i>	43.61	

<b>05</b>	<b>Metals</b>
<b>05 10</b>	<b>Structural Metal Framing</b>
<b>05 12</b>	<b>Structural Steel Framing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0719 LF 5" x 5" x 3/16" Square Steel Tubing.....	29.94	9.62
For >100 To 250, Deduct	-0.96	
For >250 To 500, Deduct	-1.71	
For >500 To 1,000, Deduct	-2.78	
For >1,000, Deduct	-3.85	
For 316 Stainless Steel, Add	54.75	
For Aluminum, Add	3.08	
For Galvanized Steel, Add	10.61	
For 304 Stainless Steel, Add	48.76	
05 12 23 00-0720 LF 6" x 6" x 3/16" Square Steel Tubing.....	36.34	11.69
For >100 To 250, Deduct	-1.17	
For >250 To 500, Deduct	-2.08	
For >500 To 1,000, Deduct	-3.37	
For >1,000, Deduct	-4.67	
For 316 Stainless Steel, Add	66.46	
For Aluminum, Add	3.74	
For Galvanized Steel, Add	12.88	
For 304 Stainless Steel, Add	59.19	
<b>05 12 23 00-0721 1/4" Wall Thickness (05 12 23 00-0688)</b>		
05 12 23 00-0722 LF 2" x 2" x 1/4" Square Steel Tubing.....	11.47	3.48
For >100 To 250, Deduct	-0.35	
For >250 To 500, Deduct	-0.63	
For >500 To 1,000, Deduct	-1.04	
For >1,000, Deduct	-1.44	
For 316 Stainless Steel, Add	21.86	
For Aluminum, Add	1.23	
For Galvanized Steel, Add	4.23	
For 304 Stainless Steel, Add	19.47	
05 12 23 00-0723 LF 2-1/2" x 2-1/2" x 1/4" Square Steel Tubing.....	15.07	4.57
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.83	
For >500 To 1,000, Deduct	-1.36	
For >1,000, Deduct	-1.89	
For 316 Stainless Steel, Add	28.70	
For Aluminum, Add	1.61	
For Galvanized Steel, Add	5.56	
For 304 Stainless Steel, Add	25.56	
05 12 23 00-0724 LF 3" x 3" x 1/4" Square Steel Tubing.....	18.68	5.67
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-1.03	
For >500 To 1,000, Deduct	-1.69	
For >1,000, Deduct	-2.35	
For 316 Stainless Steel, Add	35.58	
For Aluminum, Add	2.00	
For Galvanized Steel, Add	6.89	
For 304 Stainless Steel, Add	31.69	
05 12 23 00-0725 LF 3-1/2" x 3-1/2" x 1/4" Square Steel Tubing.....	22.27	6.76
For >100 To 250, Deduct	-0.68	
For >250 To 500, Deduct	-1.23	
For >500 To 1,000, Deduct	-2.01	
For >1,000, Deduct	-2.80	
For 316 Stainless Steel, Add	42.43	
For Aluminum, Add	2.39	
For Galvanized Steel, Add	8.22	
For 304 Stainless Steel, Add	37.79	
05 12 23 00-0726 LF 4" x 4" x 1/4" Square Steel Tubing.....	25.88	7.85
For >100 To 250, Deduct	-0.79	
For >250 To 500, Deduct	-1.43	
For >500 To 1,000, Deduct	-2.34	
For >1,000, Deduct	-3.25	
For 316 Stainless Steel, Add	49.31	
For Aluminum, Add	2.77	
For Galvanized Steel, Add	9.55	
For 304 Stainless Steel, Add	43.92	
05 12 23 00-0727 LF 4-1/2" x 4-1/2" x 1/4" Square Steel Tubing.....	29.48	8.95
For >100 To 250, Deduct	-0.89	
For >250 To 500, Deduct	-1.63	
For >500 To 1,000, Deduct	-2.67	
For >1,000, Deduct	-3.70	
For 316 Stainless Steel, Add	56.16	
For Aluminum, Add	3.16	
For Galvanized Steel, Add	10.88	
For 304 Stainless Steel, Add	50.02	
05 12 23 00-0728 LF 5" x 5" x 1/4" Square Steel Tubing.....	33.11	10.05
For >100 To 250, Deduct	-1.01	
For >250 To 500, Deduct	-1.83	
For >500 To 1,000, Deduct	-3.00	
For >1,000, Deduct	-4.16	
For 316 Stainless Steel, Add	63.07	
For Aluminum, Add	3.55	
For Galvanized Steel, Add	12.22	
For 304 Stainless Steel, Add	56.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0729 LF 6" x 6" x 1/4" Square Steel Tubing.....	40.31	12.23
For >100 To 250, Deduct	-1.22	
For >250 To 500, Deduct	-2.23	
For >500 To 1,000, Deduct	-3.65	
For >1,000, Deduct	-5.06	
For 316 Stainless Steel, Add	76.80	
For Aluminum, Add	4.32	
For Galvanized Steel, Add	14.88	
For 304 Stainless Steel, Add	68.40	
 05 12 23 00-0730 Rectangular Steel Tubing (05 12 23 00-0687)		
05 12 23 00-0731 3/16" Wall Thickness (05 12 23 00-0730)		
05 12 23 00-0732 LF 3" x 2" x 3/16" Square Steel Tubing.....	13.98	4.49
For >100 To 250, Deduct	-0.45	
For >250 To 500, Deduct	-0.80	
For >500 To 1,000, Deduct	-1.30	
For >1,000, Deduct	-1.80	
For 316 Stainless Steel, Add	25.57	
For Aluminum, Add	1.44	
For Galvanized Steel, Add	4.95	
For 304 Stainless Steel, Add	22.77	
05 12 23 00-0733 LF 4" x 2" x 3/16" Square Steel Tubing.....	17.19	5.53
For >100 To 250, Deduct	-0.55	
For >250 To 500, Deduct	-0.98	
For >500 To 1,000, Deduct	-1.60	
For >1,000, Deduct	-2.21	
For 316 Stainless Steel, Add	31.42	
For Aluminum, Add	1.77	
For Galvanized Steel, Add	6.09	
For 304 Stainless Steel, Add	27.99	
05 12 23 00-0734 LF 4" x 3" x 3/16" Square Steel Tubing.....	20.39	6.55
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-1.17	
For >500 To 1,000, Deduct	-1.89	
For >1,000, Deduct	-2.62	
For 316 Stainless Steel, Add	37.28	
For Aluminum, Add	2.10	
For Galvanized Steel, Add	7.22	
For 304 Stainless Steel, Add	33.20	
05 12 23 00-0735 LF 5" x 2" x 3/16" Square Steel Tubing.....	20.39	6.55
For >100 To 250, Deduct	-0.66	
For >250 To 500, Deduct	-1.17	
For >500 To 1,000, Deduct	-1.89	
For >1,000, Deduct	-2.62	
For 316 Stainless Steel, Add	37.28	
For Aluminum, Add	2.10	
For Galvanized Steel, Add	7.22	
For 304 Stainless Steel, Add	33.20	
05 12 23 00-0736 LF 5" x 3" x 3/16" Square Steel Tubing.....	23.57	7.57
For >100 To 250, Deduct	-0.76	
For >250 To 500, Deduct	-1.35	
For >500 To 1,000, Deduct	-2.19	
For >1,000, Deduct	-3.03	
For 316 Stainless Steel, Add	43.10	
For Aluminum, Add	2.42	
For Galvanized Steel, Add	8.35	
For 304 Stainless Steel, Add	38.39	
05 12 23 00-0737 LF 5" x 4" x 3/16" Square Steel Tubing.....	26.77	8.61
For >100 To 250, Deduct	-0.86	
For >250 To 500, Deduct	-1.53	
For >500 To 1,000, Deduct	-2.49	
For >1,000, Deduct	-3.44	
For 316 Stainless Steel, Add	48.96	
For Aluminum, Add	2.75	
For Galvanized Steel, Add	9.49	
For 304 Stainless Steel, Add	43.61	
05 12 23 00-0738 LF 6" x 2" x 3/16" Square Steel Tubing.....	23.57	7.57
For >100 To 250, Deduct	-0.76	
For >250 To 500, Deduct	-1.35	
For >500 To 1,000, Deduct	-2.19	
For >1,000, Deduct	-3.03	
For 316 Stainless Steel, Add	43.10	
For Aluminum, Add	2.42	
For Galvanized Steel, Add	8.35	
For 304 Stainless Steel, Add	38.39	
05 12 23 00-0739 LF 6" x 3" x 3/16" Square Steel Tubing.....	26.77	8.61
For >100 To 250, Deduct	-0.86	
For >250 To 500, Deduct	-1.53	
For >500 To 1,000, Deduct	-2.49	
For >1,000, Deduct	-3.44	
For 316 Stainless Steel, Add	48.96	
For Aluminum, Add	2.75	
For Galvanized Steel, Add	9.49	
For 304 Stainless Steel, Add	43.61	

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
05 12 23 00-0740	LF 6" x 4" x 3/16" Square Steel Tubing.....	29.94	9.62
	For >100 To 250, Deduct	-0.96	
	For >250 To 500, Deduct	-1.71	
	For >500 To 1,000, Deduct	-2.78	
	For >1,000, Deduct	-3.85	
	For 316 Stainless Steel, Add	54.75	
	For Aluminum, Add	3.08	
	For Galvanized Steel, Add	10.61	
	For 304 Stainless Steel, Add	48.76	
<b>05 12 23 00-0741</b>	<b>1/4" Wall Thickness (05 12 23 00-0730)</b>		
05 12 23 00-0742	LF 3" x 2" x 1/4" Square Steel Tubing.....	15.07	4.57
	For >100 To 250, Deduct	-0.46	
	For >250 To 500, Deduct	-0.83	
	For >500 To 1,000, Deduct	-1.36	
	For >1,000, Deduct	-1.89	
	For 316 Stainless Steel, Add	28.70	
	For Aluminum, Add	1.61	
	For Galvanized Steel, Add	5.56	
	For 304 Stainless Steel, Add	25.56	
05 12 23 00-0743	LF 4" x 2" x 1/4" Square Steel Tubing.....	18.68	5.67
	For >100 To 250, Deduct	-0.57	
	For >250 To 500, Deduct	-1.03	
	For >500 To 1,000, Deduct	-1.69	
	For >1,000, Deduct	-2.35	
	For 316 Stainless Steel, Add	35.58	
	For Aluminum, Add	2.00	
	For Galvanized Steel, Add	6.89	
	For 304 Stainless Steel, Add	31.69	
05 12 23 00-0744	LF 4" x 3" x 1/4" Square Steel Tubing.....	22.27	6.76
	For >100 To 250, Deduct	-0.68	
	For >250 To 500, Deduct	-1.23	
	For >500 To 1,000, Deduct	-2.01	
	For >1,000, Deduct	-2.80	
	For 316 Stainless Steel, Add	42.43	
	For Aluminum, Add	2.39	
	For Galvanized Steel, Add	8.22	
	For 304 Stainless Steel, Add	37.79	
05 12 23 00-0745	LF 5" x 2" x 1/4" Square Steel Tubing.....	22.27	6.76
	For >100 To 250, Deduct	-0.68	
	For >250 To 500, Deduct	-1.23	
	For >500 To 1,000, Deduct	-2.01	
	For >1,000, Deduct	-2.80	
	For 316 Stainless Steel, Add	42.43	
	For Aluminum, Add	2.39	
	For Galvanized Steel, Add	8.22	
	For 304 Stainless Steel, Add	37.79	
05 12 23 00-0746	LF 5" x 3" x 1/4" Square Steel Tubing.....	25.88	7.85
	For >100 To 250, Deduct	-0.79	
	For >250 To 500, Deduct	-1.43	
	For >500 To 1,000, Deduct	-2.34	
	For >1,000, Deduct	-3.25	
	For 316 Stainless Steel, Add	49.31	
	For Aluminum, Add	2.77	
	For Galvanized Steel, Add	9.55	
	For 304 Stainless Steel, Add	43.92	
05 12 23 00-0747	LF 5" x 4" x 1/4" Square Steel Tubing.....	29.48	8.95
	For >100 To 250, Deduct	-0.89	
	For >250 To 500, Deduct	-1.63	
	For >500 To 1,000, Deduct	-2.67	
	For >1,000, Deduct	-3.70	
	For 316 Stainless Steel, Add	56.16	
	For Aluminum, Add	3.16	
	For Galvanized Steel, Add	10.88	
	For 304 Stainless Steel, Add	50.02	
05 12 23 00-0748	LF 6" x 2" x 1/4" Square Steel Tubing.....	25.88	7.85
	For >100 To 250, Deduct	-0.79	
	For >250 To 500, Deduct	-1.43	
	For >500 To 1,000, Deduct	-2.34	
	For >1,000, Deduct	-3.25	
	For 316 Stainless Steel, Add	49.31	
	For Aluminum, Add	2.77	
	For Galvanized Steel, Add	9.55	
	For 304 Stainless Steel, Add	43.92	
05 12 23 00-0749	LF 6" x 3" x 1/4" Square Steel Tubing.....	29.48	8.95
	For >100 To 250, Deduct	-0.89	
	For >250 To 500, Deduct	-1.63	
	For >500 To 1,000, Deduct	-2.67	
	For >1,000, Deduct	-3.70	
	For 316 Stainless Steel, Add	56.16	
	For Aluminum, Add	3.16	
	For Galvanized Steel, Add	10.88	
	For 304 Stainless Steel, Add	50.02	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0750	LF		6" x 4" x 1/4" Square Steel Tubing.....	33.11	10.05
			<i>For &gt;100 To 250, Deduct</i>	-1.01	
			<i>For &gt;250 To 500, Deduct</i>	-1.83	
			<i>For &gt;500 To 1,000, Deduct</i>	-3.00	
			<i>For &gt;1,000, Deduct</i>	-4.16	
			<i>For 316 Stainless Steel, Add</i>	63.07	
			<i>For Aluminum, Add</i>	3.55	
			<i>For Galvanized Steel, Add</i>	12.22	
			<i>For 304 Stainless Steel, Add</i>	56.17	
05 12 23 00-0751			Round Steel Tubing (05 12 23 00-0687)		
05 12 23 00-0752			0.065" Wall Thickness (05 12 23 00-0751)		
05 12 23 00-0753	LF		1" Diameter x 0.065" Round Steel Tubing .....	3.04	0.84
			<i>For &gt;100 To 250, Deduct</i>	-0.08	
			<i>For &gt;250 To 500, Deduct</i>	-0.16	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.26	
			<i>For &gt;1,000, Deduct</i>	-0.37	
			<i>For 316 Stainless Steel, Add</i>	6.14	
			<i>For Aluminum, Add</i>	0.35	
			<i>For Galvanized Steel, Add</i>	1.19	
			<i>For 304 Stainless Steel, Add</i>	5.47	
05 12 23 00-0754	LF		1-1/4" Diameter x 0.065" Round Steel Tubing .....	3.84	1.06
			<i>For &gt;100 To 250, Deduct</i>	-0.11	
			<i>For &gt;250 To 500, Deduct</i>	-0.20	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.33	
			<i>For &gt;1,000, Deduct</i>	-0.46	
			<i>For 316 Stainless Steel, Add</i>	7.78	
			<i>For Aluminum, Add</i>	0.44	
			<i>For Galvanized Steel, Add</i>	1.51	
			<i>For 304 Stainless Steel, Add</i>	6.93	
05 12 23 00-0755	LF		1-1/2" Diameter x 0.065" Round Steel Tubing .....	4.65	1.28
			<i>For &gt;100 To 250, Deduct</i>	-0.13	
			<i>For &gt;250 To 500, Deduct</i>	-0.24	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.40	
			<i>For &gt;1,000, Deduct</i>	-0.56	
			<i>For 316 Stainless Steel, Add</i>	9.41	
			<i>For Aluminum, Add</i>	0.53	
			<i>For Galvanized Steel, Add</i>	1.82	
			<i>For 304 Stainless Steel, Add</i>	8.38	
05 12 23 00-0756	LF		2" Diameter x 0.065" Round Steel Tubing .....	6.27	1.73
			<i>For &gt;100 To 250, Deduct</i>	-0.17	
			<i>For &gt;250 To 500, Deduct</i>	-0.33	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.54	
			<i>For &gt;1,000, Deduct</i>	-0.76	
			<i>For 316 Stainless Steel, Add</i>	12.70	
			<i>For Aluminum, Add</i>	0.71	
			<i>For Galvanized Steel, Add</i>	2.46	
			<i>For 304 Stainless Steel, Add</i>	11.31	
05 12 23 00-0757	LF		2-1/2" Diameter x 0.065" Round Steel Tubing .....	7.90	2.17
			<i>For &gt;100 To 250, Deduct</i>	-0.22	
			<i>For &gt;250 To 500, Deduct</i>	-0.42	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.69	
			<i>For &gt;1,000, Deduct</i>	-0.96	
			<i>For 316 Stainless Steel, Add</i>	16.00	
			<i>For Aluminum, Add</i>	0.90	
			<i>For Galvanized Steel, Add</i>	3.10	
			<i>For 304 Stainless Steel, Add</i>	14.25	
05 12 23 00-0758	LF		3" Diameter x 0.065" Round Steel Tubing .....	9.51	2.62
			<i>For &gt;100 To 250, Deduct</i>	-0.26	
			<i>For &gt;250 To 500, Deduct</i>	-0.50	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.82	
			<i>For &gt;1,000, Deduct</i>	-1.15	
			<i>For 316 Stainless Steel, Add</i>	19.26	
			<i>For Aluminum, Add</i>	1.08	
			<i>For Galvanized Steel, Add</i>	3.73	
			<i>For 304 Stainless Steel, Add</i>	17.16	
05 12 23 00-0759	LF		3-1/2" Diameter x 0.065" Round Steel Tubing .....	11.14	3.07
			<i>For &gt;100 To 250, Deduct</i>	-0.31	
			<i>For &gt;250 To 500, Deduct</i>	-0.59	
			<i>For &gt;500 To 1,000, Deduct</i>	-0.97	
			<i>For &gt;1,000, Deduct</i>	-1.35	
			<i>For 316 Stainless Steel, Add</i>	22.56	
			<i>For Aluminum, Add</i>	1.27	
			<i>For Galvanized Steel, Add</i>	4.37	
			<i>For 304 Stainless Steel, Add</i>	20.09	
05 12 23 00-0760	LF		4" Diameter x 0.065" Round Steel Tubing .....	12.77	3.51
			<i>For &gt;100 To 250, Deduct</i>	-0.35	
			<i>For &gt;250 To 500, Deduct</i>	-0.67	
			<i>For &gt;500 To 1,000, Deduct</i>	-1.11	
			<i>For &gt;1,000, Deduct</i>	-1.54	
			<i>For 316 Stainless Steel, Add</i>	25.86	
			<i>For Aluminum, Add</i>	1.45	
			<i>For Galvanized Steel, Add</i>	5.01	
			<i>For 304 Stainless Steel, Add</i>	23.03	

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0761	<b>0.083" Wall Thickness</b> (05 12 23 00-0751)		
05 12 23 00-0762	LF 1" Diameter x 0.083" Round Steel Tubing .....	3.30	0.92
	For >100 To 250, Deduct	-0.09	
	For >250 To 500, Deduct	-0.17	
	For >500 To 1,000, Deduct	-0.29	
	For >1,000, Deduct	-0.40	
	For 316 Stainless Steel, Add	6.66	
	For Aluminum, Add	0.37	
	For Galvanized Steel, Add	1.29	
	For 304 Stainless Steel, Add	5.93	
05 12 23 00-0763	LF 1-1/4" Diameter x 0.083" Round Steel Tubing .....	4.19	1.17
	For >100 To 250, Deduct	-0.12	
	For >250 To 500, Deduct	-0.22	
	For >500 To 1,000, Deduct	-0.36	
	For >1,000, Deduct	-0.51	
	For 316 Stainless Steel, Add	8.45	
	For Aluminum, Add	0.48	
	For Galvanized Steel, Add	1.64	
	For 304 Stainless Steel, Add	7.52	
05 12 23 00-0764	LF 1-1/2" Diameter x 0.083" Round Steel Tubing .....	5.09	1.41
	For >100 To 250, Deduct	-0.14	
	For >250 To 500, Deduct	-0.27	
	For >500 To 1,000, Deduct	-0.44	
	For >1,000, Deduct	-0.62	
	For 316 Stainless Steel, Add	10.27	
	For Aluminum, Add	0.58	
	For Galvanized Steel, Add	1.99	
	For 304 Stainless Steel, Add	9.15	
05 12 23 00-0765	LF 2" Diameter x 0.083" Round Steel Tubing .....	6.89	1.91
	For >100 To 250, Deduct	-0.19	
	For >250 To 500, Deduct	-0.36	
	For >500 To 1,000, Deduct	-0.60	
	For >1,000, Deduct	-0.84	
	For 316 Stainless Steel, Add	13.89	
	For Aluminum, Add	0.78	
	For Galvanized Steel, Add	2.69	
	For 304 Stainless Steel, Add	12.37	
05 12 23 00-0766	LF 2-1/2" Diameter x 0.083" Round Steel Tubing .....	8.69	2.42
	For >100 To 250, Deduct	-0.24	
	For >250 To 500, Deduct	-0.46	
	For >500 To 1,000, Deduct	-0.76	
	For >1,000, Deduct	-1.05	
	For 316 Stainless Steel, Add	17.50	
	For Aluminum, Add	0.98	
	For Galvanized Steel, Add	3.39	
	For 304 Stainless Steel, Add	15.59	
05 12 23 00-0767	LF 3" Diameter x 0.083" Round Steel Tubing .....	10.49	2.91
	For >100 To 250, Deduct	-0.29	
	For >250 To 500, Deduct	-0.55	
	For >500 To 1,000, Deduct	-0.91	
	For >1,000, Deduct	-1.27	
	For 316 Stainless Steel, Add	21.12	
	For Aluminum, Add	1.19	
	For Galvanized Steel, Add	4.09	
	For 304 Stainless Steel, Add	18.81	
05 12 23 00-0768	LF 3-1/2" Diameter x 0.083" Round Steel Tubing .....	12.28	3.41
	For >100 To 250, Deduct	-0.34	
	For >250 To 500, Deduct	-0.65	
	For >500 To 1,000, Deduct	-1.07	
	For >1,000, Deduct	-1.49	
	For 316 Stainless Steel, Add	24.74	
	For Aluminum, Add	1.39	
	For Galvanized Steel, Add	4.79	
	For 304 Stainless Steel, Add	22.03	
05 12 23 00-0769	LF 4" Diameter x 0.083" Round Steel Tubing .....	14.07	3.91
	For >100 To 250, Deduct	-0.39	
	For >250 To 500, Deduct	-0.74	
	For >500 To 1,000, Deduct	-1.22	
	For >1,000, Deduct	-1.71	
	For 316 Stainless Steel, Add	28.35	
	For Aluminum, Add	1.59	
	For Galvanized Steel, Add	5.49	
	For 304 Stainless Steel, Add	25.25	

05 12 23 00-0770 0.125" Wall Thickness (05 12 23 00-0751)





<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0771 LF 2" Diameter x 0.125" Round Steel Tubing ..... 7.48		2.42
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.43	
For >500 To 1,000, Deduct	-0.70	
For >1,000, Deduct	-0.96	
For 316 Stainless Steel, Add	13.63	
For Aluminum, Add	0.77	
For Galvanized Steel, Add	2.64	
For 304 Stainless Steel, Add	12.14	
05 12 23 00-0772 LF 2-1/2" Diameter x 0.125" Round Steel Tubing ..... 9.47		3.06
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.54	
For >500 To 1,000, Deduct	-0.88	
For >1,000, Deduct	-1.22	
For 316 Stainless Steel, Add	17.25	
For Aluminum, Add	0.97	
For Galvanized Steel, Add	3.34	
For 304 Stainless Steel, Add	15.36	
05 12 23 00-0773 LF 3" Diameter x 0.125" Round Steel Tubing ..... 11.46		3.70
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.66	
For >500 To 1,000, Deduct	-1.07	
For >1,000, Deduct	-1.48	
For 316 Stainless Steel, Add	20.90	
For Aluminum, Add	1.18	
For Galvanized Steel, Add	4.05	
For 304 Stainless Steel, Add	18.61	
05 12 23 00-0774 LF 3-1/2" Diameter x 0.125" Round Steel Tubing ..... 13.46		4.35
For >100 To 250, Deduct	-0.44	
For >250 To 500, Deduct	-0.77	
For >500 To 1,000, Deduct	-1.25	
For >1,000, Deduct	-1.73	
For 316 Stainless Steel, Add	24.51	
For Aluminum, Add	1.38	
For Galvanized Steel, Add	4.75	
For 304 Stainless Steel, Add	21.83	
05 12 23 00-0775 LF 4" Diameter x 0.125" Round Steel Tubing ..... 15.45		4.99
For >100 To 250, Deduct	-0.50	
For >250 To 500, Deduct	-0.89	
For >500 To 1,000, Deduct	-1.44	
For >1,000, Deduct	-1.99	
For 316 Stainless Steel, Add	28.16	
For Aluminum, Add	1.58	
For Galvanized Steel, Add	5.46	
For 304 Stainless Steel, Add	25.08	
<b>05 12 23 00-0776 Flat Steel Bar</b> <small>(05 12 23 00-0438)</small>		
<b>05 12 23 00-0777 1/8" Thick</b> <small>(05 12 23 00-0776)</small>		
05 12 23 00-0778 LF 1/8" Thick x 1" Wide Flat Steel Bar ..... 2.19		1.20
For 316 Stainless Steel, Add	1.25	
For Aluminum, Add	0.07	
For Galvanized Steel, Add	0.24	
For 304 Stainless Steel, Add	1.11	
05 12 23 00-0779 LF 1/8" Thick x 2" Wide Flat Steel Bar ..... 3.35		1.80
For 316 Stainless Steel, Add	2.08	
For Aluminum, Add	0.12	
For Galvanized Steel, Add	0.40	
For 304 Stainless Steel, Add	1.85	
05 12 23 00-0780 LF 1/8" Thick x 4" Wide Flat Steel Bar ..... 4.99		2.54
For 316 Stainless Steel, Add	3.81	
For Aluminum, Add	0.21	
For Galvanized Steel, Add	0.74	
For 304 Stainless Steel, Add	3.39	
05 12 23 00-0781 LF 1/8" Thick x 6" Wide Flat Steel Bar ..... 6.77		3.44
For 316 Stainless Steel, Add	5.12	
For Aluminum, Add	0.29	
For Galvanized Steel, Add	0.99	
For 304 Stainless Steel, Add	4.56	
<b>05 12 23 00-0782 3/16" Thick</b> <small>(05 12 23 00-0776)</small>		
05 12 23 00-0783 LF 3/16" Thick x 1" Wide Flat Steel Bar ..... 2.83		1.49
For 316 Stainless Steel, Add	1.92	
For Aluminum, Add	0.11	
For Galvanized Steel, Add	0.37	
For 304 Stainless Steel, Add	1.71	
05 12 23 00-0784 LF 3/16" Thick x 2" Wide Flat Steel Bar ..... 4.39		2.23
For 316 Stainless Steel, Add	3.30	
For Aluminum, Add	0.19	
For Galvanized Steel, Add	0.64	
For 304 Stainless Steel, Add	2.94	

**05 Metals****05 10 Structural Metal Framing****05 12 Structural Steel Framing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0785	LF		3/16" Thick x 4" Wide Flat Steel Bar .....	5.59	2.58
			<i>For 316 Stainless Steel, Add</i>	5.57	
			<i>For Aluminum, Add</i>	0.31	
			<i>For Galvanized Steel, Add</i>	1.08	
			<i>For 304 Stainless Steel, Add</i>	4.96	
05 12 23 00-0786	LF		3/16" Thick x 6" Wide Flat Steel Bar .....	7.76	3.56
			<i>For 316 Stainless Steel, Add</i>	7.71	
			<i>For Aluminum, Add</i>	0.43	
			<i>For Galvanized Steel, Add</i>	1.49	
			<i>For 304 Stainless Steel, Add</i>	6.87	
<b>05 12 23 00-0787</b>			<b>1/4" Thick</b> (05 12 23 00-0776)		
05 12 23 00-0788	LF		1/4" Thick x 1" Wide Flat Steel Bar .....	2.96	1.58
			<i>For 316 Stainless Steel, Add</i>	1.89	
			<i>For Aluminum, Add</i>	0.11	
			<i>For Galvanized Steel, Add</i>	0.37	
			<i>For 304 Stainless Steel, Add</i>	1.68	
05 12 23 00-0789	LF		1/4" Thick x 2" Wide Flat Steel Bar .....	4.74	2.37
			<i>For 316 Stainless Steel, Add</i>	3.81	
			<i>For Aluminum, Add</i>	0.21	
			<i>For Galvanized Steel, Add</i>	0.74	
			<i>For 304 Stainless Steel, Add</i>	3.39	
05 12 23 00-0790	LF		1/4" Thick x 4" Wide Flat Steel Bar .....	6.37	2.70
			<i>For 316 Stainless Steel, Add</i>	7.39	
			<i>For Aluminum, Add</i>	0.42	
			<i>For Galvanized Steel, Add</i>	1.43	
			<i>For 304 Stainless Steel, Add</i>	6.58	
05 12 23 00-0791	LF		1/4" Thick x 6" Wide Flat Steel Bar .....	9.28	4.00
			<i>For 316 Stainless Steel, Add</i>	10.50	
			<i>For Aluminum, Add</i>	0.59	
			<i>For Galvanized Steel, Add</i>	2.03	
			<i>For 304 Stainless Steel, Add</i>	9.35	
<b>05 12 23 00-0792</b>			<b>3/8" Thick</b> (05 12 23 00-0776)		
05 12 23 00-0793	LF		3/8" Thick x 1" Wide Flat Steel Bar .....	3.60	1.77
			<i>For 316 Stainless Steel, Add</i>	2.98	
			<i>For Aluminum, Add</i>	0.17	
			<i>For Galvanized Steel, Add</i>	0.58	
			<i>For 304 Stainless Steel, Add</i>	2.65	
05 12 23 00-0794	LF		3/8" Thick x 2" Wide Flat Steel Bar .....	5.71	2.66
			<i>For 316 Stainless Steel, Add</i>	5.47	
			<i>For Aluminum, Add</i>	0.31	
			<i>For Galvanized Steel, Add</i>	1.06	
			<i>For 304 Stainless Steel, Add</i>	4.87	
05 12 23 00-0795	LF		3/8" Thick x 4" Wide Flat Steel Bar .....	7.98	3.04
			<i>For 316 Stainless Steel, Add</i>	10.94	
			<i>For Aluminum, Add</i>	0.62	
			<i>For Galvanized Steel, Add</i>	2.12	
			<i>For 304 Stainless Steel, Add</i>	9.75	
05 12 23 00-0796	LF		3/8" Thick x 6" Wide Flat Steel Bar .....	11.56	4.49
			<i>For 316 Stainless Steel, Add</i>	15.39	
			<i>For Aluminum, Add</i>	0.87	
			<i>For Galvanized Steel, Add</i>	2.98	
			<i>For 304 Stainless Steel, Add</i>	13.71	
<b>05 12 23 00-0797</b>			<b>1/2" Thick</b> (05 12 23 00-0776)		
05 12 23 00-0798	LF		1/2" Thick x 1" Wide Flat Steel Bar .....	4.12	1.94
			<i>For 316 Stainless Steel, Add</i>	3.81	
			<i>For Aluminum, Add</i>	0.21	
			<i>For Galvanized Steel, Add</i>	0.74	
			<i>For 304 Stainless Steel, Add</i>	3.39	
05 12 23 00-0799	LF		1/2" Thick x 2" Wide Flat Steel Bar .....	6.58	2.93
			<i>For 316 Stainless Steel, Add</i>	6.98	
			<i>For Aluminum, Add</i>	0.39	
			<i>For Galvanized Steel, Add</i>	1.35	
			<i>For 304 Stainless Steel, Add</i>	6.21	
05 12 23 00-0800	LF		1/2" Thick x 4" Wide Flat Steel Bar .....	8.73	3.33
			<i>For 316 Stainless Steel, Add</i>	11.90	
			<i>For Aluminum, Add</i>	0.67	
			<i>For Galvanized Steel, Add</i>	2.31	
			<i>For 304 Stainless Steel, Add</i>	10.60	
05 12 23 00-0801	LF		1/2" Thick x 6" Wide Flat Steel Bar .....	14.85	4.95
			<i>For 316 Stainless Steel, Add</i>	23.74	
			<i>For Aluminum, Add</i>	1.34	
			<i>For Galvanized Steel, Add</i>	4.60	
			<i>For 304 Stainless Steel, Add</i>	21.15	
<b>05 12 23 00-0802</b>			<b>Flat Steel Plate</b> (05 12 23 00-0438)		



<b>Metals</b>	<b>05</b>	<b>05</b>
Structural Metal Framing	05 10	
Structural Steel Framing	05 12	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 12 23 00-0803 SF 1/8" Thick Flat Steel Plate..... For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	10.56 8.96 0.50 1.74 7.98	5.17
05 12 23 00-0804 SF 3/16" Thick Flat Steel Plate..... For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	11.53 11.20 0.63 2.17 9.98	5.35
05 12 23 00-0805 SF 1/4" Thick Flat Steel Plate..... For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	13.47 14.27 0.80 2.77 12.71	6.00
05 12 23 00-0806 SF 3/8" Thick Flat Steel Plate..... For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	17.14 22.43 1.26 4.35 19.98	6.74
05 12 23 00-0807 SF 1/2" Thick Flat Steel Plate..... For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	19.87 27.94 1.57 5.41 24.88	7.42
05 12 23 00-0808 SF 3/4" Thick Flat Steel Plate..... For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	30.29 52.38 2.95 10.15 46.65	9.19
05 12 23 00-0809 SF 1" Thick Flat Steel Plate..... For 316 Stainless Steel, Add For Aluminum, Add For Galvanized Steel, Add For 304 Stainless Steel, Add	39.81 71.71 4.03 13.89 63.87	11.48

**05 13 Structural Stainless-Steel Framing** (05 10)

**05 13 00 00-0001 Stainless Steel Tube** (05 13)

05 13 00 00-0002 LF 1" x 1" Stainless Steel Tube.....	24.03	
05 13 00 00-0003 LF 1-1/2" x 1-1/2" Stainless Steel Tube .....	31.18	
05 13 00 00-0004 LF 2" x 2" Stainless Steel Tube.....	41.52	

**05 14 Structural Aluminum Framing** (05 10)

**05 14 16 Structural Aluminum Framing** (05 14)

**05 14 16 00-0001 Rolled Or Plate Shapes** (05 14 16)

Note: 1" through 10" member.

05 14 16 00-0002 LB Structural Aluminum, Up To 2,000 LB / Order 1" To 10" Rolled / Plate Structural Members .....	5.05	0.67
05 14 16 00-0003 LB Structural Aluminum, >2,000 - 9,999 LB / Order 1" To 10" Rolled / Plate Structural Members .....	4.47	0.63

**05 14 16 00-0004 Aluminum Extrusions** (05 14 16)

05 14 16 00-0005 LB Aluminum Extrusions, Stock Shapes 1" To 10" Rolled / Plate Structural Members .....	9.06	2.77
05 14 16 00-0006 LB Aluminum Extrusions, Custom Shapes 1" To 10" Rolled / Plate Structural Members.....	9.51	2.77

**05 14 16 00-0007 Aluminum Tubing** (05 14 16)

05 14 16 00-0008 LB Aluminum Extrusions, Tubular Shapes 1" To 10" Rolled / Plate Structural Members.....	10.27	2.91
05 14 16 00-0009 LF 1" x 1" Aluminum Tubing, 1/8" Wall Thickness .....	11.79	4.72
05 14 16 00-0010 LF 1-1/4" x 1-1/4" Aluminum Tubing, 1/8" Wall Thickness.....	13.57	5.14
05 14 16 00-0011 LF 1-1/2" x 1-1/2" Aluminum Tubing, 1/8" Wall Thickness.....	15.71	6.00
05 14 16 00-0012 LF 2" x 2" Aluminum Tubing, 1/8" Wall Thickness .....	17.80	6.43
05 14 16 00-0013 LF 4" x 4" Aluminum Tubing, 1/4" Wall Thickness .....	39.04	8.14
05 14 16 00-0014 LF 2" x 5" Aluminum Tubing, 1/4" Wall Thickness .....	32.71	7.29

**05 14 16 00-0015 Columns** (05 14 16)

Note: Baked on paint finish, load bearing.

**05 14 16 00-0016 Round Columns** (05 14 16 00-0015)

05 14 16 00-0017 LF 6" Diameter Aluminum Column .....	31.06	5.57
05 14 16 00-0018 LF 8" Diameter Aluminum Column.....	41.29	7.98
05 14 16 00-0019 LF 10" Diameter Aluminum Column.....	49.88	8.97
05 14 16 00-0020 LF 12" Diameter Aluminum Column.....	72.33	9.40
05 14 16 00-0021 LF 15" Diameter Aluminum Column.....	91.64	10.89
05 14 16 00-0022 EA 6" Diameter Aluminum Base And Cap .....	59.47	10.39
05 14 16 00-0023 EA 8" Diameter Aluminum Base And Cap .....	67.67	11.22
05 14 16 00-0024 EA 10" Diameter Aluminum Base And Cap .....	84.38	12.47
05 14 16 00-0025 EA 12" Diameter Aluminum Base And Cap .....	140.83	13.30

<b>05</b>	<b>05 Metals</b>
	<b>05 10 Structural Metal Framing</b>
	<b>05 14 Structural Aluminum Framing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 14 16 00-0026 EA 15" Diameter Aluminum Base And Cap .....	212.08	14.55
<b>05 14 16 00-0027 Octagonal Columns (05 14 16 00-0015)</b>		
05 14 16 00-0028 LF 6" Diameter Aluminum Column .....	33.85	5.57
05 14 16 00-0029 LF 8" Diameter Aluminum Column .....	46.35	7.98
05 14 16 00-0030 LF 10" Diameter Aluminum Column .....	56.27	8.97
05 14 16 00-0031 LF 12" Diameter Aluminum Column .....	83.06	9.40
05 14 16 00-0032 LF 15" Diameter Aluminum Column .....	105.63	10.89
05 14 16 00-0033 EA 6" Diameter Aluminum Base And Cap .....	67.21	10.39
05 14 16 00-0034 EA 8" Diameter Aluminum Base And Cap .....	76.72	11.22
05 14 16 00-0035 EA 10" Diameter Aluminum Base And Cap .....	96.27	12.47
05 14 16 00-0036 EA 12" Diameter Aluminum Base And Cap .....	163.67	13.30
05 14 16 00-0037 EA 15" Diameter Aluminum Base And Cap .....	248.68	14.55
<b>05 14 16 00-0038 Fluted Columns (05 14 16 00-0015)</b>		
05 14 16 00-0039 LF 6" Diameter Aluminum Column .....	37.27	5.57
05 14 16 00-0040 LF 8" Diameter Aluminum Column .....	50.90	7.98
05 14 16 00-0041 LF 10" Diameter Aluminum Column .....	62.02	8.97
05 14 16 00-0042 LF 12" Diameter Aluminum Column .....	92.71	9.40
05 14 16 00-0043 LF 15" Diameter Aluminum Column .....	118.21	10.89
05 14 16 00-0044 EA 6" Diameter Aluminum Base And Cap .....	74.18	10.39
05 14 16 00-0045 EA 8" Diameter Aluminum Base And Cap .....	84.86	11.22
05 14 16 00-0046 EA 10" Diameter Aluminum Base And Cap .....	106.97	12.47
05 14 16 00-0047 EA 12" Diameter Aluminum Base And Cap .....	184.23	13.30
05 14 16 00-0048 EA 15" Diameter Aluminum Base And Cap .....	281.62	14.55
<b>05 14 16 00-0049 Square Columns (05 14 16 00-0015)</b>		
05 14 16 00-0050 LF 6" Aluminum Column .....	39.61	5.57
05 14 16 00-0051 LF 8" Aluminum Column .....	54.02	7.98
05 14 16 00-0052 LF 10" Aluminum Column .....	65.95	8.97
05 14 16 00-0053 LF 12" Aluminum Column .....	99.31	9.40
05 14 16 00-0054 LF 15" Aluminum Column .....	126.82	10.89
05 14 16 00-0055 EA 6" Aluminum Base And Cap .....	78.94	10.39
05 14 16 00-0056 EA 8" Aluminum Base And Cap .....	90.42	11.22
05 14 16 00-0057 EA 10" Aluminum Base And Cap .....	114.28	12.47
05 14 16 00-0058 EA 12" Aluminum Base And Cap .....	198.29	13.30
05 14 16 00-0059 EA 15" Aluminum Base And Cap .....	304.14	14.55
<b>05 14 16 00-0060 Ornamental Or Decorative Cap And Bases (05 14 16 00-0015)</b>		
05 14 16 00-0061 EA 8" Corinthian Capital And Base .....	418.88	12.47
05 14 16 00-0062 EA 10" Corinthian Capital And Base .....	614.11	14.55
05 14 16 00-0063 EA 12" Corinthian Capital And Base .....	967.60	16.63
05 14 16 00-0064 EA 8" Scamozzi Capital And Base .....	211.81	12.47
05 14 16 00-0065 EA 10" Scamozzi Capital And Base .....	282.47	14.55
05 14 16 00-0066 EA 12" Scamozzi Capital And Base .....	560.53	16.63
<b>05 15 Wire Rope Assemblies (05 10)</b>		
<b>05 15 16 Steel Wire Rope Assemblies (05 15)</b>		
<b>05 15 16 00-0001 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)</b>		
05 15 16 00-0002 LF 1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....	1.15	0.09
For >500, Deduct .....	-0.20	
05 15 16 00-0003 LF 5/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....	1.55	0.09
For >500, Deduct .....	-0.26	
05 15 16 00-0004 LF 3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....	1.84	0.17
For >500, Deduct .....	-0.30	
05 15 16 00-0005 LF 7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....	2.22	0.17
For >500, Deduct .....	-0.35	
05 15 16 00-0006 LF 1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....	2.58	0.26
For >500, Deduct .....	-0.40	
05 15 16 00-0007 LF 9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....	3.17	0.34
For >500, Deduct .....	-0.48	
05 15 16 00-0008 LF 5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....	3.80	0.34
For >500, Deduct .....	-0.57	
05 15 16 00-0009 LF 3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope .....	5.26	0.60
For >500, Deduct .....	-0.78	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0010	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.08	0.68
			For >500, Deduct	-1.05	
05 15 16 00-0011	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.83	0.95
			For >500, Deduct	-1.28	
05 15 16 00-0012	LF		1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	10.92	1.20
			For >500, Deduct	-1.58	
05 15 16 00-0013	LF		1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	13.30	1.46
			For >500, Deduct	-1.93	
<b>05 15 16 00-0014      6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)</b>					
05 15 16 00-0015	LF		1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.35	0.09
			For >500, Deduct	-0.24	
05 15 16 00-0016	LF		5/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.75	0.09
			For >500, Deduct	-0.30	
05 15 16 00-0017	LF		3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.17	0.17
			For >500, Deduct	-0.37	
05 15 16 00-0018	LF		7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.47	0.17
			For >500, Deduct	-0.40	
05 15 16 00-0019	LF		1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.95	0.26
			For >500, Deduct	-0.47	
05 15 16 00-0020	LF		9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.42	0.34
			For >500, Deduct	-0.53	
05 15 16 00-0021	LF		5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.99	0.34
			For >500, Deduct	-0.61	
05 15 16 00-0022	LF		3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.85	0.60
			For >500, Deduct	-0.90	
05 15 16 00-0023	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.52	0.68
			For >500, Deduct	-1.14	
05 15 16 00-0024	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	9.26	0.95
			For >500, Deduct	-1.38	
05 15 16 00-0025	LF		1-1/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	11.86	1.20
			For >500, Deduct	-1.76	
05 15 16 00-0026	LF		1-1/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	14.41	1.46
			For >500, Deduct	-2.15	
<b>05 15 16 00-0027      6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope (05 15 16)</b>					
05 15 16 00-0028	LF		1/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.07	0.09
			For >500, Deduct	-0.18	
05 15 16 00-0029	LF		5/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.46	0.09
			For >500, Deduct	-0.25	
05 15 16 00-0030	LF		3/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	1.73	0.17
			For >500, Deduct	-0.28	
05 15 16 00-0031	LF		7/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.04	0.17
			For >500, Deduct	-0.32	
05 15 16 00-0032	LF		1/2" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	2.47	0.26
			For >500, Deduct	-0.38	
05 15 16 00-0033	LF		9/16" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.12	0.34
			For >500, Deduct	-0.47	
05 15 16 00-0034	LF		5/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	3.65	0.34
			For >500, Deduct	-0.54	
05 15 16 00-0035	LF		3/4" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	5.12	0.60
			For >500, Deduct	-0.75	
05 15 16 00-0036	LF		7/8" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	6.30	0.68
			For >500, Deduct	-0.89	
05 15 16 00-0037	LF		1" Diameter, 6x19, Fiber Core (FC), Improved Plow Steel (IPS), Bright Finish, Wire Rope.....	8.02	0.95
			For >500, Deduct	-1.12	
<b>05 15 16 00-0038      6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope (05 15 16)</b>					
05 15 16 00-0039	LF		1/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.06	0.09
			For >500, Deduct	-0.18	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0040	LF		5/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.41	0.09
			<i>For &gt;500, Deduct</i>	-0.24	
05 15 16 00-0041	LF		3/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	1.73	0.17
			<i>For &gt;500, Deduct</i>	-0.28	
05 15 16 00-0042	LF		7/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.04	0.17
			<i>For &gt;500, Deduct</i>	-0.32	
05 15 16 00-0043	LF		1/2" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	2.57	0.26
			<i>For &gt;500, Deduct</i>	-0.40	
05 15 16 00-0044	LF		9/16" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.08	0.34
			<i>For &gt;500, Deduct</i>	-0.46	
05 15 16 00-0045	LF		5/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	3.85	0.34
			<i>For &gt;500, Deduct</i>	-0.58	
05 15 16 00-0046	LF		3/4" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	5.36	0.60
			<i>For &gt;500, Deduct</i>	-0.80	
05 15 16 00-0047	LF		7/8" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	7.03	0.68
			<i>For &gt;500, Deduct</i>	-1.04	
05 15 16 00-0048	LF		1" Diameter, 6x37, Fiber Core (FC), Extra Improved Plow Steel (EIPS), Bright Finish, Wire Rope.....	8.68	0.95
			<i>For &gt;500, Deduct</i>	-1.26	
<b>05 15 16 00-0049</b>			<b>6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small></b>		
05 15 16 00-0050	LF		3/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	1.96	0.17
			<i>For &gt;500, Deduct</i>	-0.33	
05 15 16 00-0051	LF		7/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.30	0.17
			<i>For &gt;500, Deduct</i>	-0.37	
05 15 16 00-0052	LF		1/2" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.70	0.26
			<i>For &gt;500, Deduct</i>	-0.42	
05 15 16 00-0053	LF		9/16" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	3.64	0.34
			<i>For &gt;500, Deduct</i>	-0.58	
05 15 16 00-0054	LF		5/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	4.02	0.34
			<i>For &gt;500, Deduct</i>	-0.62	
05 15 16 00-0055	LF		3/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.48	0.60
			<i>For &gt;500, Deduct</i>	-0.83	
05 15 16 00-0056	LF		7/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	7.05	0.68
			<i>For &gt;500, Deduct</i>	-1.04	
05 15 16 00-0057	LF		1" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	9.30	0.95
			<i>For &gt;500, Deduct</i>	-1.37	
05 15 16 00-0058	LF		1-1/8" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	11.26	1.20
			<i>For &gt;500, Deduct</i>	-1.65	
05 15 16 00-0059	LF		1-1/4" Diameter, 6x19, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	13.59	1.46
			<i>For &gt;500, Deduct</i>	-1.98	
<b>05 15 16 00-0060</b>			<b>6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope <small>(05 15 16)</small></b>		
05 15 16 00-0061	LF		3/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.01	0.17
			<i>For &gt;500, Deduct</i>	-0.34	
05 15 16 00-0062	LF		7/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.43	0.17
			<i>For &gt;500, Deduct</i>	-0.40	
05 15 16 00-0063	LF		1/2" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	2.89	0.26
			<i>For &gt;500, Deduct</i>	-0.46	
05 15 16 00-0064	LF		9/16" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	4.03	0.34
			<i>For &gt;500, Deduct</i>	-0.65	
05 15 16 00-0065	LF		5/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	4.09	0.34
			<i>For &gt;500, Deduct</i>	-0.63	
05 15 16 00-0066	LF		3/4" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	5.61	0.60
			<i>For &gt;500, Deduct</i>	-0.85	
05 15 16 00-0067	LF		7/8" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	7.45	0.68
			<i>For &gt;500, Deduct</i>	-1.12	
05 15 16 00-0068	LF		1" Diameter, 6x37, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Galvanized Finish, Wire Rope.....	9.43	0.95
			<i>For &gt;500, Deduct</i>	-1.40	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0069			<b>19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope (05 15 16)</b>		
05 15 16 00-0070	LF		1/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope ..... <i>For &gt;500, Deduct</i>	2.06 -0.38	0.09
05 15 16 00-0071	LF		5/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope ..... <i>For &gt;500, Deduct</i>	2.23 -0.40	0.09
05 15 16 00-0072	LF		3/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope ..... <i>For &gt;500, Deduct</i>	2.63 -0.46	0.17
05 15 16 00-0073	LF		7/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope ..... <i>For &gt;500, Deduct</i>	3.53 -0.62	0.17
05 15 16 00-0074	LF		1/2" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope ..... <i>For &gt;500, Deduct</i>	4.02 -0.71	0.17
05 15 16 00-0075	LF		9/16" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope ..... <i>For &gt;500, Deduct</i>	4.67 -0.78	0.34
05 15 16 00-0076	LF		5/8" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope ..... <i>For &gt;500, Deduct</i>	5.56 -0.93	0.34
05 15 16 00-0077	LF		3/4" Diameter, 19x7, Independent Wire Rope Core (IWRC), Extra Improved Plow Steel (EIPS), Bright Finish, Rotation Resistant Wire Rope ..... <i>For &gt;500, Deduct</i>	7.65 -1.27	0.51
05 15 16 00-0078			<b>7x7, Galvanized Finish, Aircraft Cable (05 15 16)</b>		
05 15 16 00-0079	LF		1/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable ..... <i>For &gt;500, Deduct</i>	0.24 -0.03	0.06
05 15 16 00-0080	LF		3/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable ..... <i>For &gt;500, Deduct</i>	0.27 -0.03	0.07
05 15 16 00-0081	LF		1/8" Diameter, 7x7, Galvanized Finish, Aircraft Cable ..... <i>For &gt;500, Deduct</i>	0.31 -0.04	0.08
05 15 16 00-0082	LF		5/32" Diameter, 7x7, Galvanized Finish, Aircraft Cable ..... <i>For &gt;500, Deduct</i>	0.36 -0.04	0.09
05 15 16 00-0083	LF		3/16" Diameter, 7x7, Galvanized Finish, Aircraft Cable ..... <i>For &gt;500, Deduct</i>	0.43 -0.05	0.09
05 15 16 00-0084			<b>7x19, Galvanized Finish, Aircraft Cable (05 15 16)</b>		
05 15 16 00-0085	LF		1/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable ..... <i>For &gt;500, Deduct</i>	0.42 -0.06	0.08
05 15 16 00-0086	LF		5/32" Diameter, 7x19, Galvanized Finish, Aircraft Cable ..... <i>For &gt;500, Deduct</i>	0.47 -0.07	0.09
05 15 16 00-0087	LF		3/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable ..... <i>For &gt;500, Deduct</i>	0.53 -0.07	0.09
05 15 16 00-0088	LF		1/4" Diameter, 7x19, Galvanized Finish, Aircraft Cable ..... <i>For &gt;500, Deduct</i>	0.62 -0.09	0.09
05 15 16 00-0089	LF		5/16" Diameter, 7x19, Galvanized Finish, Aircraft Cable ..... <i>For &gt;500, Deduct</i>	0.94 -0.14	0.09
05 15 16 00-0090	LF		3/8" Diameter, 7x19, Galvanized Finish, Aircraft Cable ..... <i>For &gt;500, Deduct</i>	1.26 -0.19	0.09
05 15 16 00-0091			<b>Heavy Duty, Galvanized Steel, Wire Rope Thimbles (05 15 16)</b>		
05 15 16 00-0092	EA		1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....	9.82	2.58
05 15 16 00-0093	EA		5/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....	10.58	2.58
05 15 16 00-0094	EA		3/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....	11.43	2.58
05 15 16 00-0095	EA		7/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....	13.76	2.58
05 15 16 00-0096	EA		1/2" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....	13.77	2.58
05 15 16 00-0097	EA		9/16" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....	13.77	2.58
05 15 16 00-0098	EA		5/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....	14.56	2.58
05 15 16 00-0099	EA		3/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....	25.42	3.95
05 15 16 00-0100	EA		7/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....	30.27	4.80
05 15 16 00-0101	EA		1" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....	52.73	7.89
05 15 16 00-0102	EA		1-1/8" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....	74.67	10.72
05 15 16 00-0103	EA		1-1/4" Diameter, Heavy Duty, Galvanized Steel, Wire Rope Thimble .....	74.67	10.72
05 15 16 00-0104			<b>Galvanized Steel, Wire Rope Clips (05 15 16)</b>		
05 15 16 00-0105	EA		1/8" Diameter, Galvanized Steel, Wire Rope Clip .....	11.53	2.58
05 15 16 00-0106	EA		3/16" Diameter, Galvanized Steel, Wire Rope Clip .....	11.71	2.58
05 15 16 00-0107	EA		1/4" Diameter, Galvanized Steel, Wire Rope Clip .....	12.96	2.58
05 15 16 00-0108	EA		5/16" Diameter, Galvanized Steel, Wire Rope Clip .....	13.15	2.58
05 15 16 00-0109	EA		3/8" Diameter, Galvanized Steel, Wire Rope Clip .....	13.43	2.58
05 15 16 00-0110	EA		7/16" Diameter, Galvanized Steel, Wire Rope Clip .....	16.11	2.58
05 15 16 00-0111	EA		1/2" Diameter, Galvanized Steel, Wire Rope Clip .....	16.32	2.58
05 15 16 00-0112	EA		9/16" Diameter, Galvanized Steel, Wire Rope Clip .....	18.34	2.58
05 15 16 00-0113	EA		5/8" Diameter, Galvanized Steel, Wire Rope Clip .....	18.61	2.58

**05 Metals****05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0114 EA 3/4" Diameter, Galvanized Steel, Wire Rope Clip.....	25.90	3.43
05 15 16 00-0115 EA 7/8" Diameter, Galvanized Steel, Wire Rope Clip.....	39.14	5.14
05 15 16 00-0116 EA 1" Diameter, Galvanized Steel, Wire Rope Clip.....	42.50	5.14
05 15 16 00-0117 EA 1-1/8" Diameter, Galvanized Steel, Wire Rope Clip.....	50.64	6.86
05 15 16 00-0118 EA 1-1/4" Diameter, Galvanized Steel, Wire Rope Clip.....	73.68	10.29
<b>05 15 16 00-0119 Steel, Open Swage Sockets (05 15 16)</b>		
05 15 16 00-0120 EA 1/4" Diameter, Steel, Open Swage Socket.....	42.28	2.58
05 15 16 00-0121 EA 5/16" Diameter, Steel, Open Swage Socket.....	65.64	2.58
05 15 16 00-0122 EA 3/8" Diameter, Steel, Open Swage Socket.....	69.04	3.43
05 15 16 00-0123 EA 7/16" Diameter, Steel, Open Swage Socket.....	83.18	4.29
05 15 16 00-0124 EA 1/2" Diameter, Steel, Open Swage Socket.....	83.18	4.29
05 15 16 00-0125 EA 9/16" Diameter, Steel, Open Swage Socket.....	127.48	9.43
05 15 16 00-0126 EA 5/8" Diameter, Steel, Open Swage Socket.....	127.48	9.43
05 15 16 00-0127 EA 3/4" Diameter, Steel, Open Swage Socket.....	172.87	18.01
05 15 16 00-0128 EA 7/8" Diameter, Steel, Open Swage Socket.....	234.85	25.73
05 15 16 00-0129 EA 1" Diameter, Steel, Open Swage Socket.....	337.01	39.45
05 15 16 00-0130 EA 1-1/8" Diameter, Steel, Open Swage Socket.....	461.13	61.74
05 15 16 00-0131 EA 1-1/4" Diameter, Steel, Open Swage Socket.....	537.15	71.17
<b>05 15 16 00-0132 Steel, Closed Swage Sockets (05 15 16)</b>		
05 15 16 00-0133 EA 1/4" Diameter, Steel, Closed Swage Socket.....	34.78	2.58
05 15 16 00-0134 EA 5/16" Diameter, Steel, Closed Swage Socket.....	45.69	2.58
05 15 16 00-0135 EA 3/8" Diameter, Steel, Closed Swage Socket.....	45.69	2.58
05 15 16 00-0136 EA 7/16" Diameter, Steel, Closed Swage Socket.....	57.67	3.43
05 15 16 00-0137 EA 1/2" Diameter, Steel, Closed Swage Socket.....	58.62	3.43
05 15 16 00-0138 EA 9/16" Diameter, Steel, Closed Swage Socket.....	83.36	6.00
05 15 16 00-0139 EA 5/8" Diameter, Steel, Closed Swage Socket.....	87.45	6.86
05 15 16 00-0140 EA 3/4" Diameter, Steel, Closed Swage Socket.....	111.62	11.15
05 15 16 00-0141 EA 7/8" Diameter, Steel, Closed Swage Socket.....	148.01	16.30
05 15 16 00-0142 EA 1" Diameter, Steel, Closed Swage Socket.....	211.43	22.29
05 15 16 00-0143 EA 1-1/8" Diameter, Steel, Closed Swage Socket.....	266.94	30.87
05 15 16 00-0144 EA 1-1/4" Diameter, Steel, Closed Swage Socket.....	373.14	48.02
<b>05 15 16 00-0145 Galvanized Steel, Open Spelter Sockets (05 15 16)</b>		
05 15 16 00-0146 EA 1/4" Galvanized Steel, Open Spelter Socket.....	68.14	2.58
05 15 16 00-0147 EA 5/16" Galvanized Steel, Open Spelter Socket.....	71.03	2.58
05 15 16 00-0148 EA 3/8" Galvanized Steel, Open Spelter Socket.....	71.03	2.58
05 15 16 00-0149 EA 7/16" Galvanized Steel, Open Spelter Socket.....	82.72	5.14
05 15 16 00-0150 EA 1/2" Galvanized Steel, Open Spelter Socket.....	82.72	5.14
05 15 16 00-0151 EA 9/16" Galvanized Steel, Open Spelter Socket.....	112.24	8.58
05 15 16 00-0152 EA 5/8" Galvanized Steel, Open Spelter Socket.....	112.24	8.58
05 15 16 00-0153 EA 3/4" Galvanized Steel, Open Spelter Socket.....	146.04	12.86
05 15 16 00-0154 EA 7/8" Galvanized Steel, Open Spelter Socket.....	222.17	21.44
05 15 16 00-0155 EA 1" Galvanized Steel, Open Spelter Socket.....	393.02	33.45
05 15 16 00-0156 EA 1-1/8" Galvanized Steel, Open Spelter Socket.....	489.17	54.02
05 15 16 00-0157 EA 1-1/4" Galvanized Steel, Open Spelter Socket.....	659.39	71.17
<b>05 15 16 00-0158 Galvanized Steel, Closed Spelter Sockets (05 15 16)</b>		
05 15 16 00-0159 EA 1/4" Galvanized Steel, Closed Spelter Socket.....	57.76	2.58
05 15 16 00-0160 EA 5/16" Galvanized Steel, Closed Spelter Socket.....	58.08	2.58
05 15 16 00-0161 EA 3/8" Galvanized Steel, Closed Spelter Socket.....	58.08	2.58
05 15 16 00-0162 EA 7/16" Galvanized Steel, Closed Spelter Socket.....	67.71	4.29
05 15 16 00-0163 EA 1/2" Galvanized Steel, Closed Spelter Socket.....	67.71	4.29
05 15 16 00-0164 EA 9/16" Galvanized Steel, Closed Spelter Socket.....	98.31	7.72
05 15 16 00-0165 EA 5/8" Galvanized Steel, Closed Spelter Socket.....	98.31	7.72
05 15 16 00-0166 EA 3/4" Galvanized Steel, Closed Spelter Socket.....	124.63	11.15
05 15 16 00-0167 EA 7/8" Galvanized Steel, Closed Spelter Socket.....	183.22	17.15
05 15 16 00-0168 EA 1" Galvanized Steel, Closed Spelter Socket.....	278.33	26.58
05 15 16 00-0169 EA 1-1/8" Galvanized Steel, Closed Spelter Socket.....	365.54	36.01
05 15 16 00-0170 EA 1-1/4" Galvanized Steel, Closed Spelter Socket.....	465.36	48.02
<b>05 15 16 00-0171 Forged Steel, Jaw And Jaw Turnbuckles (05 15 16)</b>		
05 15 16 00-0172 EA 1/4" x 4", Forged Steel, Jaw And Jaw Turnbuckle.....	40.95	2.58
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-4.86	
05 15 16 00-0173 EA 5/16" x 4-1/2", Forged Steel, Jaw And Jaw Turnbuckle.....	43.64	2.58
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-5.26	
05 15 16 00-0174 EA 3/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	48.63	2.58
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-6.01	
05 15 16 00-0175 EA 1/2" x 6", Forged Steel, Jaw And Jaw Turnbuckle.....	56.07	3.43
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-6.25	
05 15 16 00-0176 EA 1/2" x 9", Forged Steel, Jaw And Jaw Turnbuckle.....	73.31	4.29
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-8.32	
05 15 16 00-0177 EA 1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle.....	83.44	5.14
For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct	-9.42	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 15 16 00-0178	EA			5/8" x 6", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	87.31 -9.14	6.86
05 15 16 00-0179	EA			5/8" x 9", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	106.23 -11.65	6.86
05 15 16 00-0180	EA			5/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	119.81 -13.38	7.72
05 15 16 00-0181	EA			3/4" x 6", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	118.14 -12.25	9.43
05 15 16 00-0182	EA			3/4" x 9", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	136.07 -13.64	11.15
05 15 16 00-0183	EA			3/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	165.08 -17.41	12.01
05 15 16 00-0184	EA			3/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	198.68 -20.93	14.57
05 15 16 00-0185	EA			7/8" x 12", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	232.46 -22.62	20.58
05 15 16 00-0186	EA			7/8" x 18", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	280.29 -27.75	24.02
05 15 16 00-0187	EA			1" x 6", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	240.09 -23.76	20.58
05 15 16 00-0188	EA			1" x 12", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	280.77 -26.04	26.58
05 15 16 00-0189	EA			1" x 18", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	378.35 -36.96	33.45
05 15 16 00-0190	EA			1" x 24", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	426.78 -40.63	39.45
05 15 16 00-0191	EA			1-1/4" x 12", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	482.96 -43.86	48.02
05 15 16 00-0192	EA			1-1/4" x 18", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	576.20 -54.27	54.02
05 15 16 00-0193	EA			1-1/4" x 24", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	732.00 -73.05	61.74
05 15 16 00-0194	EA			1-1/2" x 12", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	733.23 -70.41	66.03
05 15 16 00-0195	EA			1-1/2" x 18", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	830.01 -73.05	85.76
05 15 16 00-0196	EA			1-1/2" x 24", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	1,411.54 -147.42	111.48
05 15 16 00-0197	EA			2" x 24", Forged Steel, Jaw And Jaw Turnbuckle ..... <i>For "Eye And Eye" Or "Hook and Hook" Turnbuckle, Deduct</i>	2,383.02 -228.83	214.38

**05 15 16 00-0198 Galvanized Steel, Drop Forged, Shoulder Eye Bolts** (05 15 16)

05 15 16 00-0199	EA	1/4" Diameter Thread, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	11.00
05 15 16 00-0200	EA	5/16" Diameter Thread, 7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	11.04
05 15 16 00-0201	EA	3/8" Diameter Thread, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	12.05
05 15 16 00-0202	EA	7/16" Diameter Thread, 1-3/32" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	14.25
05 15 16 00-0203	EA	1/2" Diameter Thread, 1-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	14.20
05 15 16 00-0204	EA	5/8" Diameter Thread, 1-3/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	18.56
05 15 16 00-0205	EA	3/4" Diameter Thread, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	21.50
05 15 16 00-0206	EA	7/8" Diameter Thread, 1-11/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	28.10
05 15 16 00-0207	EA	1" Diameter Thread, 1-13/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	36.21
05 15 16 00-0208	EA	1-1/8" Diameter Thread, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	51.21
05 15 16 00-0209	EA	1-1/4" Diameter Thread, 2-3/16" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	60.50
05 15 16 00-0210	EA	1-1/2" Diameter Thread, 2-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	106.09
05 15 16 00-0211	EA	1-3/4" Diameter Thread, 2-7/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	121.31
05 15 16 00-0212	EA	2" Diameter Thread, 3-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Shoulder Eye Bolt.....	149.03

**05 15 16 00-0213 Galvanized Steel, Drop Forged, Eye Bolts** (05 15 16)

05 15 16 00-0214	EA	1/4" Diameter Thread, 3" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	13.59
05 15 16 00-0215	EA	1/4" Diameter Thread, 4" Shank Length, 1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	12.66
05 15 16 00-0216	EA	5/16" Diameter Thread, 2-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	15.94
05 15 16 00-0217	EA	5/16" Diameter Thread, 4-1/4" Shank Length, 5/8" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	11.81
05 15 16 00-0218	EA	3/8" Diameter Thread, 2-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	14.74
05 15 16 00-0219	EA	3/8" Diameter Thread, 3" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	20.62
05 15 16 00-0220	EA	3/8" Diameter Thread, 4" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	20.17
05 15 16 00-0221	EA	3/8" Diameter Thread, 4-1/2" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	19.33
05 15 16 00-0222	EA	3/8" Diameter Thread, 5" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	17.66
05 15 16 00-0223	EA	3/8" Diameter Thread, 6" Shank Length, 3/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	18.22
05 15 16 00-0224	EA	1/2" Diameter Thread, 2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	16.68
05 15 16 00-0225	EA	1/2" Diameter Thread, 3" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	14.09
05 15 16 00-0226	EA	1/2" Diameter Thread, 3-1/4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	17.27
05 15 16 00-0227	EA	1/2" Diameter Thread, 4" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	22.36
05 15 16 00-0228	EA	1/2" Diameter Thread, 4-1/2" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	17.86
05 15 16 00-0229	EA	1/2" Diameter Thread, 6" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	26.59
05 15 16 00-0230	EA	1/2" Diameter Thread, 8" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	23.94
05 15 16 00-0231	EA	1/2" Diameter Thread, 10" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	22.27
05 15 16 00-0232	EA	1/2" Diameter Thread, 12" Shank Length, 1" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	25.51
05 15 16 00-0233	EA	5/8" Diameter Thread, 4" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	26.00
05 15 16 00-0234	EA	5/8" Diameter Thread, 4-1/2" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	23.60
05 15 16 00-0235	EA	5/8" Diameter Thread, 6" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	28.72

**05 Metals****05 10 Structural Metal Framing****05 15 Wire Rope Assemblies**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

05 15 16 00-0236	EA	5/8" Diameter Thread, 8" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	32.40	
05 15 16 00-0237	EA	5/8" Diameter Thread, 10" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	36.79	
05 15 16 00-0238	EA	5/8" Diameter Thread, 12" Shank Length, 1-1/4" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	31.15	
05 15 16 00-0239	EA	3/4" Diameter Thread, 4-1/2" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	30.88	
05 15 16 00-0240	EA	3/4" Diameter Thread, 6" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	31.50	
05 15 16 00-0241	EA	3/4" Diameter Thread, 8" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	34.47	
05 15 16 00-0242	EA	3/4" Diameter Thread, 10" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	36.93	
05 15 16 00-0243	EA	3/4" Diameter Thread, 12" Shank Length, 1-1/2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	42.42	
05 15 16 00-0244	EA	1" Diameter Thread, 8" Shank Length, 2" Inside Eye Diameter, Galvanized Steel, Drop Forged, Eye Bolt.....	55.12	

**05 15 19 Stainless Steel Wire Rope Assemblies (05 15)****05 15 19 00-0001 7x7, 304 Stainless Steel, Aircraft Cable (05 15 19)**

05 15 19 00-0002	LF	1/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.37	0.06
		<i>For &gt;500, Deduct</i>	-0.06	
05 15 19 00-0003	LF	3/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.49	0.07
		<i>For &gt;500, Deduct</i>	-0.08	
05 15 19 00-0004	LF	1/8" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.69	0.08
		<i>For &gt;500, Deduct</i>	-0.11	
05 15 19 00-0005	LF	5/32" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	0.95	0.09
		<i>For &gt;500, Deduct</i>	-0.16	
05 15 19 00-0006	LF	3/16" Diameter, 7x7, 304 Stainless Steel, Aircraft Cable.....	1.20	0.09
		<i>For &gt;500, Deduct</i>	-0.21	

**05 15 19 00-0007 7x19, 304 Stainless Steel, Aircraft Cable (05 15 19)**

05 15 19 00-0008	LF	1/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.81	0.08
		<i>For &gt;500, Deduct</i>	-0.14	
05 15 19 00-0009	LF	5/32" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	0.96	0.09
		<i>For &gt;500, Deduct</i>	-0.16	
05 15 19 00-0010	LF	3/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	1.12	0.09
		<i>For &gt;500, Deduct</i>	-0.19	
05 15 19 00-0011	LF	1/4" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	1.53	0.09
		<i>For &gt;500, Deduct</i>	-0.28	
05 15 19 00-0012	LF	5/16" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	2.32	0.09
		<i>For &gt;500, Deduct</i>	-0.42	
05 15 19 00-0013	LF	3/8" Diameter, 7x19, 304 Stainless Steel, Aircraft Cable.....	3.50	0.17
		<i>For &gt;500, Deduct</i>	-0.63	

**05 15 19 00-0014 7x7, 316 Stainless Steel, Aircraft Cable (05 15 19)**

05 15 19 00-0015	LF	1/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.37	0.06
		<i>For &gt;500, Deduct</i>	-0.06	
05 15 19 00-0016	LF	3/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.49	0.07
		<i>For &gt;500, Deduct</i>	-0.08	
05 15 19 00-0017	LF	1/8" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.69	0.08
		<i>For &gt;500, Deduct</i>	-0.11	
05 15 19 00-0018	LF	5/32" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	0.95	0.09
		<i>For &gt;500, Deduct</i>	-0.16	
05 15 19 00-0019	LF	3/16" Diameter, 7x7, 316 Stainless Steel, Aircraft Cable.....	1.20	0.09
		<i>For &gt;500, Deduct</i>	-0.21	

**05 15 19 00-0020 7x19, 316 Stainless Steel, Aircraft Cable (05 15 19)**

05 15 19 00-0021	LF	1/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....	0.81	0.08
		<i>For &gt;500, Deduct</i>	-0.14	
05 15 19 00-0022	LF	5/32" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....	0.96	0.09
		<i>For &gt;500, Deduct</i>	-0.16	
05 15 19 00-0023	LF	3/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....	1.12	0.09
		<i>For &gt;500, Deduct</i>	-0.19	
05 15 19 00-0024	LF	1/4" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....	1.53	0.09
		<i>For &gt;500, Deduct</i>	-0.28	
05 15 19 00-0025	LF	5/16" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....	2.32	0.09
		<i>For &gt;500, Deduct</i>	-0.42	
05 15 19 00-0026	LF	3/8" Diameter, 7x19, 316 Stainless Steel, Aircraft Cable.....	3.50	0.09
		<i>For &gt;500, Deduct</i>	-0.63	

**05 20 Metal Joists (05)**

Note: Includes all connecting bolts and welds.

**05 21 Steel Joist Framing (05 20)****05 21 19 Open Web Steel Joist Framing (05 21)**

05 21 19 00-0001	TON	H, J Or K Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging.....	2,244.81	146.52
		<i>For Welded Cross Bridging, Add</i>	183.15	
		<i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	196.12	
05 21 19 00-0002	TON	H, J Or K Open Web Joist, >30' To 50' Span, Steel, Horizontal Bridging.....	2,060.25	137.37
		<i>For Welded Cross Bridging, Add</i>	162.80	
		<i>For Shop Prime Paint Other Than Manufacturer's Standard, Add</i>	182.11	



<b>Metals</b>	<b>05</b>	<b>05</b>
<b>Metal Joists</b>	<b>05 20</b>	
<b>Steel Joist Framing</b>	<b>05 21</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 21 19 00-0003 TON LJ Or LH Open Web Joist, Up To 96' Span, Steel, Bolted Cross Bridging.....	2,486.84	137.37
For Welded Cross Bridging, Add	169.06	
For Shop Prime Paint Other Than Manufacturer's Standard, Add	230.80	
05 21 19 00-0004 TON DLJ Or DLH Open Web Joist, Up To 144' Span, Steel, Bolted Cross Bridging .....	2,828.76	137.37
For Welded Cross Bridging, Add	169.06	
For Shop Prime Paint Other Than Manufacturer's Standard, Add	271.83	
05 21 19 00-0005 TON CS Open Web Joist, Up To 30' Span, Steel, Horizontal Bridging .....	2,491.06	137.37
For Welded Cross Bridging, Add	183.15	
For Shop Prime Paint Other Than Manufacturer's Standard, Add	225.67	
05 21 19 00-0006 TON SLH Open Web Joist, Up To 200' Span, Steel, Bolted Cross Bridging.....	3,127.94	137.37
For Welded Cross Bridging, Add	169.06	
For Shop Prime Paint Other Than Manufacturer's Standard, Add	307.73	

### 05 30 Metal Decking <sup>(05)</sup>

Note: Includes all connecting bolts and welds.

### 05 31 Steel Decking <sup>(05 30)</sup>

See CSI section 03 30 00 00-0000 for concrete where required, 07 22 16 00-0001 for roof insulation.

#### 05 31 00 00-0001 Open Ribbed Galvanized Steel Form Deck <sup>(05 31)</sup>

05 31 00 00-0002 SF 9/16" Deep, 28 Gauge Open Ribbed Galvanized Steel Form Deck.....	1.84	
For Painted, Deduct	-0.06	
For Perforated Or Slotted, Add	0.06	
For Up To 100, Add	0.84	
For >100 To 500, Add	0.40	
For >500 To 1,500, Add	0.18	
05 31 00 00-0003 SF 9/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	1.95	
For Painted, Deduct	-0.06	
For Perforated Or Slotted, Add	0.06	
For Up To 100, Add	0.89	
For >100 To 500, Add	0.43	
For >500 To 1,500, Add	0.19	
05 31 00 00-0004 SF 9/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.16	
For Painted, Deduct	-0.06	
For Perforated Or Slotted, Add	0.06	
For Up To 100, Add	1.01	
For >100 To 500, Add	0.48	
For >500 To 1,500, Add	0.22	
05 31 00 00-0005 SF 9/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.35	
For Painted, Deduct	-0.07	
For Perforated Or Slotted, Add	0.07	
For Up To 100, Add	1.14	
For >100 To 500, Add	0.54	
For >500 To 1,500, Add	0.25	
05 31 00 00-0006 SF 15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.18	
For Painted, Deduct	-0.07	
For Perforated Or Slotted, Add	0.07	
For Up To 100, Add	0.91	
For >100 To 500, Add	0.45	
For >500 To 1,500, Add	0.19	
05 31 00 00-0007 SF 15/16" Deep, 25 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.28	
For Painted, Deduct	-0.07	
For Perforated Or Slotted, Add	0.07	
For Up To 100, Add	0.95	
For >100 To 500, Add	0.47	
For >500 To 1,500, Add	0.20	
05 31 00 00-0008 SF 15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.41	
For Painted, Deduct	-0.08	
For Perforated Or Slotted, Add	0.08	
For Up To 100, Add	1.03	
For >100 To 500, Add	0.51	
For >500 To 1,500, Add	0.22	
05 31 00 00-0009 SF 15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.59	
For Painted, Deduct	-0.08	
For Perforated Or Slotted, Add	0.08	
For Up To 100, Add	1.16	
For >100 To 500, Add	0.56	
For >500 To 1,500, Add	0.25	
05 31 00 00-0010 SF 1-15/16" Deep, 26 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.74	
For Painted, Deduct	-0.08	
For Perforated Or Slotted, Add	0.08	
For Up To 100, Add	1.22	
For >100 To 500, Add	0.59	
For >500 To 1,500, Add	0.26	
05 31 00 00-0011 SF 1-15/16" Deep, 24 Gauge Open Ribbed Galvanized Steel Form Deck.....	2.97	
For Painted, Deduct	-0.09	
For Perforated Or Slotted, Add	0.09	
For Up To 100, Add	1.28	
For >100 To 500, Add	0.62	
For >500 To 1,500, Add	0.27	

05	05	Metals
	05 30	Metal Decking
	05 31	Steel Decking



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 00 00-0012 SF 1-15/16" Deep, 22 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.39	
<i>For Painted, Deduct</i>	-0.11	
<i>For Perforated Or Slotted, Add</i>	0.11	
<i>For Up To 100, Add</i>	1.39	
<i>For &gt;100 To 500, Add</i>	0.69	
<i>For &gt;500 To 1,500, Add</i>	0.29	
05 31 00 00-0013 SF 1-15/16" Deep, 20 Gauge Open Ribbed Galvanized Steel Form Deck.....	3.76	
<i>For Painted, Deduct</i>	-0.12	
<i>For Perforated Or Slotted, Add</i>	0.12	
<i>For Up To 100, Add</i>	1.57	
<i>For &gt;100 To 500, Add</i>	0.78	
<i>For &gt;500 To 1,500, Add</i>	0.33	
<b>05 31 00 00-0014 Open Ribbed Galvanized Steel Deck <small>(05 31)</small></b>		
05 31 00 00-0015 SF 1" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck.....	2.42	
<i>For Painted, Deduct</i>	-0.07	
<i>For Perforated Or Slotted, Add</i>	0.07	
<i>For Site Installed Insulation Between Ribs, Add</i>	0.68	
<i>For Up To 100, Add</i>	1.11	
<i>For &gt;100 To 500, Add</i>	0.53	
<i>For &gt;500 To 1,500, Add</i>	0.24	
05 31 00 00-0016 SF 1" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	2.79	
<i>For Painted, Deduct</i>	-0.08	
<i>For Perforated Or Slotted, Add</i>	0.08	
<i>For Site Installed Insulation Between Ribs, Add</i>	0.78	
<i>For Up To 100, Add</i>	1.30	
<i>For &gt;100 To 500, Add</i>	0.62	
<i>For &gt;500 To 1,500, Add</i>	0.28	
05 31 00 00-0017 SF 1" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	3.47	
<i>For Painted, Deduct</i>	-0.11	
<i>For Perforated Or Slotted, Add</i>	0.11	
<i>For Site Installed Insulation Between Ribs, Add</i>	0.97	
<i>For Up To 100, Add</i>	1.58	
<i>For &gt;100 To 500, Add</i>	0.76	
<i>For &gt;500 To 1,500, Add</i>	0.34	
05 31 00 00-0018 SF 1-1/2" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck.....	2.69	
<i>For Painted, Deduct</i>	-0.08	
<i>For Perforated Or Slotted, Add</i>	0.08	
<i>For Site Installed Insulation Between Ribs, Add</i>	0.75	
<i>For Up To 100, Add</i>	1.25	
<i>For &gt;100 To 500, Add</i>	0.60	
<i>For &gt;500 To 1,500, Add</i>	0.27	
05 31 00 00-0019 SF 1-1/2" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	3.09	
<i>For Painted, Deduct</i>	-0.09	
<i>For Perforated Or Slotted, Add</i>	0.09	
<i>For Site Installed Insulation Between Ribs, Add</i>	0.87	
<i>For Up To 100, Add</i>	1.43	
<i>For &gt;100 To 500, Add</i>	0.68	
<i>For &gt;500 To 1,500, Add</i>	0.31	
05 31 00 00-0020 SF 1-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	3.85	
<i>For Painted, Deduct</i>	-0.12	
<i>For Perforated Or Slotted, Add</i>	0.12	
<i>For Site Installed Insulation Between Ribs, Add</i>	1.08	
<i>For Up To 100, Add</i>	1.76	
<i>For &gt;100 To 500, Add</i>	0.84	
<i>For &gt;500 To 1,500, Add</i>	0.38	
05 31 00 00-0021 SF 3" Deep, 22 Gauge Open Ribbed Galvanized Steel Deck.....	3.29	
<i>For Painted, Deduct</i>	-0.10	
<i>For Perforated Or Slotted, Add</i>	0.10	
<i>For Site Installed Insulation Between Ribs, Add</i>	0.91	
<i>For Up To 100, Add</i>	1.42	
<i>For &gt;100 To 500, Add</i>	0.69	
<i>For &gt;500 To 1,500, Add</i>	0.30	
05 31 00 00-0022 SF 3" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	3.81	
<i>For Painted, Deduct</i>	-0.12	
<i>For Perforated Or Slotted, Add</i>	0.12	
<i>For Site Installed Insulation Between Ribs, Add</i>	1.06	
<i>For Up To 100, Add</i>	1.61	
<i>For &gt;100 To 500, Add</i>	0.79	
<i>For &gt;500 To 1,500, Add</i>	0.34	
05 31 00 00-0023 SF 3" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	4.74	
<i>For Painted, Deduct</i>	-0.15	
<i>For Perforated Or Slotted, Add</i>	0.15	
<i>For Site Installed Insulation Between Ribs, Add</i>	1.31	
<i>For Up To 100, Add</i>	2.00	
<i>For &gt;100 To 500, Add</i>	0.98	
<i>For &gt;500 To 1,500, Add</i>	0.42	
05 31 00 00-0024 SF 3" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	5.93	
<i>For Painted, Deduct</i>	-0.19	
<i>For Perforated Or Slotted, Add</i>	0.19	
<i>For Site Installed Insulation Between Ribs, Add</i>	1.64	
<i>For Up To 100, Add</i>	2.45	
<i>For &gt;100 To 500, Add</i>	1.21	
<i>For &gt;500 To 1,500, Add</i>	0.52	



	<b>Metals</b>	<b>05</b>	
	Metal Decking	05 30	05
	Steel Decking	05 31	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 00 00-0025	SF		4-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	8.00	
			<i>For Painted, Deduct</i>	-0.31	
			<i>For Perforated Or Slotted, Add</i>	0.31	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.14	
			<i>For Up To 100, Add</i>	2.47	
			<i>For &gt;100 To 500, Add</i>	1.36	
			<i>For &gt;500 To 1,500, Add</i>	0.47	
05 31 00 00-0026	SF		4-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	10.07	
			<i>For Painted, Deduct</i>	-0.39	
			<i>For Perforated Or Slotted, Add</i>	0.39	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.69	
			<i>For Up To 100, Add</i>	3.04	
			<i>For &gt;100 To 500, Add</i>	1.69	
			<i>For &gt;500 To 1,500, Add</i>	0.57	
05 31 00 00-0027	SF		6" Deep, 20 Gauge Open Ribbed Galvanized Steel Deck.....	8.86	
			<i>For Painted, Deduct</i>	-0.36	
			<i>For Perforated Or Slotted, Add</i>	0.36	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.34	
			<i>For Up To 100, Add</i>	2.37	
			<i>For &gt;100 To 500, Add</i>	1.38	
			<i>For &gt;500 To 1,500, Add</i>	0.41	
05 31 00 00-0028	SF		6" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	9.52	
			<i>For Painted, Deduct</i>	-0.37	
			<i>For Perforated Or Slotted, Add</i>	0.37	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.53	
			<i>For Up To 100, Add</i>	2.81	
			<i>For &gt;100 To 500, Add</i>	1.57	
			<i>For &gt;500 To 1,500, Add</i>	0.52	
05 31 00 00-0029	SF		6" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	11.84	
			<i>For Painted, Deduct</i>	-0.47	
			<i>For Perforated Or Slotted, Add</i>	0.47	
			<i>For Site Installed Insulation Between Ribs, Add</i>	3.15	
			<i>For Up To 100, Add</i>	3.43	
			<i>For &gt;100 To 500, Add</i>	1.93	
			<i>For &gt;500 To 1,500, Add</i>	0.63	
05 31 00 00-0030	SF		7-1/2" Deep, 18 Gauge Open Ribbed Galvanized Steel Deck.....	10.51	
			<i>For Painted, Deduct</i>	-0.41	
			<i>For Perforated Or Slotted, Add</i>	0.41	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.80	
			<i>For Up To 100, Add</i>	3.09	
			<i>For &gt;100 To 500, Add</i>	1.73	
			<i>For &gt;500 To 1,500, Add</i>	0.57	
05 31 00 00-0031	SF		7-1/2" Deep, 16 Gauge Open Ribbed Galvanized Steel Deck.....	13.04	
			<i>For Painted, Deduct</i>	-0.52	
			<i>For Perforated Or Slotted, Add</i>	0.52	
			<i>For Site Installed Insulation Between Ribs, Add</i>	3.47	
			<i>For Up To 100, Add</i>	3.77	
			<i>For &gt;100 To 500, Add</i>	2.13	
			<i>For &gt;500 To 1,500, Add</i>	0.69	
05 31 00 00-0032			<b>Cellular Galvanized Steel Deck</b> <small>(05 31)</small>		
			Note: Cellular decking is made of a top ribbed sheet and a flat bottom sheet welded together to create hollow longitudinal cells within the panels.		
05 31 00 00-0033	SF		1" Deep, 22/18 Gauge Cellular Galvanized Steel Deck.....	7.09	
			<i>For Painted, Deduct</i>	-0.27	
			<i>For Perforated Or Slotted, Add</i>	0.27	
			<i>For Insulated Cells, Add</i>	1.21	
			<i>For Site Installed Insulation Between Ribs, Add</i>	1.90	
			<i>For Up To 100, Add</i>	2.27	
			<i>For &gt;100 To 500, Add</i>	1.23	
			<i>For &gt;500 To 1,500, Add</i>	0.43	
05 31 00 00-0034	SF		1" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	7.98	
			<i>For Painted, Deduct</i>	-0.28	
			<i>For Perforated Or Slotted, Add</i>	0.28	
			<i>For Insulated Cells, Add</i>	1.28	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.17	
			<i>For Up To 100, Add</i>	2.87	
			<i>For &gt;100 To 500, Add</i>	1.49	
			<i>For &gt;500 To 1,500, Add</i>	0.58	
05 31 00 00-0035	SF		1-1/2" Deep, 22/18 Gauge Cellular Galvanized Steel Deck.....	8.52	
			<i>For Painted, Deduct</i>	-0.34	
			<i>For Perforated Or Slotted, Add</i>	0.34	
			<i>For Insulated Cells, Add</i>	1.51	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.27	
			<i>For Up To 100, Add</i>	2.49	
			<i>For &gt;100 To 500, Add</i>	1.40	
			<i>For &gt;500 To 1,500, Add</i>	0.46	
05 31 00 00-0036	SF		1-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	9.49	
			<i>For Painted, Deduct</i>	-0.35	
			<i>For Perforated Or Slotted, Add</i>	0.35	
			<i>For Insulated Cells, Add</i>	1.59	
			<i>For Site Installed Insulation Between Ribs, Add</i>	2.56	
			<i>For Up To 100, Add</i>	3.12	
			<i>For &gt;100 To 500, Add</i>	1.67	
			<i>For &gt;500 To 1,500, Add</i>	0.60	

<b>05</b>	<b>Metals</b>
<b>05 30</b>	<b>Metal Decking</b>
<b>05 31</b>	<b>Steel Decking</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 31 00 00-0037 SF 3" Deep, 20/18 Gauge Cellular Galvanized Steel Deck.....	9.85	
<i>For Painted, Deduct</i>	-0.38	
<i>For Perforated Or Slotted, Add</i>	0.38	
<i>For Insulated Cells, Add</i>	1.72	
<i>For Site Installed Insulation Between Ribs, Add</i>	2.63	
<i>For Up To 100, Add</i>	2.98	
<i>For &gt;100 To 500, Add</i>	1.65	
<i>For &gt;500 To 1,500, Add</i>	0.56	
05 31 00 00-0038 SF 3" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	11.68	
<i>For Painted, Deduct</i>	-0.46	
<i>For Perforated Or Slotted, Add</i>	0.46	
<i>For Insulated Cells, Add</i>	2.06	
<i>For Site Installed Insulation Between Ribs, Add</i>	3.11	
<i>For Up To 100, Add</i>	3.45	
<i>For &gt;100 To 500, Add</i>	1.93	
<i>For &gt;500 To 1,500, Add</i>	0.64	
05 31 00 00-0039 SF 3" Deep, 18/16 Gauge Cellular Galvanized Steel Deck.....	13.04	
<i>For Painted, Deduct</i>	-0.52	
<i>For Perforated Or Slotted, Add</i>	0.52	
<i>For Insulated Cells, Add</i>	2.32	
<i>For Site Installed Insulation Between Ribs, Add</i>	3.47	
<i>For Up To 100, Add</i>	3.77	
<i>For &gt;100 To 500, Add</i>	2.13	
<i>For &gt;500 To 1,500, Add</i>	0.69	
05 31 00 00-0040 SF 3" Deep, 16/16 Gauge Cellular Galvanized Steel Deck.....	14.24	
<i>For Painted, Deduct</i>	-0.56	
<i>For Perforated Or Slotted, Add</i>	0.56	
<i>For Insulated Cells, Add</i>	2.51	
<i>For Site Installed Insulation Between Ribs, Add</i>	3.79	
<i>For Up To 100, Add</i>	4.21	
<i>For &gt;100 To 500, Add</i>	2.35	
<i>For &gt;500 To 1,500, Add</i>	0.78	
05 31 00 00-0041 SF 4-1/2" Deep, 20/18 Gauge Cellular Galvanized Steel Deck.....	14.45	
<i>For Painted, Deduct</i>	-0.61	
<i>For Perforated Or Slotted, Add</i>	0.61	
<i>For Insulated Cells, Add</i>	2.76	
<i>For Site Installed Insulation Between Ribs, Add</i>	3.78	
<i>For Up To 100, Add</i>	3.41	
<i>For &gt;100 To 500, Add</i>	2.10	
<i>For &gt;500 To 1,500, Add</i>	0.55	
05 31 00 00-0042 SF 4-1/2" Deep, 18/18 Gauge Cellular Galvanized Steel Deck.....	15.54	
<i>For Painted, Deduct</i>	-0.65	
<i>For Perforated Or Slotted, Add</i>	0.65	
<i>For Insulated Cells, Add</i>	2.92	
<i>For Site Installed Insulation Between Ribs, Add</i>	4.08	
<i>For Up To 100, Add</i>	3.88	
<i>For &gt;100 To 500, Add</i>	2.33	
<i>For &gt;500 To 1,500, Add</i>	0.65	
05 31 00 00-0043 SF 4-1/2" Deep, 18/16 Gauge Cellular Galvanized Steel Deck.....	16.46	
<i>For Painted, Deduct</i>	-0.68	
<i>For Perforated Or Slotted, Add</i>	0.68	
<i>For Insulated Cells, Add</i>	3.08	
<i>For Site Installed Insulation Between Ribs, Add</i>	4.32	
<i>For Up To 100, Add</i>	4.15	
<i>For &gt;100 To 500, Add</i>	2.48	
<i>For &gt;500 To 1,500, Add</i>	0.70	
05 31 00 00-0044 SF 4-1/2" Deep, 16/16 Gauge Cellular Galvanized Steel Deck.....	17.57	
<i>For Painted, Deduct</i>	-0.73	
<i>For Perforated Or Slotted, Add</i>	0.73	
<i>For Insulated Cells, Add</i>	3.28	
<i>For Site Installed Insulation Between Ribs, Add</i>	4.62	
<i>For Up To 100, Add</i>	4.44	
<i>For &gt;100 To 500, Add</i>	2.65	
<i>For &gt;500 To 1,500, Add</i>	0.75	

## 05 36 Composite Metal Decking (05 30)

See CSI section 03 30 00 00-0000 for concrete.

### 05 36 00 00-0001 Composite Open Ribbed Galvanized Steel Deck (05 36)

Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab.

05 36 00 00-0002 SF 1-1/2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	2.76	
<i>For Painted, Deduct</i>	-0.09	
<i>For Perforated Or Slotted, Add</i>	0.09	
<i>For Up To 100, Add</i>	1.22	
<i>For &gt;100 To 500, Add</i>	0.59	
<i>For &gt;500 To 1,500, Add</i>	0.26	
05 36 00 00-0003 SF 1-1/2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	2.96	
<i>For Painted, Deduct</i>	-0.09	
<i>For Perforated Or Slotted, Add</i>	0.09	
<i>For Up To 100, Add</i>	1.35	
<i>For &gt;100 To 500, Add</i>	0.65	
<i>For &gt;500 To 1,500, Add</i>	0.29	



<b>Metals</b>	<b>05</b>
<b>Metal Decking</b>	<b>05 30</b>
<b>Composite Metal Decking</b>	<b>05 36</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0004 SF 1-1/2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.35	
<i>For Painted, Deduct</i>	-0.10	
<i>For Perforated Or Slotted, Add</i>	0.10	
<i>For Up To 100, Add</i>	1.64	
<i>For &gt;100 To 500, Add</i>	0.77	
<i>For &gt;500 To 1,500, Add</i>	0.36	
05 36 00 00-0005 SF 1-1/2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.69	
<i>For Painted, Deduct</i>	-0.10	
<i>For Perforated Or Slotted, Add</i>	0.10	
<i>For Up To 100, Add</i>	1.93	
<i>For &gt;100 To 500, Add</i>	0.89	
<i>For &gt;500 To 1,500, Add</i>	0.43	
05 36 00 00-0006 SF 2" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	2.96	
<i>For Painted, Deduct</i>	-0.09	
<i>For Perforated Or Slotted, Add</i>	0.09	
<i>For Up To 100, Add</i>	1.35	
<i>For &gt;100 To 500, Add</i>	0.65	
<i>For &gt;500 To 1,500, Add</i>	0.29	
05 36 00 00-0007 SF 2" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.21	
<i>For Painted, Deduct</i>	-0.10	
<i>For Perforated Or Slotted, Add</i>	0.10	
<i>For Up To 100, Add</i>	1.48	
<i>For &gt;100 To 500, Add</i>	0.71	
<i>For &gt;500 To 1,500, Add</i>	0.32	
05 36 00 00-0008 SF 2" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.59	
<i>For Painted, Deduct</i>	-0.10	
<i>For Perforated Or Slotted, Add</i>	0.10	
<i>For Up To 100, Add</i>	1.77	
<i>For &gt;100 To 500, Add</i>	0.83	
<i>For &gt;500 To 1,500, Add</i>	0.39	
05 36 00 00-0009 SF 2" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.96	
<i>For Painted, Deduct</i>	-0.11	
<i>For Perforated Or Slotted, Add</i>	0.11	
<i>For Up To 100, Add</i>	2.07	
<i>For &gt;100 To 500, Add</i>	0.95	
<i>For &gt;500 To 1,500, Add</i>	0.47	
05 36 00 00-0010 SF 3" Deep, 22 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.11	
<i>For Painted, Deduct</i>	-0.10	
<i>For Perforated Or Slotted, Add</i>	0.10	
<i>For Up To 100, Add</i>	1.40	
<i>For &gt;100 To 500, Add</i>	0.67	
<i>For &gt;500 To 1,500, Add</i>	0.30	
05 36 00 00-0011 SF 3" Deep, 20 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.35	
<i>For Painted, Deduct</i>	-0.10	
<i>For Perforated Or Slotted, Add</i>	0.10	
<i>For Up To 100, Add</i>	1.57	
<i>For &gt;100 To 500, Add</i>	0.75	
<i>For &gt;500 To 1,500, Add</i>	0.34	
05 36 00 00-0012 SF 3" Deep, 18 Gauge Composite Open Ribbed Galvanized Steel Deck.....	3.79	
<i>For Painted, Deduct</i>	-0.11	
<i>For Perforated Or Slotted, Add</i>	0.11	
<i>For Up To 100, Add</i>	1.90	
<i>For &gt;100 To 500, Add</i>	0.89	
<i>For &gt;500 To 1,500, Add</i>	0.42	
05 36 00 00-0013 SF 3" Deep, 16 Gauge Composite Open Ribbed Galvanized Steel Deck.....	4.27	
<i>For Painted, Deduct</i>	-0.11	
<i>For Perforated Or Slotted, Add</i>	0.11	
<i>For Up To 100, Add</i>	2.25	
<i>For &gt;100 To 500, Add</i>	1.03	
<i>For &gt;500 To 1,500, Add</i>	0.51	
05 36 00 00-0014 Composite Cellular Galvanized Steel Deck <small>(05 36)</small>		
Note: Composite decking has rolled-in embossments or ridges designed to interlock with the concrete slab. Cellular decking is made of a top ribbed sheet and a bottom flat sheet welded together to create hollow longitudinal cells within the panels.		
05 36 00 00-0015 SF 1-1/2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	5.06	
<i>For Painted, Deduct</i>	-0.16	
<i>For Perforated Or Slotted, Add</i>	0.16	
<i>For Insulated Cells, Add</i>	0.71	
<i>For Up To 100, Add</i>	2.22	
<i>For &gt;100 To 500, Add</i>	1.08	
<i>For &gt;500 To 1,500, Add</i>	0.48	
05 36 00 00-0016 SF 1-1/2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	5.42	
<i>For Painted, Deduct</i>	-0.17	
<i>For Perforated Or Slotted, Add</i>	0.17	
<i>For Insulated Cells, Add</i>	0.75	
<i>For Up To 100, Add</i>	2.43	
<i>For &gt;100 To 500, Add</i>	1.17	
<i>For &gt;500 To 1,500, Add</i>	0.53	
05 36 00 00-0017 SF 1-1/2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	5.50	
<i>For Painted, Deduct</i>	-0.17	
<i>For Perforated Or Slotted, Add</i>	0.17	
<i>For Insulated Cells, Add</i>	0.75	
<i>For Up To 100, Add</i>	2.51	
<i>For &gt;100 To 500, Add</i>	1.20	
<i>For &gt;500 To 1,500, Add</i>	0.55	

**05 Metals****05 30 Metal Decking****05 36 Composite Metal Decking**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0018 SF 1-1/2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	5.85	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Insulated Cells, Add	0.77	
For Up To 100, Add	2.75	
For >100 To 500, Add	1.31	
For >500 To 1,500, Add	0.60	
05 36 00 00-0019 SF 1-1/2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	6.29	
For Painted, Deduct	-0.18	
For Perforated Or Slotted, Add	0.18	
For Insulated Cells, Add	0.83	
For Up To 100, Add	2.99	
For >100 To 500, Add	1.42	
For >500 To 1,500, Add	0.66	
05 36 00 00-0020 SF 1-1/2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	6.37	
For Painted, Deduct	-0.18	
For Perforated Or Slotted, Add	0.18	
For Insulated Cells, Add	0.83	
For Up To 100, Add	3.07	
For >100 To 500, Add	1.45	
For >500 To 1,500, Add	0.68	
05 36 00 00-0021 SF 1-1/2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	6.73	
For Painted, Deduct	-0.19	
For Perforated Or Slotted, Add	0.19	
For Insulated Cells, Add	0.85	
For Up To 100, Add	3.32	
For >100 To 500, Add	1.56	
For >500 To 1,500, Add	0.74	
05 36 00 00-0022 SF 2" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	5.24	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Insulated Cells, Add	0.72	
For Up To 100, Add	2.34	
For >100 To 500, Add	1.13	
For >500 To 1,500, Add	0.51	
05 36 00 00-0023 SF 2" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	5.54	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Insulated Cells, Add	0.76	
For Up To 100, Add	2.52	
For >100 To 500, Add	1.21	
For >500 To 1,500, Add	0.55	
05 36 00 00-0024 SF 2" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	5.62	
For Painted, Deduct	-0.17	
For Perforated Or Slotted, Add	0.17	
For Insulated Cells, Add	0.76	
For Up To 100, Add	2.60	
For >100 To 500, Add	1.24	
For >500 To 1,500, Add	0.57	
05 36 00 00-0025 SF 2" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	6.05	
For Painted, Deduct	-0.18	
For Perforated Or Slotted, Add	0.18	
For Insulated Cells, Add	0.80	
For Up To 100, Add	2.86	
For >100 To 500, Add	1.36	
For >500 To 1,500, Add	0.63	
05 36 00 00-0026 SF 2" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	6.41	
For Painted, Deduct	-0.19	
For Perforated Or Slotted, Add	0.19	
For Insulated Cells, Add	0.83	
For Up To 100, Add	3.07	
For >100 To 500, Add	1.45	
For >500 To 1,500, Add	0.68	
05 36 00 00-0027 SF 2" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	6.53	
For Painted, Deduct	-0.19	
For Perforated Or Slotted, Add	0.19	
For Insulated Cells, Add	0.83	
For Up To 100, Add	3.19	
For >100 To 500, Add	1.50	
For >500 To 1,500, Add	0.71	
05 36 00 00-0028 SF 2" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	6.90	
For Painted, Deduct	-0.19	
For Perforated Or Slotted, Add	0.19	
For Insulated Cells, Add	0.87	
For Up To 100, Add	3.41	
For >100 To 500, Add	1.60	
For >500 To 1,500, Add	0.76	
05 36 00 00-0029 SF 3" Deep, 20/20 Gauge Composite Cellular Galvanized Steel Deck.....	5.26	
For Painted, Deduct	-0.16	
For Perforated Or Slotted, Add	0.16	
For Insulated Cells, Add	0.73	
For Up To 100, Add	2.34	
For >100 To 500, Add	1.13	
For >500 To 1,500, Add	0.51	





	<b>Metals</b>	<b>05</b>
	<b>Metal Decking</b>	<b>05 30</b>
	<b>Composite Metal Decking</b>	<b>05 36</b>

05

MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 36 00 00-0030	SF 3" Deep, 20/18 Gauge Composite Cellular Galvanized Steel Deck.....	5.58	
	<i>For Painted, Deduct</i>	-0.17	
	<i>For Perforated Or Slotted, Add</i>	0.17	
	<i>For Insulated Cells, Add</i>	0.76	
	<i>For Up To 100, Add</i>	2.56	
	<i>For &gt;100 To 500, Add</i>	1.22	
	<i>For &gt;500 To 1,500, Add</i>	0.56	
05 36 00 00-0031	SF 3" Deep, 18/20 Gauge Composite Cellular Galvanized Steel Deck.....	5.69	
	<i>For Painted, Deduct</i>	-0.17	
	<i>For Perforated Or Slotted, Add</i>	0.17	
	<i>For Insulated Cells, Add</i>	0.76	
	<i>For Up To 100, Add</i>	2.67	
	<i>For &gt;100 To 500, Add</i>	1.27	
	<i>For &gt;500 To 1,500, Add</i>	0.58	
05 36 00 00-0032	SF 3" Deep, 18/18 Gauge Composite Cellular Galvanized Steel Deck.....	6.11	
	<i>For Painted, Deduct</i>	-0.18	
	<i>For Perforated Or Slotted, Add</i>	0.18	
	<i>For Insulated Cells, Add</i>	0.80	
	<i>For Up To 100, Add</i>	2.90	
	<i>For &gt;100 To 500, Add</i>	1.37	
	<i>For &gt;500 To 1,500, Add</i>	0.64	
05 36 00 00-0033	SF 3" Deep, 18/16 Gauge Composite Cellular Galvanized Steel Deck.....	6.51	
	<i>For Painted, Deduct</i>	-0.19	
	<i>For Perforated Or Slotted, Add</i>	0.19	
	<i>For Insulated Cells, Add</i>	0.85	
	<i>For Up To 100, Add</i>	3.12	
	<i>For &gt;100 To 500, Add</i>	1.47	
	<i>For &gt;500 To 1,500, Add</i>	0.69	
05 36 00 00-0034	SF 3" Deep, 16/18 Gauge Composite Cellular Galvanized Steel Deck.....	6.67	
	<i>For Painted, Deduct</i>	-0.19	
	<i>For Perforated Or Slotted, Add</i>	0.19	
	<i>For Insulated Cells, Add</i>	0.85	
	<i>For Up To 100, Add</i>	3.28	
	<i>For &gt;100 To 500, Add</i>	1.54	
	<i>For &gt;500 To 1,500, Add</i>	0.73	
05 36 00 00-0035	SF 3" Deep, 16/16 Gauge Composite Cellular Galvanized Steel Deck.....	6.98	
	<i>For Painted, Deduct</i>	-0.19	
	<i>For Perforated Or Slotted, Add</i>	0.19	
	<i>For Insulated Cells, Add</i>	0.87	
	<i>For Up To 100, Add</i>	3.49	
	<i>For &gt;100 To 500, Add</i>	1.63	
	<i>For &gt;500 To 1,500, Add</i>	0.78	

**05 36 00 00-0036 Non-Cellular, Composite Deck, Galvanized (05 36)**

05 36 00 00-0037	SF 1" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular.....	3.71	
05 36 00 00-0038	SF 1" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular.....	3.07	
05 36 00 00-0039	SF 1" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular.....	2.58	
05 36 00 00-0040	SF 1" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular.....	2.25	
05 36 00 00-0041	SF 1-1/2" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular.....	4.08	
05 36 00 00-0042	SF 1-1/2" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular.....	3.34	
05 36 00 00-0043	SF 1-1/2" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular.....	2.80	
05 36 00 00-0044	SF 1-1/2" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular.....	2.43	
05 36 00 00-0045	SF 3" Deep x 16 Gauge Composite Metal Deck Galvanized, Non Cellular.....	4.72	
05 36 00 00-0046	SF 3" Deep x 18 Gauge Composite Metal Deck Galvanized, Non Cellular.....	3.82	
05 36 00 00-0047	SF 3" Deep x 20 Gauge Composite Metal Deck Galvanized, Non Cellular.....	3.22	
05 36 00 00-0048	SF 3" Deep x 22 Gauge Composite Metal Deck Galvanized, Non Cellular.....	2.93	

**05 40 Cold-Formed Metal Framing (05)**

Note: Includes all connecting bolts and welds.

**05 41 Structural Metal Stud Framing (05 40)**

Note: Includes all necessary framing studs, bridging, fasteners necessary to attach to floors, walls, ceilings and a metal stiffener at half height. Per SF of wall area measures one side. Do not deduct for openings of less than 25 SF when calculating total wall square footage.

**05 41 00 00-0001 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners (05 41)**

05 41 00 00-0002	SF 2-1/2" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	2.96	0.84
	<i>For Walls &gt;10' High, Add</i>	0.59	
	<i>For Curved Wall, Add</i>	0.59	
	<i>For Up To 200, Add</i>	0.99	
	<i>For &gt;200 To 500, Add</i>	0.49	
	<i>For 12" On Center, Add</i>	0.49	
	<i>For 24" On Center, Deduct</i>	-0.49	
05 41 00 00-0003	SF 3-5/8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	3.23	0.84
	<i>For Walls &gt;10' High, Add</i>	0.65	
	<i>For Curved Wall, Add</i>	0.62	
	<i>For Up To 200, Add</i>	1.06	
	<i>For &gt;200 To 500, Add</i>	0.53	
	<i>For 12" On Center, Add</i>	0.54	
	<i>For 24" On Center, Deduct</i>	-0.54	

<b>05</b>	<b>05 Metals</b>
	<b>05 40 Cold-Formed Metal Framing</b>
	<b>05 41 Structural Metal Stud Framing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 41 00 00-0004 SF 4" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	3.36	0.84
<i>For Walls &gt;10' High, Add</i>	0.67	
<i>For Curved Wall, Add</i>	0.65	
<i>For Up To 200, Add</i>	1.10	
<i>For &gt;200 To 500, Add</i>	0.55	
<i>For 12" On Center, Add</i>	0.56	
<i>For 24" On Center, Deduct</i>	-0.56	
05 41 00 00-0005 SF 6" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	3.97	0.94
<i>For Walls &gt;10' High, Add</i>	0.79	
<i>For Curved Wall, Add</i>	0.68	
<i>For Up To 200, Add</i>	1.24	
<i>For &gt;200 To 500, Add</i>	0.62	
<i>For 12" On Center, Add</i>	0.68	
<i>For 24" On Center, Deduct</i>	-0.68	
05 41 00 00-0006 SF 8" Width, 16" On Center, 18 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	4.34	1.03
<i>For Walls &gt;10' High, Add</i>	0.87	
<i>For Curved Wall, Add</i>	0.71	
<i>For Up To 200, Add</i>	1.34	
<i>For &gt;200 To 500, Add</i>	0.67	
<i>For 12" On Center, Add</i>	0.75	
<i>For 24" On Center, Deduct</i>	-0.75	
<b>05 41 00 00-0007 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners</b> <small>(05 41)</small>		
05 41 00 00-0008 SF 2-1/2" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....	3.16	0.84
<i>For Walls &gt;10' High, Add</i>	0.63	
<i>For Curved Wall, Add</i>	0.62	
<i>For Up To 200, Add</i>	1.05	
<i>For &gt;200 To 500, Add</i>	0.52	
<i>For 12" On Center, Add</i>	0.53	
<i>For 24" On Center, Deduct</i>	-0.53	
05 41 00 00-0009 SF 3-5/8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....	3.51	0.85
<i>For Walls &gt;10' High, Add</i>	0.70	
<i>For Curved Wall, Add</i>	0.65	
<i>For Up To 200, Add</i>	1.14	
<i>For &gt;200 To 500, Add</i>	0.57	
<i>For 12" On Center, Add</i>	0.59	
<i>For 24" On Center, Deduct</i>	-0.59	
05 41 00 00-0010 SF 4" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	3.68	0.85
<i>For Walls &gt;10' High, Add</i>	0.74	
<i>For Curved Wall, Add</i>	0.68	
<i>For Up To 200, Add</i>	1.19	
<i>For &gt;200 To 500, Add</i>	0.59	
<i>For 12" On Center, Add</i>	0.62	
<i>For 24" On Center, Deduct</i>	-0.62	
05 41 00 00-0011 SF 6" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	4.37	1.03
<i>For Walls &gt;10' High, Add</i>	0.87	
<i>For Curved Wall, Add</i>	0.71	
<i>For Up To 200, Add</i>	1.35	
<i>For &gt;200 To 500, Add</i>	0.68	
<i>For 12" On Center, Add</i>	0.76	
<i>For 24" On Center, Deduct</i>	-0.76	
05 41 00 00-0012 SF 8" Width, 16" On Center, 16 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	4.73	1.12
<i>For Walls &gt;10' High, Add</i>	0.95	
<i>For Curved Wall, Add</i>	0.75	
<i>For Up To 200, Add</i>	1.44	
<i>For &gt;200 To 500, Add</i>	0.72	
<i>For 12" On Center, Add</i>	0.82	
<i>For 24" On Center, Deduct</i>	-0.82	
<b>05 41 00 00-0013 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners</b> <small>(05 41)</small>		
05 41 00 00-0014 SF 3-5/8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners .....	4.18	1.17
<i>For Walls &gt;10' High, Add</i>	0.84	
<i>For Curved Wall, Add</i>	0.78	
<i>For Up To 200, Add</i>	1.36	
<i>For &gt;200 To 500, Add</i>	0.68	
<i>For 12" On Center, Add</i>	0.71	
<i>For 24" On Center, Deduct</i>	-0.71	
05 41 00 00-0015 SF 4" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	4.28	1.20
<i>For Walls &gt;10' High, Add</i>	0.86	
<i>For Curved Wall, Add</i>	0.80	
<i>For Up To 200, Add</i>	1.39	
<i>For &gt;200 To 500, Add</i>	0.69	
<i>For 12" On Center, Add</i>	0.72	
<i>For 24" On Center, Deduct</i>	-0.72	
05 41 00 00-0016 SF 6" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.04	1.26
<i>For Walls &gt;10' High, Add</i>	1.01	
<i>For Curved Wall, Add</i>	0.84	
<i>For Up To 200, Add</i>	1.57	
<i>For &gt;200 To 500, Add</i>	0.78	
<i>For 12" On Center, Add</i>	0.87	
<i>For 24" On Center, Deduct</i>	-0.87	



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 41 00 00-0017	SF	8" Width, 16" On Center, 14 Gauge, Load Bearing, Structural Metal Stud Framing With Tracks And Runners.....	5.45	1.32
		<i>For Walls &gt;10' High, Add</i>	1.09	
		<i>For Curved Wall, Add</i>	0.88	
		<i>For Up To 200, Add</i>	1.67	
		<i>For &gt;200 To 500, Add</i>	0.84	
		<i>For 12" On Center, Add</i>	0.94	
		<i>For 24" On Center, Deduct</i>	-0.94	
<b>05 42 Cold-Formed Metal Joist Framing (05 40)</b>				
<b>05 42 33 Cold-Formed Metal Joist Framing (05 42)</b>				
<b>05 42 33 00-0001 Steel Joists, 20 Gauge (05 42 33)</b>				
05 42 33 00-0002	LF	5-1/2" - 20 Gauge Steel Joists .....	5.53	2.02
05 42 33 00-0003	LF	6" - 20 Gauge Steel Joists .....	6.31	2.53
05 42 33 00-0004	LF	7-1/4" - 20 Gauge Steel Joists .....	6.82	2.78
05 42 33 00-0005	LF	8" - 20 Gauge Steel Joists .....	7.50	2.96
<b>05 42 33 00-0006 Steel Joists, 18 Gauge (05 42 33)</b>				
05 42 33 00-0007	LF	5-1/2" - 18 Gauge Steel Joists .....	6.14	2.25
05 42 33 00-0008	LF	6" - 18 Gauge Steel Joists .....	7.01	2.82
05 42 33 00-0009	LF	7-1/4" - 18 Gauge Steel Joists .....	7.60	3.09
05 42 33 00-0010	LF	8" - 18 Gauge Steel Joists .....	7.91	3.28
<b>05 42 33 00-0011 Steel Joists, 16 Gauge (05 42 33)</b>				
05 42 33 00-0012	LF	7-1/4" - 16 Gauge Steel Joists .....	8.02	3.11
05 42 33 00-0013	LF	8" - 16 Gauge Steel Joists .....	8.47	3.28
<b>05 42 33 00-0014 Steel Joists, 14 Gauge (05 42 33)</b>				
05 42 33 00-0015	LF	9-1/4" - 14 Gauge Steel Joists .....	9.22	3.28
05 42 33 00-0016	LF	11-1/2" - 14 Gauge Steel Joists .....	9.91	3.46
<b>05 42 33 00-0017 Steel Joists, 12 Gauge (05 42 33)</b>				
05 42 33 00-0018	LF	9-1/4" - 12 Gauge Steel Joists .....	10.70	3.62
05 42 33 00-0019	LF	11-1/2" - 12 Gauge Steel Joists .....	11.58	3.82
<b>05 42 33 00-0020 Steel Joists, 10 Gauge (05 42 33)</b>				
05 42 33 00-0021	LF	9-1/4" - 10 Gauge Steel Joists .....	12.24	3.98
05 42 33 00-0022	LF	11-1/2" - 10 Gauge Steel Joists .....	13.31	4.19
<b>05 42 33 00-0023 Steel Joists, 8 Gauge (05 42 33)</b>				
05 42 33 00-0024	LF	9-1/4" - 8 Gauge Steel Joists .....	13.84	4.38
05 42 33 00-0025	LF	11-1/2" - 8 Gauge Steel Joists .....	15.06	4.61
<b>05 43 Slotted Channel Framing (05 40)</b>				
<b>05 43 00 00-0001 Unistrut Channel (05 43)</b>				
Note: Excludes fasteners and accessories.				
<b>05 43 00 00-0002 Steel Unistrut Channel (05 43 00 00-0001)</b>				
05 43 00 00-0003	LF	1-5/8" Wide x 1-5/8" High, 12 Gauge, Steel Unistrut Channel .....	7.54	1.93
		<i>For Galvanizing, Add</i>	0.62	
		<i>For Powder Coating, Add</i>	0.55	
05 43 00 00-0004	LF	1-5/8" Wide x 1-3/8" High, 12 Gauge, Steel Unistrut Channel .....	7.72	1.93
		<i>For Galvanizing, Add</i>	0.65	
		<i>For Powder Coating, Add</i>	0.58	
05 43 00 00-0005	LF	1-5/8" Wide x 13/16" High, 12 Gauge, Steel Unistrut Channel .....	7.99	1.93
		<i>For Galvanizing, Add</i>	0.70	
		<i>For Powder Coating, Add</i>	0.62	
05 43 00 00-0006	LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, Steel Unistrut Channel .....	7.18	1.93
		<i>For Galvanizing, Add</i>	0.56	
		<i>For Powder Coating, Add</i>	0.50	
05 43 00 00-0007	LF	1-5/8" Wide x 13/16" High, 14 Gauge, Steel Unistrut Channel .....	6.41	1.93
		<i>For Galvanizing, Add</i>	0.43	
		<i>For Powder Coating, Add</i>	0.38	
<b>05 43 00 00-0008 Stainless Steel Unistrut Channel (05 43 00 00-0001)</b>				
<b>05 43 00 00-0009 304 Stainless Steel Unistrut Channel (05 43 00 00-0008)</b>				
05 43 00 00-0010	LF	1-5/8" Wide x 13/16" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....	16.96	1.93
05 43 00 00-0011	LF	1-5/8" Wide x 13/16" High, 12 Gauge, 304 Stainless Steel Unistrut Channel .....	20.16	1.93
05 43 00 00-0012	LF	1-5/8" Wide x 1-5/8" High, 14 Gauge, 304 Stainless Steel Unistrut Channel .....	19.36	1.93

<b>05</b>	<b>05 Metals</b>
	<b>05 40 Cold-Formed Metal Framing</b>
	<b>05 43 Slotted Channel Framing</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0013 LF 1-5/8" Wide x 1-5/8" High, 12 Gauge, 304 Stainless Steel Unistrut Channel.....	24.30	1.93
<b>05 43 00 00-0014 316 Stainless Steel Unistrut Channel</b> (05 43 00 00-0008)		
05 43 00 00-0015 LF 1-5/8" Wide x 13/16" High, 14 Gauge, 316 Stainless Steel Unistrut Channel.....	27.33	1.93
<b>05 43 00 00-0016 Unistrut Closure Strips</b> (05 43)		
05 43 00 00-0017 LF Raceway Closure Strip For Unistrut Channel.....	3.62	0.42
<b>05 43 00 00-0018 Lock Nuts With Spring For Unistrut Channel</b> (05 43)		
Note: Includes hex bolt.		
<b>05 43 00 00-0019 Steel Lock Nuts With Spring For Unistrut Channel</b> (05 43 00 00-0018)		
Note: Includes hex bolt.		
05 43 00 00-0020 EA 1/4-20, Steel Lock Nut With Spring For Unistrut Channel.....	5.36	
05 43 00 00-0021 EA 3/8-16, Steel Lock Nut With Spring For Unistrut Channel.....	5.74	
05 43 00 00-0022 EA 1/2-13, Steel Lock Nut With Spring For Unistrut Channel.....	6.02	
05 43 00 00-0023 EA 5/8-11, Steel Lock Nut With Spring For Unistrut Channel.....	7.55	
<b>05 43 00 00-0024 Stainless Steel Lock Nuts With Spring For Unistrut Channel</b> (05 43 00 00-0018)		
Note: Includes hex bolt.		
05 43 00 00-0025 EA 1/4-20, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	10.30	
05 43 00 00-0026 EA 3/8-16, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	10.88	
05 43 00 00-0027 EA 1/2-13, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	14.91	
05 43 00 00-0028 EA 5/8-11, 316 Stainless Steel Lock Nut With Spring For Unistrut Channel.....	24.65	
<b>05 43 00 00-0029 Lock Nuts Without Spring For Unistrut Channel</b> (05 43)		
Note: Includes hex bolt.		
<b>05 43 00 00-0030 Steel Lock Nuts Without Spring For Unistrut Channel</b> (05 43 00 00-0029)		
Note: Includes hex bolt.		
05 43 00 00-0031 EA 1/4-20, Steel Lock Nut Without Spring For Unistrut Channel.....	5.37	
05 43 00 00-0032 EA 3/8-16, Steel Lock Nut Without Spring For Unistrut Channel.....	5.79	
05 43 00 00-0033 EA 1/2-13, Steel Lock Nut Without Spring For Unistrut Channel.....	6.04	
05 43 00 00-0034 EA 5/8-11, Steel Lock Nut Without Spring For Unistrut Channel.....	8.00	
<b>05 43 00 00-0035 Stainless Steel Lock Nuts Without Spring For Unistrut Channel</b> (05 43 00 00-0029)		
Note: Includes hex bolt.		
05 43 00 00-0036 EA 1/4-20, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	7.72	
05 43 00 00-0037 EA 3/8-16, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	9.06	
05 43 00 00-0038 EA 1/2-13, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	9.77	
05 43 00 00-0039 EA 5/8-11, 316 Stainless Steel Lock Nut Without Spring For Unistrut Channel.....	24.04	
<b>05 43 00 00-0040 Beam Clamp For Unistrut Channel</b> (05 43)		
05 43 00 00-0041 EA Unistrut Beam Clamp, 1-5/8" Channel P2675.....	16.55	6.43
05 43 00 00-0042 EA Unistrut Beam Clamp, 1-5/8" Channel P2676.....	19.98	6.43
05 43 00 00-0043 EA Add For Unistrut Swivel Nut, P2676.....	1.87	
<b>05 43 00 00-0044 Beam Clamp Clevis Hangers</b> (05 43)		
05 43 00 00-0045 EA Up To 3/8" Rod, Beam Clamp Clevis Hanger (Unistrut P2674).....	17.74	6.43
05 43 00 00-0046 EA Up To 1/2" Rod, Beam Clamp Clevis Hanger (Unistrut P2677).....	20.47	6.43
05 43 00 00-0047 EA Add For Unistrut Swivel Nut.....	1.87	
05 43 00 00-0048 EA 6-Hole ElectroGalvanized Steel Shelf Bracket For Unistrut.....	100.95	8.58
<b>05 43 00 00-0049 Pipe And Rigid Conduit Clamps</b> (05 43)		
<b>05 43 00 00-0050 Pipe And Rigid Conduit Clamps</b> (05 43 00 00-0049)		
Note: Includes stainless steel (316) hardware.		
05 43 00 00-0051 PR 1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	6.99	2.04
05 43 00 00-0052 PR 3/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	7.17	2.04
05 43 00 00-0053 PR 1" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	8.18	2.47
05 43 00 00-0054 PR 1-1/4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	8.65	2.69
05 43 00 00-0055 PR 1-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	11.13	3.02
05 43 00 00-0056 PR 2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	11.13	3.02
05 43 00 00-0057 PR 2-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	16.95	5.07
05 43 00 00-0058 PR 3" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	17.30	5.07
05 43 00 00-0059 PR 3-1/2" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	18.43	5.60
05 43 00 00-0060 PR 4" Pipe And Rigid Steel Conduit Clamps With Stainless Steel (316) Hardware.....	20.44	6.03
<b>05 43 00 00-0061 Pipe And Rigid Conduit Clamps</b> (05 43 00 00-0049)		
Note: Includes nylon hardware.		
05 43 00 00-0062 PR 1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	7.25	2.04
05 43 00 00-0063 PR 3/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware.....	7.44	2.04



			<b>Metals</b>	<b>05</b>
			<b>Cold-Formed Metal Framing</b>	<b>05 40</b>
			<b>Slotted Channel Framing</b>	<b>05 43</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 43 00 00-0064	PR		1" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware .....	8.45	2.47
05 43 00 00-0065	PR		1-1/4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware .....	8.93	2.69
05 43 00 00-0066	PR		1-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware .....	11.57	3.02
05 43 00 00-0067	PR		2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware .....	11.57	3.02
05 43 00 00-0068	PR		2-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware .....	17.54	5.07
05 43 00 00-0069	PR		3" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware .....	17.92	5.07
05 43 00 00-0070	PR		3-1/2" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware .....	19.06	5.60
05 43 00 00-0071	PR		4" Pipe And Rigid Steel Conduit Clamps With Nylon Hardware .....	21.16	6.03

### 05 45 Metal Support Assemblies (05 40)

**05 45 13 Mechanical Metal Supports (05 45)**  
See CSI section 23 05 29 00-0000 for metal supports.

**05 45 16 Electrical Metal Supports (05 45)**

### 05 50 Metal Fabrications (05)

#### 05 51 Metal Stairs (05 50)

##### 05 51 13 Metal Pan Stairs (05 51)

Note: Open concrete filled metal pan stair and landing including steel stringer, safety nosing and concrete. Excludes handrail.  
See CSI section 05 52 13 00-0000 for handrails.

##### 05 51 13 00-0001 Open Concrete Filled Metal Pan Stair And Landing (05 51 13)

Note: Includes steel stringer, safety nosing and concrete. Excludes handrail.

05 51 13 00-0002	RSR		3'-6" Wide Open Concrete Filled Metal Pan Tread Stair .....	563.14	24.94
			<i>For Closed Riser, Add</i>	64.16	
05 51 13 00-0003	RSR		4'-0" Wide Open Concrete Filled Metal Pan Tread Stair .....	640.59	29.10
			<i>For Closed Riser, Add</i>	72.88	
05 51 13 00-0004	RSR		5'-0" Wide Open Concrete Filled Metal Pan Tread Stair .....	715.03	34.09
			<i>For Closed Riser, Add</i>	81.13	
05 51 13 00-0005	SF		Concrete Filled Steel Pan Landing .....	75.43	4.16
			Note: Conventional shape.		

##### 05 51 19 Metal Grating Stairs (05 51)

Note: Open steel grating tread metal stair and landing including steel stringers, safety nosing and 2 pipe handrail.

##### 05 51 19 00-0001 Open Steel Grating Tread Metal Stair And Landing (05 51 19)

Note: Includes steel stringers, safety nosing and 2 pipe handrail.

05 51 19 00-0002	RSR		3'-6" Wide Open Steel Grating Tread Metal Stair .....	281.99	33.26
			<i>For Closed Riser, Add</i>	33.00	
			<i>For Galvanized Steel, Add</i>	53.87	
05 51 19 00-0003	RSR		4'-0" Wide Open Steel Grating Tread Metal Stair .....	302.23	38.24
			<i>For Closed Riser, Add</i>	35.08	
			<i>For Galvanized Steel, Add</i>	56.44	
05 51 19 00-0004	RSR		5'-0" Wide Open Steel Grating Tread Metal Stair .....	336.05	44.89
			<i>For Closed Riser, Add</i>	38.75	
			<i>For Galvanized Steel, Add</i>	61.57	
05 51 19 00-0005	SF		Steel Grating Landing With Framing And 2 Pipe Handrail .....	53.57	4.16
			Note: Conventional shape.		
			<i>For Galvanized Steel, Add</i>	9.24	

##### 05 51 33 Metal Ladders (05 51)

Note: Includes factory prime.

##### 05 51 33 13 Vertical Metal Ladders (05 51 33)

##### 05 51 33 13-0001 Vertical Ladders (05 51 33 13)

Note: Climbing rungs are 3/4" corrugated steel round rungs on 12" centers. Stand-off brackets are 7"

05 51 33 13-0002	VL		20" Wide Vertical Steel Ladder Primed .....	78.53	9.98
			<i>For Galvanized Steel, Add</i>	11.81	
			<i>For Aluminum, Add</i>	23.62	
05 51 33 13-0003	VL		24" Wide Vertical Steel Ladder Primed .....	90.49	9.98
			<i>For Galvanized Steel, Add</i>	14.80	
			<i>For Aluminum, Add</i>	29.60	
05 51 33 13-0004	VL		20" Wide Vertical Steel Caged Ladder Primed .....	190.20	16.63
			<i>For Galvanized Steel, Add</i>	34.30	
			<i>For Aluminum, Add</i>	68.60	
05 51 33 13-0005	VL		24" Wide Vertical Steel Caged Ladder Primed .....	214.13	16.63
			<i>For Galvanized Steel, Add</i>	40.28	
			<i>For Aluminum, Add</i>	80.57	

##### 05 51 33 13-0006 Vertical Ladders Options (05 51 33 13)

05 51 33 13-0007	EA		20" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed .....	214.74	31.18
			Note: Extends 42" above landing surface. Includes mounting bracket.		
			<i>For Galvanized Steel, Add</i>	38.10	
			<i>For Aluminum, Add</i>	76.20	
05 51 33 13-0008	EA		24" Wide Vertical Steel Ladder Walk-Thru Handrails, Primed .....	234.59	33.26
			Note: Extends 42" above landing surface. Includes mounting bracket.		
			<i>For Galvanized Steel, Add</i>	42.02	
			<i>For Aluminum, Add</i>	84.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51 33 13-0009 EA Security Cage Entry Gate With Lockable Hasp .....	300.90	10.39
05 51 33 13-0010 EA 6' Security Ladder Guard .....	665.91	62.35
05 51 33 13-0011 EA 8' Security Ladder Guard .....	795.39	72.75
05 51 33 13-0012 EA Safety Chain Attachment .....	119.72	
<b>05 51 33 13-0013 Welded Steel Ladder Cages</b> <small>(05 51 33 13)</small>		
Note: For existing fixed ladders up to 20" wide. Excludes the ladder.		
<b>05 51 33 13-0014 Powder Coated, Welded Steel Ladder Cages</b> <small>(05 51 33 13-0013)</small>		
05 51 33 13-0015 EA 7-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,234.80	124.71
05 51 33 13-0016 EA 8-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,337.69	128.87
05 51 33 13-0017 EA 9-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,420.00	133.03
05 51 33 13-0018 EA 10-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,507.81	137.18
05 51 33 13-0019 EA 11-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,559.98	141.34
05 51 33 13-0020 EA 12-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,643.66	145.50
05 51 33 13-0021 EA 13-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,717.77	149.65
05 51 33 13-0022 EA 14-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,813.80	153.81
05 51 33 13-0023 EA 15-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,907.07	157.97
05 51 33 13-0024 EA 16-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	1,983.91	162.12
05 51 33 13-0025 EA 17-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,077.20	166.28
05 51 33 13-0026 EA 18-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,167.74	170.44
05 51 33 13-0027 EA 19-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,256.91	174.60
05 51 33 13-0028 EA 20-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,417.36	178.76
05 51 33 13-0029 EA 21-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,466.78	182.91
05 51 33 13-0030 EA 22-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,550.48	187.06
05 51 33 13-0031 EA 23-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,627.31	191.22
05 51 33 13-0032 EA 24-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,698.67	195.38
05 51 33 13-0033 EA 25-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,855.00	199.54
05 51 33 13-0034 EA 26-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	2,940.07	203.70
05 51 33 13-0035 EA 27-1/2' Length, Powder Coated, Welded Steel Ladder Cage.....	3,019.63	207.86
<b>05 51 33 13-0036 Stainless Steel, Welded Steel Ladder Cages</b> <small>(05 51 33 13-0013)</small>		
05 51 33 13-0037 EA 7-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	2,855.34	124.71
05 51 33 13-0038 EA 8-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,048.12	128.87
05 51 33 13-0039 EA 9-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,367.78	133.03
05 51 33 13-0040 EA 10-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,526.54	137.18
05 51 33 13-0041 EA 11-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,660.44	141.34
05 51 33 13-0042 EA 12-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	3,837.51	145.50
05 51 33 13-0043 EA 13-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,154.56	149.65
05 51 33 13-0044 EA 14-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,315.94	153.81
05 51 33 13-0045 EA 15-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,482.53	157.97
05 51 33 13-0046 EA 16-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,664.84	162.12
05 51 33 13-0047 EA 17-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	4,988.44	166.28
05 51 33 13-0048 EA 18-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,151.11	170.44
05 51 33 13-0049 EA 19-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,305.94	174.60
05 51 33 13-0050 EA 20-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,561.51	178.76
05 51 33 13-0051 EA 21-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	5,848.47	182.91
05 51 33 13-0052 EA 22-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,008.54	187.06
05 51 33 13-0053 EA 23-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,172.52	191.22
05 51 33 13-0054 EA 24-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,326.04	195.38
05 51 33 13-0055 EA 25-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,717.66	199.54
05 51 33 13-0056 EA 26-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	6,871.19	203.70
05 51 33 13-0057 EA 27-1/2' Length, Stainless Steel, Welded Steel Ladder Cage.....	7,028.63	207.86
<b>05 51 33 16 Inclined Metal Ladders</b> <small>(05 51 33)</small>		
<b>05 51 33 16-0001 Industrial Ship Ladder, Incline Stairs</b> <small>(05 51 33 16)</small>		
Note: Includes factory prime.		
05 51 33 16-0002 RSR 3' Wide Industrial Steel Ship Ladder With 2 Rails Each Side.....	212.11	41.57
For Aluminum, Add	64.49	
<b>05 51 33 23 Alternating Tread Ladders</b> <small>(05 51 33)</small>		
<b>05 51 33 23-0001 Vertical Ladders With Alternating Tread</b> <small>(05 51 33 23)</small>		
05 51 33 23-0002 EA 4' Vertical Height Aluminum Alternating Tread Ladder .....	1,327.39	124.71
For Stainless Steel, Add	196.80	
For Primed Steel, Deduct	-191.42	
05 51 33 23-0003 EA 5' Vertical Height Aluminum Alternating Tread Ladder .....	1,509.86	132.20
For Stainless Steel, Add	240.90	
For Primed Steel, Deduct	-223.30	
05 51 33 23-0004 EA 6' Vertical Height Aluminum Alternating Tread Ladder .....	1,660.78	132.20
For Stainless Steel, Add	288.67	
For Primed Steel, Deduct	-241.55	
05 51 33 23-0005 EA 7' Vertical Height Aluminum Alternating Tread Ladder .....	1,911.23	166.12
For Stainless Steel, Add	347.24	
For Primed Steel, Deduct	-256.61	
05 51 33 23-0006 EA 8' Vertical Height Aluminum Alternating Tread Ladder .....	2,087.57	172.00
For Stainless Steel, Add	388.99	
For Primed Steel, Deduct	-298.53	



<b>Metals</b>	<b>05</b>	<b>05</b>
Metal Fabrications	05 50	
Metal Stairs	05 51	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 51	33 23-0007	EA	9' Vertical Height Aluminum Alternating Tread Ladder ..... <i>For Stainless Steel, Add</i> <i>For Primed Steel, Deduct</i>	2,220.92 453.51 -293.53	172.00
05 51	33 23-0008	EA	10' Vertical Height Aluminum Alternating Tread Ladder ..... <i>For Stainless Steel, Add</i> <i>For Primed Steel, Deduct</i>	2,442.05 497.40 -327.55	191.87
05 51	33 23-0009	EA	11' Vertical Height Aluminum Alternating Tread Ladder ..... <i>For Stainless Steel, Add</i> <i>For Primed Steel, Deduct</i>	2,591.46 546.61 -347.07	191.87
05 51	33 23-0010	EA	12' Vertical Height Aluminum Alternating Tread Ladder ..... <i>For Stainless Steel, Add</i> <i>For Primed Steel, Deduct</i>	2,707.70 623.99 -346.65	191.87

05 52 Metal Railings (05 50)

**05 52 13 Pipe And Tube Railings** (05 52)

Note: Includes sleeves, grouting, connection bolts (where necessary) and drilling of bolt (where necessary).

05 52 13 00-0001 **Welded Steel Pipe Railing** (05 52 13)  
Note: Includes field welds and touch-up of welds.

05 52 13 00-0002 **One Rail, Up To 42" High, Welded Steel Pipe Railings** (05 52 13 00-0001)  
Note: Includes factory primed posts and one rail.

05 52 13 00-0003	LF	1" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	37.25	8.32
		<i>For Schedule 80 Handrail, Add</i>	2.93	
		<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.54	
		<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.16	
		<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.80	
		<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-8.04	
		<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	11.82	
		<i>For Aluminum, Satin Finish, Add</i>	8.66	
		<i>For Aluminum, Clear Anodized Finish, Add</i>	13.40	
		<i>For Aluminum, Dark Anodized Finish, Add</i>	15.47	
		<i>For Galvanizing, Add</i>	8.25	
		<i>For Wrought Iron, Add</i>	3.73	
		<i>For Solid Steel Rails, Add</i>	7.45	
		<i>For 304 Stainless Steel, Add</i>	65.98	
		<i>For 316 Stainless Steel, Add</i>	74.23	
		<i>For 2" Wheel Guard, Add</i>	1.96	
		<i>For 4" High Kick Plate, Add</i>	2.58	
		<i>For 6" High Kick Plate, Add</i>	4.12	
		<i>For Curved Rail, Add</i>	17.36	
		<i>For Mounting On Stairs, Add</i>	4.56	
		<i>For Mounting On Slopes, Add</i>	1.66	
		<i>For Post Base Flange With Screws, Add Per Post</i>	19.16	
		<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	28.99	
		<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	14.47	
		<i>For Nylon Coating, Add</i>	3.09	
05 52 13 00-0004	LF	1-1/4" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	40.80	8.32
		<i>For Schedule 80 Handrail, Add</i>	4.32	
		<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-5.32	
		<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-6.04	
		<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-7.98	
		<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-9.43	
		<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	11.82	
		<i>For Aluminum, Satin Finish, Add</i>	10.15	
		<i>For Aluminum, Clear Anodized Finish, Add</i>	15.71	
		<i>For Aluminum, Dark Anodized Finish, Add</i>	18.13	
		<i>For Galvanizing, Add</i>	9.67	
		<i>For Wrought Iron, Add</i>	4.08	
		<i>For Solid Steel Rails, Add</i>	8.16	
		<i>For 304 Stainless Steel, Add</i>	77.34	
		<i>For 316 Stainless Steel, Add</i>	87.01	
		<i>For 2" Wheel Guard, Add</i>	2.30	
		<i>For 4" High Kick Plate, Add</i>	3.02	
		<i>For 6" High Kick Plate, Add</i>	4.83	
		<i>For Curved Rail, Add</i>	19.49	
		<i>For Mounting On Stairs, Add</i>	4.91	
		<i>For Mounting On Slopes, Add</i>	1.66	
		<i>For Post Base Flange With Screws, Add Per Post</i>	19.16	
		<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	28.99	
		<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	16.24	
		<i>For Nylon Coating, Add</i>	3.63	

05	<b>05 Metals</b>
	<b>05 50 Metal Fabrications</b>
	<b>05 52 Metal Railings</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0005 LF 1-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	44.35	8.32
For Schedule 80 Handrail, Add	4.32	
For 11 Gauge A513 Steel Tubing, Deduct	-6.10	
For 12 Gauge A513 Steel Tubing, Deduct	-6.93	
For 14 Gauge A513 Steel Tubing, Deduct	-9.15	
For 16 Gauge A513 Steel Tubing, Deduct	-10.81	
For Additional Off Set Handrail, ADA Attachment, Add	11.82	
For Aluminum, Satin Finish, Add	11.64	
For Aluminum, Clear Anodized Finish, Add	18.02	
For Aluminum, Dark Anodized Finish, Add	20.79	
For Galvanizing, Add	11.09	
For Wrought Iron, Add	4.44	
For Solid Steel Rails, Add	8.87	
For 304 Stainless Steel, Add	88.70	
For 316 Stainless Steel, Add	99.79	
For 2" Wheel Guard, Add	2.63	
For 4" High Kick Plate, Add	3.47	
For 6" High Kick Plate, Add	5.54	
For Curved Rail, Add	21.62	
For Mounting On Stairs, Add	5.27	
For Mounting On Slopes, Add	1.66	
For Post Base Flange With Screws, Add Per Post	19.16	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	28.99	
For Custom Design Or Shapes (Square Tops, etc), Add	18.02	
For Nylon Coating, Add	4.16	
05 52 13 00-0006 LF 2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	50.51	8.32
For Schedule 80 Handrail, Add	4.89	
For 11 Gauge A513 Steel Tubing, Deduct	-7.45	
For 12 Gauge A513 Steel Tubing, Deduct	-8.47	
For 14 Gauge A513 Steel Tubing, Deduct	-11.18	
For 16 Gauge A513 Steel Tubing, Deduct	-13.21	
For Additional Off Set Handrail, ADA Attachment, Add	11.82	
For Aluminum, Satin Finish, Add	14.23	
For Aluminum, Clear Anodized Finish, Add	22.02	
For Aluminum, Dark Anodized Finish, Add	25.41	
For Galvanizing, Add	13.55	
For Wrought Iron, Add	5.05	
For Solid Steel Rails, Add	10.10	
For 304 Stainless Steel, Add	108.42	
For 316 Stainless Steel, Add	121.97	
For 2" Wheel Guard, Add	3.22	
For 4" High Kick Plate, Add	4.24	
For 6" High Kick Plate, Add	6.78	
For Curved Rail, Add	25.32	
For Mounting On Stairs, Add	5.88	
For Mounting On Slopes, Add	1.66	
For Post Base Flange With Screws, Add Per Post	19.16	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	28.99	
For Custom Design Or Shapes (Square Tops, etc), Add	21.10	
For Nylon Coating, Add	5.08	
05 52 13 00-0007 LF 2-1/2" Diameter, Schedule 40, One Rail, Up To 42" High, Welded Steel Pipe Railing.....	57.89	8.32
For Schedule 80 Handrail, Add	5.46	
For 11 Gauge A513 Steel Tubing, Deduct	-9.08	
For 12 Gauge A513 Steel Tubing, Deduct	-10.32	
For 14 Gauge A513 Steel Tubing, Deduct	-13.62	
For 16 Gauge A513 Steel Tubing, Deduct	-16.09	
For Additional Off Set Handrail, ADA Attachment, Add	11.82	
For Aluminum, Satin Finish, Add	17.33	
For Aluminum, Clear Anodized Finish, Add	26.82	
For Aluminum, Dark Anodized Finish, Add	30.95	
For Galvanizing, Add	16.50	
For Wrought Iron, Add	5.79	
For Solid Steel Rails, Add	11.58	
For 304 Stainless Steel, Add	132.03	
For 316 Stainless Steel, Add	148.54	
For 2" Wheel Guard, Add	3.92	
For 4" High Kick Plate, Add	5.16	
For 6" High Kick Plate, Add	8.25	
For Curved Rail, Add	29.75	
For Mounting On Stairs, Add	6.62	
For Mounting On Slopes, Add	1.66	
For Post Base Flange With Screws, Add Per Post	19.16	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	28.99	
For Custom Design Or Shapes (Square Tops, etc), Add	24.79	
For Nylon Coating, Add	6.19	

05 52 13 00-0008 Two Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)  
Note: Includes factory primed posts and two rails.





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0009 LF 1" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	42.40	8.32
<i>For Schedule 80 Handrail, Add</i>	2.93	
<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-5.67	
<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-6.44	
<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-8.50	
<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-10.05	
<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	11.82	
<i>For Aluminum, Satin Finish, Add</i>	10.82	
<i>For Aluminum, Clear Anodized Finish, Add</i>	16.75	
<i>For Aluminum, Dark Anodized Finish, Add</i>	19.33	
<i>For Galvanizing, Add</i>	10.31	
<i>For Wrought Iron, Add</i>	4.24	
<i>For Solid Steel Rails, Add</i>	8.48	
<i>For 304 Stainless Steel, Add</i>	82.46	
<i>For 316 Stainless Steel, Add</i>	92.77	
<i>For 2" Wheel Guard, Add</i>	2.45	
<i>For 4" High Kick Plate, Add</i>	3.22	
<i>For 6" High Kick Plate, Add</i>	5.15	
<i>For Curved Rail, Add</i>	20.45	
<i>For Mounting On Stairs, Add</i>	5.07	
<i>For Mounting On Slopes, Add</i>	1.66	
<i>For Post Base Flange With Screws, Add Per Post</i>	19.16	
<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	28.99	
<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	17.04	
<i>For Nylon Coating, Add</i>	3.87	
05 52 13 00-0010 LF 1-1/4" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing .....	46.84	8.32
<i>For Schedule 80 Handrail, Add</i>	4.32	
<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.65	
<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.55	
<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-9.97	
<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-11.78	
<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	11.82	
<i>For Aluminum, Satin Finish, Add</i>	12.69	
<i>For Aluminum, Clear Anodized Finish, Add</i>	19.64	
<i>For Aluminum, Dark Anodized Finish, Add</i>	22.66	
<i>For Galvanizing, Add</i>	12.08	
<i>For Wrought Iron, Add</i>	4.68	
<i>For Solid Steel Rails, Add</i>	9.37	
<i>For 304 Stainless Steel, Add</i>	96.67	
<i>For 316 Stainless Steel, Add</i>	108.76	
<i>For 2" Wheel Guard, Add</i>	2.87	
<i>For 4" High Kick Plate, Add</i>	3.78	
<i>For 6" High Kick Plate, Add</i>	6.04	
<i>For Curved Rail, Add</i>	23.12	
<i>For Mounting On Stairs, Add</i>	5.52	
<i>For Mounting On Slopes, Add</i>	1.66	
<i>For Post Base Flange With Screws, Add Per Post</i>	19.16	
<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	28.99	
<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	19.26	
<i>For Nylon Coating, Add</i>	4.53	
05 52 13 00-0011 LF 1-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing .....	51.28	8.32
<i>For Schedule 80 Handrail, Add</i>	4.32	
<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-7.62	
<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-8.66	
<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-11.43	
<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-13.51	
<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	11.82	
<i>For Aluminum, Satin Finish, Add</i>	14.55	
<i>For Aluminum, Clear Anodized Finish, Add</i>	22.52	
<i>For Aluminum, Dark Anodized Finish, Add</i>	25.99	
<i>For Galvanizing, Add</i>	13.86	
<i>For Wrought Iron, Add</i>	5.13	
<i>For Solid Steel Rails, Add</i>	10.26	
<i>For 304 Stainless Steel, Add</i>	110.88	
<i>For 316 Stainless Steel, Add</i>	124.74	
<i>For 2" Wheel Guard, Add</i>	3.29	
<i>For 4" High Kick Plate, Add</i>	4.33	
<i>For 6" High Kick Plate, Add</i>	6.93	
<i>For Curved Rail, Add</i>	25.78	
<i>For Mounting On Stairs, Add</i>	5.96	
<i>For Mounting On Slopes, Add</i>	1.66	
<i>For Post Base Flange With Screws, Add Per Post</i>	19.16	
<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	28.99	
<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	21.48	
<i>For Nylon Coating, Add</i>	5.20	

05	<b>05 Metals</b>
	<b>05 50 Metal Fabrications</b>
	05 52 Metal Railings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0012 LF 2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	58.98	8.32
<i>For Schedule 80 Handrail, Add</i>	4.89	
<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-9.32	
<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-10.59	
<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-13.98	
<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-16.52	
<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	11.82	
<i>For Aluminum, Satin Finish, Add</i>	17.79	
<i>For Aluminum, Clear Anodized Finish, Add</i>	27.53	
<i>For Aluminum, Dark Anodized Finish, Add</i>	31.76	
<i>For Galvanizing, Add</i>	16.94	
<i>For Wrought Iron, Add</i>	5.90	
<i>For Solid Steel Rails, Add</i>	11.80	
<i>For 304 Stainless Steel, Add</i>	135.52	
<i>For 316 Stainless Steel, Add</i>	152.46	
<i>For 2" Wheel Guard, Add</i>	4.02	
<i>For 4" High Kick Plate, Add</i>	5.29	
<i>For 6" High Kick Plate, Add</i>	8.47	
<i>For Curved Rail, Add</i>	30.40	
<i>For Mounting On Stairs, Add</i>	6.73	
<i>For Mounting On Slopes, Add</i>	1.66	
<i>For Post Base Flange With Screws, Add Per Post</i>	19.16	
<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	28.99	
<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	25.33	
<i>For Nylon Coating, Add</i>	6.35	
05 52 13 00-0013 LF 2-1/2" Diameter, Schedule 40, Two Rail, Up To 42" High, Welded Steel Pipe Railing.....	68.21	8.32
<i>For Schedule 80 Handrail, Add</i>	5.46	
<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-11.35	
<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-12.90	
<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-17.02	
<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-20.12	
<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	11.82	
<i>For Aluminum, Satin Finish, Add</i>	21.66	
<i>For Aluminum, Clear Anodized Finish, Add</i>	33.53	
<i>For Aluminum, Dark Anodized Finish, Add</i>	38.69	
<i>For Galvanizing, Add</i>	20.63	
<i>For Wrought Iron, Add</i>	6.82	
<i>For Solid Steel Rails, Add</i>	13.64	
<i>For 304 Stainless Steel, Add</i>	165.06	
<i>For 316 Stainless Steel, Add</i>	185.69	
<i>For 2" Wheel Guard, Add</i>	4.90	
<i>For 4" High Kick Plate, Add</i>	6.45	
<i>For 6" High Kick Plate, Add</i>	10.32	
<i>For Curved Rail, Add</i>	35.94	
<i>For Mounting On Stairs, Add</i>	7.65	
<i>For Mounting On Slopes, Add</i>	1.66	
<i>For Post Base Flange With Screws, Add Per Post</i>	19.16	
<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	28.99	
<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	29.95	
<i>For Nylon Coating, Add</i>	7.74	
<b>05 52 13 00-0014 Three Rail, Up To 42" High, Welded Steel Pipe Railings (05 52 13 00-0001)</b>		
Note: Includes factory primed posts and three rails.		
05 52 13 00-0015 LF 1" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	56.79	9.98
<i>For Schedule 80 Handrail, Add</i>	4.33	
<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-8.10	
<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-9.21	
<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-12.16	
<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-14.37	
<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	12.48	
<i>For Aluminum, Satin Finish, Add</i>	15.47	
<i>For Aluminum, Clear Anodized Finish, Add</i>	23.95	
<i>For Aluminum, Dark Anodized Finish, Add</i>	27.63	
<i>For Galvanizing, Add</i>	14.74	
<i>For Wrought Iron, Add</i>	5.68	
<i>For Solid Steel Rails, Add</i>	11.36	
<i>For 304 Stainless Steel, Add</i>	117.89	
<i>For 316 Stainless Steel, Add</i>	132.62	
<i>For 2" Wheel Guard, Add</i>	3.50	
<i>For 4" High Kick Plate, Add</i>	4.61	
<i>For 6" High Kick Plate, Add</i>	7.37	
<i>For Curved Rail, Add</i>	28.09	
<i>For Mounting On Stairs, Add</i>	6.68	
<i>For Mounting On Slopes, Add</i>	2.00	
<i>For Post Base Flange With Screws, Add Per Post</i>	19.50	
<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.49	
<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	23.41	
<i>For Nylon Coating, Add</i>	5.53	



	<b>Metals</b>	<b>05</b>
	Metal Fabrications	05 50
	Metal Railings	05 52

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0016 LF 1-1/4" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	63.13	9.98
For Schedule 80 Handrail, Add	6.19	
For 11 Gauge A513 Steel Tubing, Deduct	-9.50	
For 12 Gauge A513 Steel Tubing, Deduct	-10.80	
For 14 Gauge A513 Steel Tubing, Deduct	-14.25	
For 16 Gauge A513 Steel Tubing, Deduct	-16.84	
For Additional Off Set Handrail, ADA Attachment, Add	12.48	
For Aluminum, Satin Finish, Add	18.14	
For Aluminum, Clear Anodized Finish, Add	28.07	
For Aluminum, Dark Anodized Finish, Add	32.39	
For Galvanizing, Add	17.27	
For Wrought Iron, Add	6.31	
For Solid Steel Rails, Add	12.63	
For 304 Stainless Steel, Add	138.18	
For 316 Stainless Steel, Add	155.45	
For 2" Wheel Guard, Add	4.10	
For 4" High Kick Plate, Add	5.40	
For 6" High Kick Plate, Add	8.64	
For Curved Rail, Add	31.89	
For Mounting On Stairs, Add	7.31	
For Mounting On Slopes, Add	2.00	
For Post Base Flange With Screws, Add Per Post	19.50	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.49	
For Custom Design Or Shapes (Square Tops, etc), Add	26.58	
For Nylon Coating, Add	6.48	
05 52 13 00-0017 LF 1-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	69.47	9.98
For Schedule 80 Handrail, Add	6.19	
For 11 Gauge A513 Steel Tubing, Deduct	-10.89	
For 12 Gauge A513 Steel Tubing, Deduct	-12.38	
For 14 Gauge A513 Steel Tubing, Deduct	-16.34	
For 16 Gauge A513 Steel Tubing, Deduct	-19.31	
For Additional Off Set Handrail, ADA Attachment, Add	12.48	
For Aluminum, Satin Finish, Add	20.80	
For Aluminum, Clear Anodized Finish, Add	32.19	
For Aluminum, Dark Anodized Finish, Add	37.14	
For Galvanizing, Add	19.81	
For Wrought Iron, Add	6.95	
For Solid Steel Rails, Add	13.89	
For 304 Stainless Steel, Add	158.46	
For 316 Stainless Steel, Add	178.27	
For 2" Wheel Guard, Add	4.70	
For 4" High Kick Plate, Add	6.19	
For 6" High Kick Plate, Add	9.90	
For Curved Rail, Add	35.70	
For Mounting On Stairs, Add	7.94	
For Mounting On Slopes, Add	2.00	
For Post Base Flange With Screws, Add Per Post	19.50	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.49	
For Custom Design Or Shapes (Square Tops, etc), Add	29.75	
For Nylon Coating, Add	7.43	
05 52 13 00-0018 LF 2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	80.50	9.98
For Schedule 80 Handrail, Add	6.94	
For 11 Gauge A513 Steel Tubing, Deduct	-13.32	
For 12 Gauge A513 Steel Tubing, Deduct	-15.14	
For 14 Gauge A513 Steel Tubing, Deduct	-19.98	
For 16 Gauge A513 Steel Tubing, Deduct	-23.61	
For Additional Off Set Handrail, ADA Attachment, Add	12.48	
For Aluminum, Satin Finish, Add	25.43	
For Aluminum, Clear Anodized Finish, Add	39.36	
For Aluminum, Dark Anodized Finish, Add	45.41	
For Galvanizing, Add	24.22	
For Wrought Iron, Add	8.05	
For Solid Steel Rails, Add	16.10	
For 304 Stainless Steel, Add	193.76	
For 316 Stainless Steel, Add	217.98	
For 2" Wheel Guard, Add	5.75	
For 4" High Kick Plate, Add	7.57	
For 6" High Kick Plate, Add	12.11	
For Curved Rail, Add	42.32	
For Mounting On Stairs, Add	9.05	
For Mounting On Slopes, Add	2.00	
For Post Base Flange With Screws, Add Per Post	19.50	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.49	
For Custom Design Or Shapes (Square Tops, etc), Add	35.26	
For Nylon Coating, Add	9.08	

05	<b>05 Metals</b>
	<b>05 50 Metal Fabrications</b>
	<b>05 52 Metal Railings</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0019 LF 2-1/2" Diameter, Schedule 40, Three Rail, Up To 42" High, Welded Steel Pipe Railing.....	93.62	9.98
<i>For Schedule 80 Handrail, Add</i>	7.70	
<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-16.21	
<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-18.42	
<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-24.31	
<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-28.73	
<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	12.48	
<i>For Aluminum, Satin Finish, Add</i>	30.94	
<i>For Aluminum, Clear Anodized Finish, Add</i>	47.89	
<i>For Aluminum, Dark Anodized Finish, Add</i>	55.25	
<i>For Galvanizing, Add</i>	29.47	
<i>For Wrought Iron, Add</i>	9.36	
<i>For Solid Steel Rails, Add</i>	18.72	
<i>For 304 Stainless Steel, Add</i>	235.74	
<i>For 316 Stainless Steel, Add</i>	265.21	
<i>For 2" Wheel Guard, Add</i>	7.00	
<i>For 4" High Kick Plate, Add</i>	9.21	
<i>For 6" High Kick Plate, Add</i>	14.73	
<i>For Curved Rail, Add</i>	50.19	
<i>For Mounting On Stairs, Add</i>	10.36	
<i>For Mounting On Slopes, Add</i>	2.00	
<i>For Post Base Flange With Screws, Add Per Post</i>	19.50	
<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.49	
<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	41.82	
<i>For Nylon Coating, Add</i>	11.05	
05 52 13 00-0020 Four Rail, Up To 42" High, Welded Steel Pipe Railings <small>(05 52 13 00-0001)</small>		
<i>Note: Includes factory primed posts and four rails.</i>		
05 52 13 00-0021 LF 1" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing .....	68.49	11.64
<i>For Schedule 80 Handrail, Add</i>	5.94	
<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-9.95	
<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-11.30	
<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-14.92	
<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-17.63	
<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	13.15	
<i>For Aluminum, Satin Finish, Add</i>	18.99	
<i>For Aluminum, Clear Anodized Finish, Add</i>	29.39	
<i>For Aluminum, Dark Anodized Finish, Add</i>	33.91	
<i>For Galvanizing, Add</i>	18.08	
<i>For Wrought Iron, Add</i>	6.85	
<i>For Solid Steel Rails, Add</i>	13.70	
<i>For 304 Stainless Steel, Add</i>	144.67	
<i>For 316 Stainless Steel, Add</i>	162.76	
<i>For 2" Wheel Guard, Add</i>	4.29	
<i>For 4" High Kick Plate, Add</i>	5.65	
<i>For 6" High Kick Plate, Add</i>	9.04	
<i>For Curved Rail, Add</i>	34.11	
<i>For Mounting On Stairs, Add</i>	8.01	
<i>For Mounting On Slopes, Add</i>	2.33	
<i>For Post Base Flange With Screws, Add Per Post</i>	19.83	
<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.99	
<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	28.43	
<i>For Nylon Coating, Add</i>	6.78	
05 52 13 00-0022 LF 1-1/4" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing .....	74.12	11.64
<i>For Schedule 80 Handrail, Add</i>	8.26	
<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-11.18	
<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-12.71	
<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-16.78	
<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-19.83	
<i>For Additional Off Set Handrail, ADA Attachment, Add</i>	13.15	
<i>For Aluminum, Satin Finish, Add</i>	21.35	
<i>For Aluminum, Clear Anodized Finish, Add</i>	33.05	
<i>For Aluminum, Dark Anodized Finish, Add</i>	38.13	
<i>For Galvanizing, Add</i>	20.34	
<i>For Wrought Iron, Add</i>	7.41	
<i>For Solid Steel Rails, Add</i>	14.82	
<i>For 304 Stainless Steel, Add</i>	162.69	
<i>For 316 Stainless Steel, Add</i>	183.02	
<i>For 2" Wheel Guard, Add</i>	4.83	
<i>For 4" High Kick Plate, Add</i>	6.36	
<i>For 6" High Kick Plate, Add</i>	10.17	
<i>For Curved Rail, Add</i>	37.49	
<i>For Mounting On Stairs, Add</i>	8.58	
<i>For Mounting On Slopes, Add</i>	2.33	
<i>For Post Base Flange With Screws, Add Per Post</i>	19.83	
<i>For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post</i>	29.99	
<i>For Custom Design Or Shapes (Square Tops, etc), Add</i>	31.24	
<i>For Nylon Coating, Add</i>	7.63	



Metals	05	05
Metal Fabrications	05 50	
Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0023 LF 1-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	79.76	11.64
For Schedule 80 Handrail, Add	8.26	
For 11 Gauge A513 Steel Tubing, Deduct	-12.43	
For 12 Gauge A513 Steel Tubing, Deduct	-14.12	
For 14 Gauge A513 Steel Tubing, Deduct	-18.64	
For 16 Gauge A513 Steel Tubing, Deduct	-22.03	
For Additional Off Set Handrail, ADA Attachment, Add	13.15	
For Aluminum, Satin Finish, Add	23.72	
For Aluminum, Clear Anodized Finish, Add	36.71	
For Aluminum, Dark Anodized Finish, Add	42.36	
For Galvanizing, Add	22.59	
For Wrought Iron, Add	7.98	
For Solid Steel Rails, Add	15.95	
For 304 Stainless Steel, Add	180.74	
For 316 Stainless Steel, Add	203.33	
For 2" Wheel Guard, Add	5.37	
For 4" High Kick Plate, Add	7.06	
For 6" High Kick Plate, Add	11.30	
For Curved Rail, Add	40.87	
For Mounting On Stairs, Add	9.14	
For Mounting On Slopes, Add	2.33	
For Post Base Flange With Screws, Add Per Post	19.83	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.99	
For Custom Design Or Shapes (Square Tops, etc), Add	34.06	
For Nylon Coating, Add	8.47	
05 52 13 00-0024 LF 2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	92.30	11.64
For Schedule 80 Handrail, Add	9.20	
For 11 Gauge A513 Steel Tubing, Deduct	-15.18	
For 12 Gauge A513 Steel Tubing, Deduct	-17.26	
For 14 Gauge A513 Steel Tubing, Deduct	-22.78	
For 16 Gauge A513 Steel Tubing, Deduct	-26.92	
For Additional Off Set Handrail, ADA Attachment, Add	13.15	
For Aluminum, Satin Finish, Add	28.99	
For Aluminum, Clear Anodized Finish, Add	44.86	
For Aluminum, Dark Anodized Finish, Add	51.77	
For Galvanizing, Add	27.61	
For Wrought Iron, Add	9.23	
For Solid Steel Rails, Add	18.46	
For 304 Stainless Steel, Add	220.86	
For 316 Stainless Steel, Add	248.47	
For 2" Wheel Guard, Add	6.56	
For 4" High Kick Plate, Add	8.63	
For 6" High Kick Plate, Add	13.80	
For Curved Rail, Add	48.40	
For Mounting On Stairs, Add	10.39	
For Mounting On Slopes, Add	2.33	
For Post Base Flange With Screws, Add Per Post	19.83	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.99	
For Custom Design Or Shapes (Square Tops, etc), Add	40.33	
For Nylon Coating, Add	10.35	
05 52 13 00-0025 LF 2-1/2" Diameter, Schedule 40, Four Rail, Up To 42" High, Welded Steel Pipe Railing.....	107.00	11.64
For Schedule 80 Handrail, Add	10.15	
For 11 Gauge A513 Steel Tubing, Deduct	-18.42	
For 12 Gauge A513 Steel Tubing, Deduct	-20.93	
For 14 Gauge A513 Steel Tubing, Deduct	-27.63	
For 16 Gauge A513 Steel Tubing, Deduct	-32.65	
For Additional Off Set Handrail, ADA Attachment, Add	13.15	
For Aluminum, Satin Finish, Add	35.16	
For Aluminum, Clear Anodized Finish, Add	54.42	
For Aluminum, Dark Anodized Finish, Add	62.79	
For Galvanizing, Add	33.49	
For Wrought Iron, Add	10.70	
For Solid Steel Rails, Add	21.40	
For 304 Stainless Steel, Add	267.90	
For 316 Stainless Steel, Add	301.39	
For 2" Wheel Guard, Add	7.95	
For 4" High Kick Plate, Add	10.47	
For 6" High Kick Plate, Add	16.74	
For Curved Rail, Add	57.22	
For Mounting On Stairs, Add	11.86	
For Mounting On Slopes, Add	2.33	
For Post Base Flange With Screws, Add Per Post	19.83	
For Embedded Stainless Steel Post Sleeves (Excludes Core Drilling), Add Per Post	29.99	
For Custom Design Or Shapes (Square Tops, etc), Add	47.68	
For Nylon Coating, Add	12.56	
05 52 13 00-0026 Railing Infill Panels <small>(05 52 13)</small>		
Note: Includes field welds and touch-up of welds.		
05 52 13 00-0027 Wire Mesh Or Welded Wire Mesh, Railing Infill Panels <small>(05 52 13 00-0026)</small>		
Note: Square weave or square welded wire mesh.		
05 52 13 00-0028 SF Powder Coated Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel .....	7.95	
05 52 13 00-0029 SF Galvanized Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel .....	8.44	
05 52 13 00-0030 SF Aluminum, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel .....	8.87	
05 52 13 00-0031 SF Stainless Steel, Wire Mesh Or Welded Wire Mesh, Railing Infill Panel .....	15.00	

<b>05</b>	<b>Metals</b>
<b>05 50</b>	<b>Metal Fabrications</b>
<b>05 52</b>	<b>Metal Railings</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>05 52 13 00-0032</b>	<b>Perforated Metal, Railing Infill Panels</b> (05 52 13 00-0026)		
05 52 13 00-0033	SF Powder Coated Steel, Perforated Metal, Railing Infill Panel .....	7.79	
05 52 13 00-0034	SF Galvanized Steel, Perforated Metal, Railing Infill Panel.....	8.06	
05 52 13 00-0035	SF Aluminum, Perforated Metal, Railing Infill Panel .....	8.63	
05 52 13 00-0036	SF Stainless Steel, Perforated Metal, Railing Infill Panel .....	17.31	
<b>05 52 13 00-0037</b>	<b>Expanded Metal, Railing Infill Panels</b> (05 52 13 00-0026)		
05 52 13 00-0038	SF Powder Coated Steel, Expanded Metal, Railing Infill Panel.....	3.52	
05 52 13 00-0039	SF Galvanized Steel, Expanded Metal, Railing Infill Panel.....	7.18	
05 52 13 00-0040	SF Aluminum, Expanded Metal, Railing Infill Panel.....	9.43	
05 52 13 00-0041	SF Stainless Steel, Expanded Metal, Railing Infill Panel.....	14.06	
<b>05 52 13 00-0042</b>	<b>Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings</b> (05 52 13)		
	Note: Includes factory primed, fasteners and field touch-up of welds.		
05 52 13 00-0043	LF 1" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	32.20	4.99
	<i>For Schedule 80 Handrail, Add</i>	1.74	
	<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.34	
	<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-4.93	
	<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.51	
	<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-7.69	
	<i>For Stainless Steel, Add</i>	39.46	
	<i>For Aluminum, Satin Finish, Add</i>	8.29	
	<i>For Curved Rail, Add</i>	9.66	
	<i>For Aluminum, Clear Anodized Finish, Add</i>	12.82	
	<i>For Aluminum, Dark Anodized Finish, Add</i>	14.80	
	<i>For Galvanized Finish, Add</i>	5.92	
05 52 13 00-0044	LF 1-1/4" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	32.83	4.99
	<i>For Schedule 80 Handrail, Add</i>	1.97	
	<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.48	
	<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.09	
	<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.72	
	<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-7.94	
	<i>For Stainless Steel, Add</i>	40.72	
	<i>For Aluminum, Satin Finish, Add</i>	8.55	
	<i>For Curved Rail, Add</i>	9.85	
	<i>For Aluminum, Clear Anodized Finish, Add</i>	13.23	
	<i>For Aluminum, Dark Anodized Finish, Add</i>	15.27	
	<i>For Galvanized Finish, Add</i>	6.11	
05 52 13 00-0045	LF 1-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	33.47	4.99
	<i>For Schedule 80 Handrail, Add</i>	5.07	
	<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-4.62	
	<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-5.25	
	<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-6.93	
	<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-8.19	
	<i>For Stainless Steel, Add</i>	42.00	
	<i>For Aluminum, Satin Finish, Add</i>	8.82	
	<i>For Curved Rail, Add</i>	10.04	
	<i>For Aluminum, Clear Anodized Finish, Add</i>	13.65	
	<i>For Aluminum, Dark Anodized Finish, Add</i>	15.75	
	<i>For Galvanized Finish, Add</i>	6.30	
05 52 13 00-0046	LF 2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	40.79	4.99
	<i>For Schedule 80 Handrail, Add</i>	2.39	
	<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-6.23	
	<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-7.08	
	<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-9.35	
	<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-11.04	
	<i>For Stainless Steel, Add</i>	56.64	
	<i>For Aluminum, Satin Finish, Add</i>	11.89	
	<i>For Curved Rail, Add</i>	12.24	
	<i>For Aluminum, Clear Anodized Finish, Add</i>	18.41	
	<i>For Aluminum, Dark Anodized Finish, Add</i>	21.24	
	<i>For Galvanized Finish, Add</i>	8.50	
05 52 13 00-0047	LF 2-1/2" Diameter, Schedule 40, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	46.83	4.99
	<i>For Schedule 80 Handrail, Add</i>	2.58	
	<i>For 11 Gauge A513 Steel Tubing, Deduct</i>	-7.56	
	<i>For 12 Gauge A513 Steel Tubing, Deduct</i>	-8.59	
	<i>For 14 Gauge A513 Steel Tubing, Deduct</i>	-11.34	
	<i>For 16 Gauge A513 Steel Tubing, Deduct</i>	-13.40	
	<i>For Stainless Steel, Add</i>	68.72	
	<i>For Aluminum, Satin Finish, Add</i>	14.43	
	<i>For Curved Rail, Add</i>	14.05	
	<i>For Aluminum, Clear Anodized Finish, Add</i>	22.33	
	<i>For Aluminum, Dark Anodized Finish, Add</i>	25.77	
	<i>For Galvanized Finish, Add</i>	10.31	
<b>05 52 13 00-0048</b>	<b>Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railings</b> (05 52 13)		
	Note: Includes factory primed, fasteners and field touch-up of welds.		



	<b>Metals</b>	<b>05</b>	
	Metal Fabrications	05 50	05
	Metal Railings	05 52	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 52 13 00-0049 LF 1" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	39.67	5.24
For Schedule 80 Handrail, Add	1.74	
For 11 Gauge A513 Steel Tubing, Deduct	-5.98	
For 12 Gauge A513 Steel Tubing, Deduct	-6.80	
For 14 Gauge A513 Steel Tubing, Deduct	-8.98	
For 16 Gauge A513 Steel Tubing, Deduct	-10.61	
For Stainless Steel, Add	54.40	
For Aluminum, Satin Finish, Add	11.42	
For Curved Rail, Add	11.90	
For Aluminum, Clear Anodized Finish, Add	17.68	
For Aluminum, Dark Anodized Finish, Add	20.40	
For Galvanized Finish, Add	8.16	
05 52 13 00-0050 LF 1-1/4" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	40.57	5.24
For Schedule 80 Handrail, Add	1.97	
For 11 Gauge A513 Steel Tubing, Deduct	-6.18	
For 12 Gauge A513 Steel Tubing, Deduct	-7.03	
For 14 Gauge A513 Steel Tubing, Deduct	-9.27	
For 16 Gauge A513 Steel Tubing, Deduct	-10.96	
For Stainless Steel, Add	56.20	
For Aluminum, Satin Finish, Add	11.80	
For Curved Rail, Add	12.17	
For Aluminum, Clear Anodized Finish, Add	18.27	
For Aluminum, Dark Anodized Finish, Add	21.08	
For Galvanized Finish, Add	8.43	
05 52 13 00-0051 LF 1-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	41.23	5.24
For Schedule 80 Handrail, Add	5.07	
For 11 Gauge A513 Steel Tubing, Deduct	-6.33	
For 12 Gauge A513 Steel Tubing, Deduct	-7.19	
For 14 Gauge A513 Steel Tubing, Deduct	-9.49	
For 16 Gauge A513 Steel Tubing, Deduct	-11.22	
For Stainless Steel, Add	57.52	
For Aluminum, Satin Finish, Add	12.08	
For Curved Rail, Add	12.37	
For Aluminum, Clear Anodized Finish, Add	18.69	
For Aluminum, Dark Anodized Finish, Add	21.57	
For Galvanized Finish, Add	8.63	
05 52 13 00-0052 LF 2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	51.45	5.24
For Schedule 80 Handrail, Add	2.39	
For 11 Gauge A513 Steel Tubing, Deduct	-8.58	
For 12 Gauge A513 Steel Tubing, Deduct	-9.75	
For 14 Gauge A513 Steel Tubing, Deduct	-12.86	
For 16 Gauge A513 Steel Tubing, Deduct	-15.20	
For Stainless Steel, Add	77.96	
For Aluminum, Satin Finish, Add	16.37	
For Curved Rail, Add	15.44	
For Aluminum, Clear Anodized Finish, Add	25.34	
For Aluminum, Dark Anodized Finish, Add	29.24	
For Galvanized Finish, Add	11.69	
05 52 13 00-0053 LF 2-1/2" Diameter, Custom Shapes, Wall Bracket Mounted, Up To 42" High, Welded Steel Pipe Railing.....	58.13	5.24
For Schedule 80 Handrail, Add	2.58	
For 11 Gauge A513 Steel Tubing, Deduct	-10.05	
For 12 Gauge A513 Steel Tubing, Deduct	-11.42	
For 14 Gauge A513 Steel Tubing, Deduct	-15.07	
For 16 Gauge A513 Steel Tubing, Deduct	-17.81	
For Stainless Steel, Add	91.32	
For Aluminum, Satin Finish, Add	19.18	
For Curved Rail, Add	17.44	
For Aluminum, Clear Anodized Finish, Add	29.68	
For Aluminum, Dark Anodized Finish, Add	34.25	
For Galvanized Finish, Add	13.70	
<b>05 52 13 00-0054 Remove And Reinstall Pipe Railing (05 52 13)</b>		
05 52 13 00-0055 LF Removal And Reinstallation Of Wall Bracket Mounted Pipe Railing.....	18.71	
05 52 13 00-0056 LF Removal And Reinstallation Of Floor Mounted Pipe Railing.....	24.45	
05 52 13 00-0057 EA Install New Galvanized Steel Pipe Railing Bracket.....	42.43	
For Stainless Steel, Add	34.98	

**05 53 Metal Gratings (05 50)**

**05 53 13 Bar Gratings (05 53)**

**05 53 13 00-0001 Welded Grating (05 53 13)**

Note: Sizes are for height and width of bearing bars. Welded grating is open grid grating which has bearing bars and cross bars locked in place by resistance welding, or conventional hand welding. Resistance welded grating is produced on precise automated production equipment by combining hydraulic pressure with a powerful electric current to fuse - electroforge - the cross bar and bearing bar into a single rigid panel.

**05 53 13 00-0002 Steel, Welded Grating (05 53 13 00-0001)**

Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted or tack welded, unpainted steel, and in all sizes.

**05 Metals**  
**05 50 Metal Fabrications**  
**05 53 Metal Gratings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0003	SF		3/4" x 1/8" Steel, Welded Grating.....	7.55	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	0.97	
			For 304 Stainless Steel, Add	18.36	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	1.67	
			For Crossbars At 2" O.C., Add	0.62	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.37	
05 53 13 00-0004	SF		3/4" x 3/16" Steel, Welded Grating.....	9.92	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.38	
			For 304 Stainless Steel, Add	25.97	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	2.36	
			For Crossbars At 2" O.C., Add	0.87	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.43	
05 53 13 00-0005	SF		1" x 1/8" Steel, Welded Grating.....	9.07	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.23	
			For 304 Stainless Steel, Add	23.24	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	2.11	
			For Crossbars At 2" O.C., Add	0.78	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.41	
05 53 13 00-0006	SF		1" x 3/16" Steel, Welded Grating.....	12.29	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.78	
			For 304 Stainless Steel, Add	33.58	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	3.05	
			For Crossbars At 2" O.C., Add	1.13	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.49	
05 53 13 00-0007	SF		1" x 1/4" Steel, Welded Grating.....	15.51	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.33	
			For 304 Stainless Steel, Add	43.91	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	3.99	
			For Crossbars At 2" O.C., Add	1.48	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.57	
05 53 13 00-0008	SF		1-1/4" x 1/8" Steel, Welded Grating .....	10.61	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.49	
			For 304 Stainless Steel, Add	28.18	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	2.56	
			For Crossbars At 2" O.C., Add	0.95	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.45	
05 53 13 00-0009	SF		1-1/4" x 3/16" Steel, Welded Grating .....	14.52	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.16	
			For 304 Stainless Steel, Add	40.73	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	3.71	
			For Crossbars At 2" O.C., Add	1.37	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.54	
05 53 13 00-0010	SF		1-1/2" x 1/8" Steel, Welded Grating .....	12.15	0.91
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	1.75	
			For 304 Stainless Steel, Add	33.13	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	3.01	
			For Crossbars At 2" O.C., Add	1.11	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.48	
05 53 13 00-0011	SF		1-1/2" x 3/16" Steel, Welded Grating .....	17.30	1.12
			For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
			For Galvanized Steel, Add	2.56	
			For 304 Stainless Steel, Add	48.31	
			Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
			For Bearing Bars At 15/16" O.C., Add	4.39	
			For Crossbars At 2" O.C., Add	1.63	
			For Serrated Wear Surface, Add	0.16	
			For Set In Place Without Bolting Or Tack Welding, Deduct	-1.88	





<b>Metals</b>	<b>05</b>	<b>05</b>
Metal Fabrications	05 50	
Metal Gratings	05 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0012	SF		1-1/2" x 1/4" Steel, Welded Grating ..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	22.19 0.22 3.39 64.01 5.82 2.15 0.16 -2.01	1.12
05 53 13 00-0013	SF		1-3/4" x 3/16" Steel, Welded Grating ..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	19.68 0.22 2.96 55.95 5.09 1.88 0.16 -1.94	1.12
05 53 13 00-0014	SF		2" x 3/16" Steel, Welded Grating ..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	21.92 0.22 3.34 63.14 5.74 2.12 0.16 -2.00	1.12
05 53 13 00-0015	SF		2-1/4" x 3/16" Steel, Welded Grating ..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	24.29 0.22 3.75 70.75 6.44 2.38 0.16 -2.06	1.12
05 53 13 00-0016	SF		2-1/2" x 3/16" Steel, Welded Grating ..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	26.52 0.22 4.13 77.91 7.09 2.62 0.16 -2.11	1.12
05 53 13 00-0017			<b>Pressure Locked Grating</b> <sup>(05 53 13)</sup> Note: Sizes are for height and width of bearing bars. Pressure locked grating is an open grid grating which is an assembly of tight-fitting, slotted bearing bars and cross bars, interlocked together. The permanent locking of the bars is accomplished by slotting the bearing bars with a wider 'dovetail' shape at the bottom of the slot. The bearing bar slot is usually 1/2 the depth of the cross bar. The cross bars are slotted to a depth slightly less than half its depth. When the bars are pressed together under hydraulic pressure, the cross bar material is forced into the 'dovetail' shape of the bearing bar notch, forming a strong, rigid unit.		
05 53 13 00-0018			<b>Steel, Pressure Locked Grating</b> <sup>(05 53 13 00-0017)</sup> Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0019	SF		3/4" x 1/8" Steel, Pressure Locked Grating ..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Set In Place Without Bolting Or Tack Welding, Deduct	13.76 0.22 1.96 22.32 3.48 1.29 -1.52	0.91
05 53 13 00-0020	SF		3/4" x 3/16" Steel, Pressure Locked Grating ..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Set In Place Without Bolting Or Tack Welding, Deduct	16.81 0.22 2.46 28.03 4.37 1.62 -1.60	0.91
05 53 13 00-0021	SF		1" x 1/8" Steel, Pressure Locked Grating ..... For One Coat Of Shop Applied Paint (Red Or Black), Add For Galvanized Steel, Add For 304 Stainless Steel, Add Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C. For Bearing Bars At 15/16" O.C., Add For Crossbars At 2" O.C., Add For Serrated Wear Surface, Add For Set In Place Without Bolting Or Tack Welding, Deduct	15.07 0.22 2.17 24.77 3.87 1.43 0.16 -1.56	0.91

05	<b>05 Metals</b>
	05 50 Metal Fabrications
	05 53 Metal Gratings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0022 SF 1" x 3/16" Steel, Pressure Locked Grating.....	20.30	0.91
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.03	
For 304 Stainless Steel, Add	34.56	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 7/16" O.C., Add	26.78	
For Bearing Bars At 15/16" O.C., Add	5.39	
For Crossbars At 2" O.C., Add	1.99	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.69	
05 53 13 00-0023 SF 1-1/4" x 1/8" Steel, Pressure Locked Grating.....	16.81	0.91
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.46	
For 304 Stainless Steel, Add	28.03	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	4.37	
For Crossbars At 2" O.C., Add	1.62	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.60	
05 53 13 00-0024 SF 1-1/4" x 3/16" Steel, Pressure Locked Grating.....	22.72	0.91
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.43	
For 304 Stainless Steel, Add	39.09	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	6.10	
For Crossbars At 2" O.C., Add	2.26	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.75	
05 53 13 00-0025 SF 1-1/2" x 1/8" Steel, Pressure Locked Grating.....	18.64	0.91
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	2.76	
For 304 Stainless Steel, Add	31.45	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	4.91	
For Crossbars At 2" O.C., Add	1.82	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-1.65	
05 53 13 00-0026 SF 1-1/2" x 3/16" Steel, Pressure Locked Grating.....	25.68	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	3.84	
For 304 Stainless Steel, Add	43.84	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 7/16" O.C., Add	33.97	
For Bearing Bars At 15/16" O.C., Add	6.84	
For Crossbars At 2" O.C., Add	2.53	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.09	
05 53 13 00-0027 SF 1-3/4" x 3/16" Steel, Pressure Locked Grating.....	28.23	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.26	
For 304 Stainless Steel, Add	48.61	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	7.59	
For Crossbars At 2" O.C., Add	2.81	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.16	
05 53 13 00-0028 SF 2" x 3/16" Steel, Pressure Locked Grating.....	30.31	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.60	
For 304 Stainless Steel, Add	52.50	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	8.19	
For Crossbars At 2" O.C., Add	3.03	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.21	
05 53 13 00-0029 SF 2-1/4" x 3/16" Steel, Pressure Locked Grating.....	32.31	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	4.93	
For 304 Stainless Steel, Add	56.24	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	8.78	
For Crossbars At 2" O.C., Add	3.25	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.26	
05 53 13 00-0030 SF 2-1/2" x 3/16" Steel, Pressure Locked Grating.....	34.04	1.12
For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22	
For Galvanized Steel, Add	5.21	
For 304 Stainless Steel, Add	59.48	
Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.		
For Bearing Bars At 15/16" O.C., Add	9.28	
For Crossbars At 2" O.C., Add	3.43	
For Serrated Wear Surface, Add	0.16	
For Set In Place Without Bolting Or Tack Welding, Deduct	-2.30	

05 53 13 00-0031 Aluminum, Type 6063, Pressure Locked Grating (05 53 13 00-0017)  
 Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted in place, and in all sizes.



	<b>Metals</b>	<b>05</b>
	Metal Fabrications	05 50
	Metal Gratings	05 53

05

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0032 SF 3/4" x 1/8" Aluminum, Pressure Locked Grating ..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Set In Place Without Bolting, Deduct</i>	10.08 2.41 0.89 -1.43	0.91
05 53 13 00-0033 SF 3/4" x 3/16" Aluminum, Pressure Locked Grating ..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Set In Place Without Bolting, Deduct</i>	13.46 3.40 1.26 -1.52	0.91
05 53 13 00-0034 SF 1" x 1/8" Aluminum, Pressure Locked Grating ..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	12.73 3.18 1.18 0.16 -1.50	0.91
05 53 13 00-0035 SF 1" x 3/16" Aluminum, Pressure Locked Grating ..... <i>For Bearing Bars At 7/16" O.C., Add</i> <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	17.11 22.16 4.46 1.65 0.16 -1.61	0.91
05 53 13 00-0036 SF 1-1/4" x 1/8" Aluminum, Pressure Locked Grating ..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	14.66 3.75 1.39 0.16 -1.55	0.91
05 53 13 00-0037 SF 1-1/4" x 3/16" Aluminum, Pressure Locked Grating ..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	19.43 5.14 1.90 0.16 -1.67	0.91
05 53 13 00-0038 SF 1-1/2" x 1/8" Aluminum, Pressure Locked Grating ..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	16.47 4.27 1.58 0.16 -1.59	0.91
05 53 13 00-0039 SF 1-1/2" x 3/16" Aluminum, Pressure Locked Grating ..... <i>For Bearing Bars At 7/16" O.C., Add</i> <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	21.82 28.99 5.84 2.16 0.16 -1.73	0.91
05 53 13 00-0040 SF 1-3/4" x 3/16" Aluminum, Pressure Locked Grating ..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	24.11 6.51 2.41 0.16 -1.78	0.91
05 53 13 00-0041 SF 2" x 3/16" Aluminum, Pressure Locked Grating ..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	26.82 7.30 2.70 0.16 -1.85	0.91
05 53 13 00-0042 SF 2-1/4" x 3/16" Aluminum, Pressure Locked Grating ..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	28.95 7.92 2.93 0.16 -1.90	0.91
05 53 13 00-0043 SF 2-1/2" x 3/16" Aluminum, Pressure Locked Grating ..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	31.48 8.66 3.20 0.16 -1.97	0.91
<b>05 53 13 00-0044 Swage Locked Grating</b> <small>(05 53 13)</small> Note: Sizes are for height and width of bearing bars. Swage locked grating is an open grid grating where bearing bars are pre-punched to receive a cross bar without penetrating or cutting the top surface of the bearing bar. The cross bar is then inserted through the pre-punched hole and deformed by swaging or squeezing under hydraulic pressure to permanently lock the bars in place.		
<b>05 53 13 00-0045 Steel, Swage Locked Grating</b> <small>(05 53 13 00-0044)</small> Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted or tack welded, unpainted steel, and in all sizes.		
05 53 13 00-0046 SF 1" x 3/16" Steel, Swaged Grating ..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.</i> <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	22.16 0.22 1.87 33.71 13.01 1.63 0.16 -1.73	0.91

<b>05</b>	<b>Metals</b>
<b>05 50</b>	<b>Metal Fabrications</b>
<b>05 53</b>	<b>Metal Gratings</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0047	SF	1-1/4" x 3/16" Steel, Swaged Grating.....	24.66	0.91	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	2.10		
		For 304 Stainless Steel, Add	37.85		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	14.61		
		For Crossbars At 2" O.C., Add	1.83		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-1.80		
05 53 13 00-0048	SF	1-1/2" x 3/16" Steel, Swaged Grating.....	27.05	1.12	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	2.28		
		For 304 Stainless Steel, Add	41.12		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	15.87		
		For Crossbars At 2" O.C., Add	1.98		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.13		
05 53 13 00-0049	SF	1-3/4" x 3/16" Steel, Swaged Grating.....	30.89	1.12	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	2.63		
		For 304 Stainless Steel, Add	47.49		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	18.33		
		For Crossbars At 2" O.C., Add	2.29		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.22		
05 53 13 00-0050	SF	2" x 3/16" Steel, Swaged Grating.....	34.75	1.12	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	2.99		
		For 304 Stainless Steel, Add	53.89		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	20.80		
		For Crossbars At 2" O.C., Add	2.60		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.32		
05 53 13 00-0051	SF	2-1/4" x 3/16" Steel, Swaged Grating.....	38.59	1.12	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	3.34		
		For 304 Stainless Steel, Add	60.25		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	23.26		
		For Crossbars At 2" O.C., Add	2.91		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.42		
05 53 13 00-0052	SF	2-1/2" x 3/16" Steel, Swaged Grating.....	42.45	1.12	
		For One Coat Of Shop Applied Paint (Red Or Black), Add	0.22		
		For Galvanized Steel, Add	3.70		
		For 304 Stainless Steel, Add	66.65		
		Note: Bearing bars at 1-3/16" O.C. and crossbars at 4" O.C.			
		For Bearing Bars At 15/16" O.C., Add	25.73		
		For Crossbars At 2" O.C., Add	3.22		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting Or Tack Welding, Deduct	-2.51		
05 53 13 00-0053		<b>Aluminum Grating, Type 6063, Swage Locked</b> <small>(05 53 13 00-0044)</small>			
		Note: Bearing bars at 1-3/16" O.C., crossbars at 4" O.C., bolted in place, and in all sizes.			
05 53 13 00-0054	SF	1" x 1/8" Aluminum, Swaged Grating.....	11.80	0.91	
		For Bearing Bars At 15/16" O.C., Add	6.38		
		For Crossbars At 2" O.C., Add	0.80		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.48		
05 53 13 00-0055	SF	1" x 3/16" Aluminum, Swaged Grating.....	15.14	0.91	
		For Bearing Bars At 15/16" O.C., Add	8.52		
		For Crossbars At 2" O.C., Add	1.06		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.56		
05 53 13 00-0056	SF	1-1/4" x 1/8" Aluminum, Swaged Grating.....	13.30	0.91	
		For Bearing Bars At 15/16" O.C., Add	7.34		
		For Crossbars At 2" O.C., Add	0.92		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.51		
05 53 13 00-0057	SF	1-1/4" x 3/16" Aluminum, Swaged Grating.....	17.38	0.91	
		For Bearing Bars At 15/16" O.C., Add	9.95		
		For Crossbars At 2" O.C., Add	1.24		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.61		
05 53 13 00-0058	SF	1-1/2" x 1/8" Aluminum, Swaged Grating.....	15.08	0.91	
		For Bearing Bars At 15/16" O.C., Add	8.48		
		For Crossbars At 2" O.C., Add	1.06		
		For Serrated Wear Surface, Add	0.16		
		For Set In Place Without Bolting, Deduct	-1.56		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0059	SF		1-1/2" x 3/16" Aluminum, Swaged Grating..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	19.79 11.49 1.44 0.16 -1.68	0.91
05 53 13 00-0060	SF		1-3/4" x 3/16" Aluminum, Swaged Grating..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	22.56 13.27 1.66 0.16 -1.74	0.91
05 53 13 00-0061	SF		2" x 3/16" Aluminum, Swaged Grating..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	25.32 15.03 1.88 0.16 -1.81	0.91
05 53 13 00-0062	SF		2-1/4" x 3/16" Aluminum, Swaged Grating..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	28.09 16.81 2.10 0.16 -1.88	0.91
05 53 13 00-0063	SF		2-1/2" x 3/16" Aluminum, Swaged Grating..... <i>For Bearing Bars At 15/16" O.C., Add</i> <i>For Crossbars At 2" O.C., Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting, Deduct</i>	30.84 18.57 2.32 0.16 -1.95	0.91
05 53 13 00-0064			<b>Riveted Grating</b> <small>(05 53 13)</small> Note: Riveted grating is an open grid grating where bearing bars are pre-punched to receive a solid round rivet. Crimp/lacing bars are pre-punched as well and then formed into a reticulated shape. Bearing bars and crimp bars are then assembled and clamped in place by rivets which are cold driven under hydraulic pressure to permanently lock the assembly together.		
05 53 13 00-0065			<b>Steel, Riveted Grating</b> <small>(05 53 13 00-0064)</small> Note: 1" clear opening, bolted or tack welded in place, unpainted steel, all sizes.		
05 53 13 00-0066	SF		3/4" x 1/8", 7.0 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	41.59 0.22 1.91 34.15 13.72 -2.22	0.91
05 53 13 00-0067	SF		3/4" x 3/16", 8.5 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	48.87 0.22 2.26 40.41 16.23 -2.40	0.91
05 53 13 00-0068	SF		1" x 1/8", 8.0 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	44.94 0.22 2.07 37.03 14.87 0.16 -2.30	0.91
05 53 13 00-0069	SF		1" x 3/16", 9.5 LB/SF, Steel, Riveted Grating..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	51.64 0.22 2.39 42.79 17.18 0.16 -2.47	0.91
05 53 13 00-0070	SF		1-1/4" x 1/8", 9.0 LB/SF, Steel, Riveted Grating ..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	47.72 0.22 2.20 39.42 15.83 0.16 -2.37	0.91
05 53 13 00-0071	SF		1-1/4" x 3/16", 11.1 LB/SF, Steel, Riveted Grating ..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	56.81 0.22 2.64 47.23 18.97 0.16 -2.60	0.91
05 53 13 00-0072	SF		1-1/2" x 1/8", 10.1 LB/SF, Steel, Riveted Grating ..... <i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i> <i>For Galvanized Steel, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 5/8" Clear Opening, Add</i> <i>For Serrated Wear Surface, Add</i> <i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	50.81 0.22 2.33 41.71 16.75 0.16 -2.72	1.12



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 53 13 00-0073	SF		1-1/2" x 3/16", 12.5 LB/SF, Steel, Riveted Grating.....	60.53	1.12
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	2.80	
			<i>For 304 Stainless Steel, Add</i>	50.06	
			<i>For 5/8" Clear Opening, Add</i>	20.11	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-2.96	
05 53 13 00-0074	SF		1-3/4" x 3/16", 14.0 LB/SF, Steel, Riveted Grating.....	65.49	1.12
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	3.04	
			<i>For 304 Stainless Steel, Add</i>	54.32	
			<i>For 5/8" Clear Opening, Add</i>	21.82	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-3.09	
05 53 13 00-0075	SF		2" x 3/16", 17.0 LB/SF, Steel, Riveted Grating.....	76.56	1.12
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	3.57	
			<i>For 304 Stainless Steel, Add</i>	63.83	
			<i>For 5/8" Clear Opening, Add</i>	25.64	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-3.37	
05 53 13 00-0076	SF		2-1/4" x 3/16", 18.5 LB/SF, Steel, Riveted Grating.....	80.41	1.12
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	3.75	
			<i>For 304 Stainless Steel, Add</i>	67.14	
			<i>For 5/8" Clear Opening, Add</i>	26.97	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-3.46	
05 53 13 00-0077	SF		2-1/2" x 3/16", 20.0 LB/SF, Steel, Riveted Grating.....	83.85	1.12
			<i>For One Coat Of Shop Applied Paint (Red Or Black), Add</i>	0.22	
			<i>For Galvanized Steel, Add</i>	3.92	
			<i>For 304 Stainless Steel, Add</i>	70.09	
			<i>For 5/8" Clear Opening, Add</i>	28.15	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting Or Tack Welding, Deduct</i>	-3.55	
<b>05 53 13 00-0078</b>			<b>Aluminum, Riveted Grating</b> <small>(05 53 13 00-0064)</small>		
			Note: 1" clear opening, bolted in place and in all sizes.		
05 53 13 00-0079	SF		3/4" x 1/8", 2.4 LB/SF, Aluminum, Riveted Grating.....	24.60	0.91
			<i>For 5/8" Clear Opening, Add</i>	7.86	
			<i>For Set In Place Without Bolting, Deduct</i>	-1.80	
05 53 13 00-0080	SF		3/4" x 3/16", 2.9 LB/SF, Aluminum, Riveted Grating.....	29.11	0.91
			<i>For 5/8" Clear Opening, Add</i>	9.41	
			<i>For Set In Place Without Bolting, Deduct</i>	-1.91	
05 53 13 00-0081	SF		1" x 1/8", 2.7 LB/SF, Aluminum, Riveted Grating.....	27.01	0.91
			<i>For 5/8" Clear Opening, Add</i>	8.69	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-1.86	
05 53 13 00-0082	SF		1" x 3/16", 3.2 LB/SF, Aluminum, Riveted Grating.....	31.41	0.91
			<i>For 5/8" Clear Opening, Add</i>	10.21	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-1.97	
05 53 13 00-0083	SF		1-1/4" x 1/8", 3.1 LB/SF, Aluminum, Riveted Grating.....	30.23	0.91
			<i>For 5/8" Clear Opening, Add</i>	9.80	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-1.94	
05 53 13 00-0084	SF		1-1/4" x 3/16", 3.8 LB/SF, Aluminum, Riveted Grating.....	36.34	0.91
			<i>For 5/8" Clear Opening, Add</i>	11.91	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.09	
05 53 13 00-0085	SF		1-1/2" x 1/8", 3.4 LB/SF, Aluminum, Riveted Grating.....	32.43	0.91
			<i>For 5/8" Clear Opening, Add</i>	10.56	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-1.99	
05 53 13 00-0086	SF		1-1/2" x 3/16", 4.3 LB/SF, Aluminum, Riveted Grating.....	40.19	0.91
			<i>For 5/8" Clear Opening, Add</i>	13.23	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.19	
05 53 13 00-0087	SF		1-3/4" x 3/16", 4.8 LB/SF, Aluminum, Riveted Grating.....	44.25	0.91
			<i>For 5/8" Clear Opening, Add</i>	14.63	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.29	
05 53 13 00-0088	SF		2" x 3/16", 5.8 LB/SF, Aluminum, Riveted Grating.....	52.61	0.91
			<i>For 5/8" Clear Opening, Add</i>	17.52	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.50	
05 53 13 00-0089	SF		2-1/4" x 3/16", 6.4 LB/SF, Aluminum, Riveted Grating.....	57.34	0.91
			<i>For 5/8" Clear Opening, Add</i>	19.15	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.61	
05 53 13 00-0090	SF		2-1/2" x 3/16", 7.2 LB/SF, Aluminum, Riveted Grating.....	63.70	0.91
			<i>For 5/8" Clear Opening, Add</i>	21.35	
			<i>For Serrated Wear Surface, Add</i>	0.16	
			<i>For Set In Place Without Bolting, Deduct</i>	-2.77	



	<b>Metals</b>	<b>05</b>	
	Metal Fabrications	05 50	05
	Metal Floor Plates	05 54	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**05 54 Metal Floor Plates (05 50)**

**05 54 00 00-0001 Steel Floor Plates (05 54)**

05 54 00 00-0002	SF	16 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	11.19	1.08
05 54 00 00-0003	SF	14 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	12.73	1.08
05 54 00 00-0004	SF	12 Gauge Steel Raised Or Diamond Pattern Floor Plates.....	15.83	1.08
05 54 00 00-0005	SF	1/8" Steel Raised Or Diamond Pattern Floor Plates.....	21.13	1.16
05 54 00 00-0006	SF	1/4" Steel Raised Or Diamond Pattern Floor Plates.....	26.69	1.24

**05 54 00 00-0007 Aluminum Alloy Floor Plates (05 54)**

05 54 00 00-0008	SF	0.125" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	16.57	0.91
05 54 00 00-0009	SF	0.188" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	19.00	1.08
05 54 00 00-0010	SF	0.25" Aluminum Alloy Raised Or Diamond Pattern Floor Plate.....	21.45	1.16

**05 54 00 00-0011 Type 304 Stainless Steel Floor Plates (05 54)**

05 54 00 00-0012	SF	1/8" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	26.92	1.24
05 54 00 00-0013	SF	3/16" Type 304 Stainless Steel Raised Or Diamond Pattern Floor Plate.....	32.17	1.42
05 54 00 00-0014	SF	1/4" Type 304 Stainless Raised Or Diamond Pattern Steel Floor Plate.....	41.67	1.66

**05 55 Metal Stair Treads And Nosings (05 50)**

**05 55 13 Metal Stair Treads (05 55)**

**05 55 13 00-0001 Abrasive Cast Aluminum Stair Treads (05 55 13)**

Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.

05 55 13 00-0002	LF	8" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	42.45	5.58
		For 3/8" Thick, Add	8.38	
05 55 13 00-0003	LF	9" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	46.37	5.58
		For 3/8" Thick, Add	9.36	
05 55 13 00-0004	LF	10" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	50.28	5.58
		For 3/8" Thick, Add	10.34	
05 55 13 00-0005	LF	11" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	54.21	5.58
		For 3/8" Thick, Add	11.32	
05 55 13 00-0006	LF	12" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Stair Tread.....	58.11	5.58
		For 3/8" Thick, Add	12.30	

**05 55 13 00-0007 Abrasive Cast Iron Stair Treads (05 55 13)**

Note: Includes abrasive diamond pattern surface and anchors. Excludes stringers.

05 55 13 00-0008	LF	8" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	57.65	5.58
05 55 13 00-0009	LF	9" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	63.46	5.58
05 55 13 00-0010	LF	10" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	69.27	5.58
05 55 13 00-0011	LF	11" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	75.08	5.58
05 55 13 00-0012	LF	12" Depth, 3/8" Thick, 1/4" Lip, Abrasive Cast Iron Stair Tread.....	80.90	5.58

**05 55 13 00-0013 Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Treads (05 55 13)**

Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.

05 55 13 00-0014	LF	6-1/2" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	24.13	5.58
05 55 13 00-0015	LF	9" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	27.68	5.58
05 55 13 00-0016	LF	11" Depth, 5/32" Thick, 1-1/16" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Safety Stair Tread.....	29.24	5.58

**05 55 13 00-0017 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Treads (05 55 13)**

Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors. Excludes stringers.

05 55 13 00-0018	LF	8" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	33.93	5.58
		For Epoxy Sealed For Corrosive Environment, Add	2.47	
		For Two Color Tread, Add	1.85	
05 55 13 00-0019	LF	9" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	34.22	5.58
		For Epoxy Sealed For Corrosive Environment, Add	2.47	
		For Two Color Tread, Add	1.85	
05 55 13 00-0020	LF	11" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	40.61	5.58
		For Epoxy Sealed For Corrosive Environment, Add	2.47	
		For Two Color Tread, Add	1.85	
05 55 13 00-0021	LF	12" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	46.20	5.58
		For Epoxy Sealed For Corrosive Environment, Add	2.47	
		For Two Color Tread, Add	1.85	
05 55 13 00-0022	LF	15" Depth, 9/32" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Tread.....	53.50	5.58
		For Epoxy Sealed For Corrosive Environment, Add	2.47	
		For Two Color Tread, Add	1.85	

**05 55 13 00-0023 Stair Landing Treads (05 55 13)**

<b>05</b>	<b>05 Metals</b>
	<b>05 50 Metal Fabrications</b>
	<b>05 55 Metal Stair Treads And Nosings</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>05 55 13 00-0024 Abrasive Cast Aluminum Stair Landing Treads</b> <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0025 SF 5/16" Thick, Abrasive Cast Aluminum Landing Treads..... <i>For 3/8" Thick, Add</i>	58.11 12.30	5.58
<b>05 55 13 00-0026 Abrasive Cast Iron Stair Landing Treads</b> <small>(05 55 13 00-0023)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 13 00-0027 SF 3/8" Thick, Abrasive Cast Iron Landing Treads.....	80.90	5.58
<b>05 55 13 00-0028 Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads</b> <small>(05 55 13 00-0023)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 13 00-0029 SF 9/32" Thick, Aluminum/Ceramic Grit Coating, Extruded Aluminum Renovation Stair Landing Treads..... <i>For Epoxy Sealed For Corrosive Environment, Add</i>	54.14 2.47	5.58
<b>05 55 13 00-0030 Open Cast Iron Stair Tread</b> <small>(05 55 13)</small> Note: Includes steel stringers, safety nosing and 2 pipe handrail. Excludes landings.		
05 55 13 00-0031 RSR 3'-6" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	388.07 33.05	33.26
05 55 13 00-0032 RSR 4'-0" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	438.33 37.22	38.24
05 55 13 00-0033 RSR 5'-0" Wide, Open Cast Iron Stair Tread..... <i>For Closed Riser, Add</i>	484.52 41.08	44.89
<b>05 55 16 Metal Stair Nosings</b> <small>(05 55)</small>		
<b>05 55 16 00-0001 Abrasive Cast Aluminum Nosings</b> <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0002 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... <i>For 3/8" Thick, Add</i>	18.88 3.20	3.80
05 55 16 00-0003 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... <i>For 3/8" Thick, Add</i>	22.66 4.14	3.80
05 55 16 00-0004 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Aluminum Nosing..... <i>For 3/8" Thick, Add</i>	31.09 6.25	3.80
<b>05 55 16 00-0005 Abrasive Cast Iron Nosings</b> <small>(05 55 16)</small> Note: Includes abrasive diamond pattern surface and anchors.		
05 55 16 00-0006 LF 3" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	21.64 3.89	3.80
05 55 16 00-0007 LF 4" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	26.30 5.05	3.80
05 55 16 00-0008 LF 6" Depth, 5/16" Thick, 1/4" Lip, Abrasive Cast Iron Nosing..... <i>For 3/8" Thick, Add</i>	35.50 7.35	3.80
<b>05 55 16 00-0009 Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosings</b> <small>(05 55 16)</small> Note: Includes extruded aluminum base with diamond hard aluminum oxide abrasive filler/surface. Includes anchors.		
05 55 16 00-0010 LF 1-7/8" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	16.31	3.80
05 55 16 00-0011 LF 3" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	18.14	3.80
05 55 16 00-0012 LF 4" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	19.53	3.80
05 55 16 00-0013 LF 6" Depth, 1/4" Thick, 1/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	23.85	3.80
05 55 16 00-0014 LF 1-7/8" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	16.80	3.80
05 55 16 00-0015 LF 3" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	18.36	3.80
05 55 16 00-0016 LF 4" Depth, 1/4" Thick, 1-1/8" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	19.90	3.80
05 55 16 00-0017 LF 3" Depth, 1/4" Thick, 1-3/4" Lip, Aluminum/Ceramic Grit Coating, Extruded Aluminum Nosing.....	18.96	3.80
<b>05 56 Metal Castings</b> <small>(05 50)</small>		
<b>05 56 00 00-0001 Castings</b> <small>(05 56)</small>		
05 56 00 00-0002 LB Up To 150 LB, Miscellaneous Castings, Light Section.....	3.16	0.41
05 56 00 00-0003 LB >150 LB, Miscellaneous Castings, Heavy Section.....	5.19	0.33
<b>05 58 Formed Metal Fabrications</b> <small>(05 50)</small>		
<b>05 58 16 Formed Metal Enclosures</b> <small>(05 58)</small>		
<b>05 58 16 00-0001 Drip Pan</b> <small>(05 58 16)</small>		
05 58 16 00-0002 SF Stainless Steel Drip Pan.....	65.31	6.02
05 58 16 00-0003 SF Galvanized Steel Drip Pan.....	64.57	6.02
05 58 16 00-0004 SF Aluminum Drip Pan.....	45.80	4.81
05 58 16 00-0005 SF Plastic Drip Pan.....	14.21	4.21





	<b>Metals</b>	<b>05</b>
	<b>Metal Fabrications</b>	<b>05 50</b>
	<b>Formed Metal Fabrications</b>	<b>05 58</b>

05

MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>05 58 23</b>	<b>Formed Metal Guards (05 58)</b>		
05 58 23 00-0001	Protective Guard Rails (05 58 23) Note: Includes painted finish.		
05 58 23 00-0002	2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001) Note: Steel King Armor Guard.		
05 58 23 00-0003	Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0002) Note: Excludes posts. Includes fasteners.		
05 58 23 00-0004	EA 1' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	121.78	18.27
05 58 23 00-0005	EA 2' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	141.37	18.27
05 58 23 00-0006	EA 3' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	159.85	18.27
05 58 23 00-0007	EA 4' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	179.44	18.27
05 58 23 00-0008	EA 5' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	198.03	18.27
05 58 23 00-0009	EA 6' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	222.12	18.27
05 58 23 00-0010	EA 7' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	238.54	18.27
05 58 23 00-0011	EA 8' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	263.95	18.27
05 58 23 00-0012	EA 9' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	280.63	18.27
05 58 23 00-0013	EA 10' Length, 10-1/2" Height, Bolt-On, 2-Rib, 11 Gauge Steel, Protective Guard Rail	292.55	18.27
05 58 23 00-0014	Posts For 2-Rib Guard Rails (05 58 23 00-0002) Note: Includes drilling, surface mounting plate and anchors.		
05 58 23 00-0015	EA 12" Height, Single Rail Post For 2-Rib Guard Rails	249.78	38.05
05 58 23 00-0016	EA 42" Height, Triple Rail Post For 2-Rib Guard Rails	317.82	38.05
05 58 23 00-0017	3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0001) Note: Steel King Steel Guard.		
05 58 23 00-0018	Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017) Note: Excludes posts. Includes fasteners.		
05 58 23 00-0019	EA 1' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	133.59	18.27
05 58 23 00-0020	EA 2' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	146.61	18.27
05 58 23 00-0021	EA 3' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	162.87	18.27
05 58 23 00-0022	EA 4' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	178.07	18.27
05 58 23 00-0023	EA 5' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	195.65	18.27
05 58 23 00-0024	EA 6' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	204.12	18.27
05 58 23 00-0025	EA 7' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	224.50	18.27
05 58 23 00-0026	EA 8' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	241.71	18.27
05 58 23 00-0027	EA 9' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	259.98	18.27
05 58 23 00-0028	EA 10' Length, 15" Height, Bolt-On, 3-Rib, 11 Gauge Steel, Protective Guard Rail	278.51	18.27
05 58 23 00-0029	Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rails (05 58 23 00-0017) Note: Excludes posts. Includes fasteners and lift-out mounting plate.		
05 58 23 00-0030	EA 1' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	192.20	18.27
05 58 23 00-0031	EA 2' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	206.50	18.27
05 58 23 00-0032	EA 3' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	221.33	18.27
05 58 23 00-0033	EA 4' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	238.54	18.27
05 58 23 00-0034	EA 5' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	255.75	18.27
05 58 23 00-0035	EA 6' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	269.78	18.27
05 58 23 00-0036	EA 7' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	285.93	18.27
05 58 23 00-0037	EA 8' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	304.20	18.27
05 58 23 00-0038	EA 9' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	323.79	18.27
05 58 23 00-0039	EA 10' Length, 15" Height, Lift-Out, 3-Rib, 11 Gauge Steel, Protective Guard Rail	341.00	18.27
05 58 23 00-0040	Posts For 3-Rib Guard Rails (05 58 23 00-0017) Note: Includes drilling, surface mounting plate and anchors.		
05 58 23 00-0041	EA 18" Height, Single Rail Post For 3-Rib Guard Rails	222.67	38.05
05 58 23 00-0042	EA 42" Height, Double Rail Post For 3-Rib Guard Rails	277.84	38.05
05 58 23 00-0043	All-Welded, Protective Guards (05 58 23) Note: Surface mounted inverted-U style protective barriers. Includes painted finish, drilling, surface mounting plate and anchors.		
05 58 23 00-0044	All-Welded, Protective Guards (05 58 23 00-0043)		
05 58 23 00-0045	EA 36" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	291.29	50.73
05 58 23 00-0046	EA 48" Length, 9" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	304.53	50.73
05 58 23 00-0047	EA 36" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	312.20	50.73
05 58 23 00-0048	EA 48" Length, 16" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	323.59	50.73
05 58 23 00-0049	EA 36" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	320.94	50.73
05 58 23 00-0050	EA 48" Length, 24" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	334.97	50.73
05 58 23 00-0051	EA 36" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	338.94	50.73
05 58 23 00-0052	EA 48" Length, 36" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	343.44	50.73
05 58 23 00-0053	EA 48" Length, 42" Height, 4-1/2" Diameter Steel Pipe, All-Welded, Protective Guard	364.89	50.73
05 58 23 00-0054	Corner Style, All-Welded, Protective Guards (05 58 23 00-0043)		
05 58 23 00-0055	EA 24" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard	373.36	50.73

<b>05</b>	<b>05 Metals</b>
	<b>05 50 Metal Fabrications</b>
	<b>05 58 Formed Metal Fabrications</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	05 58 23 00-0056	EA	30" Length, 24" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	389.25	50.73
	05 58 23 00-0057	EA	24" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	395.87	50.73
	05 58 23 00-0058	EA	30" Length, 36" Height, 4-1/2" Diameter Steel Pipe, Corner Style, All-Welded, Protective Guard.....	428.43	50.73
<b>05 58 23 00-0059</b>			<b>Warehouse Safety Bollards</b> <small>(05 58 23)</small>		
			Note: Includes painted finish, drilling, surface mounting plate and anchors.		
	05 58 23 00-0060	EA	24" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	187.82	38.05
	05 58 23 00-0061	EA	36" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	213.97	38.05
	05 58 23 00-0062	EA	42" Height, 4-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	241.67	38.05
	05 58 23 00-0063	EA	36" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	249.24	38.05
	05 58 23 00-0064	EA	42" Height, 5-1/2" Diameter Steel Pipe, Bolt Down, Warehouse Safety Bollard.....	266.71	38.05
<b>05 59 Metal Specialties</b> <small>(05 50)</small>					
<b>05 59 65 Chain</b> <small>(05 59)</small>					
<b>05 59 65 00-0001</b>			<b>Alloy Steel Chain, Self Colored, Cut Length</b> <small>(05 59 65)</small>		
			Note: Includes all connecting links, double clevis mid-Links, slip or grab hooks, or shackles as required.		
	05 59 65 00-0002	LF	3/16" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	3.89	0.81
			<i>For Plastic Dipped, Add</i>	0.34	
	05 59 65 00-0003	LF	1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	5.22	1.07
			<i>For Plastic Dipped, Add</i>	0.46	
	05 59 65 00-0004	LF	3/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	8.44	2.14
			<i>For Plastic Dipped, Add</i>	0.62	
	05 59 65 00-0005	LF	1/2" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	13.61	3.62
			<i>For Plastic Dipped, Add</i>	0.96	
	05 59 65 00-0006	LF	5/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	22.97	6.11
			<i>For Plastic Dipped, Add</i>	1.61	
	05 59 65 00-0007	LF	3/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	32.24	8.58
			<i>For Plastic Dipped, Add</i>	2.26	
	05 59 65 00-0008	LF	7/8" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	43.56	10.72
			<i>For Plastic Dipped, Add</i>	3.32	
	05 59 65 00-0009	LF	1" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	62.50	14.29
			<i>For Plastic Dipped, Add</i>	5.09	
	05 59 65 00-0010	LF	1-1/4" Diameter Alloy Steel Chain, Cut Length, Self Colored.....	100.92	21.44
			<i>For Plastic Dipped, Add</i>	8.71	
<b>05 59 69 Metal Panels</b> <small>(05 59)</small>					
<b>05 59 69 00-0001</b>			<b>Woven And Welded Wire Cloth</b> <small>(05 59 69)</small>		
			Note: Excludes frame and fastening to frame. See CSI section 05 12 23 00-0129 for spot welding.		
<b>05 59 69 00-0002</b>			<b>Plain Steel Woven And Welded Wire Cloth Panels</b> <small>(05 59 69 00-0001)</small>		
<b>05 59 69 00-0003</b>			<b>2" Square Wire Spacing</b> <small>(05 59 69 00-0002)</small>		
	05 59 69 00-0004	SF	0.12" Thick Wire, 2" Spacing, 0.44 LB/SF Woven And Welded Wire Cloth Panels.....	6.68	2.29
			<i>For Up To 2, Add</i>	1.95	
			<i>For &gt;2 To 6, Add</i>	1.13	
			<i>For &gt;15 To 40, Deduct</i>	-0.18	
			<i>For &gt;40, Deduct</i>	-0.54	
			<i>For Galvanized, Add</i>	1.82	
			<i>For Aluminum, Add</i>	2.18	
			<i>For 304 Stainless Steel, Add</i>	8.71	
			<i>For 316 Stainless Steel, Add</i>	9.98	
	05 59 69 00-0005	SF	0.135" Thick Wire, 2" Spacing, 0.55 LB/SF Woven And Welded Wire Cloth Panels.....	7.17	2.39
			<i>For Up To 2, Add</i>	2.07	
			<i>For &gt;2 To 6, Add</i>	1.19	
			<i>For &gt;15 To 40, Deduct</i>	-0.20	
			<i>For &gt;40, Deduct</i>	-0.60	
			<i>For Galvanized, Add</i>	2.00	
			<i>For Aluminum, Add</i>	2.39	
			<i>For 304 Stainless Steel, Add</i>	9.58	
			<i>For 316 Stainless Steel, Add</i>	10.97	
	05 59 69 00-0006	SF	0.148" Thick Wire, 2" Spacing, 0.65 LB/SF Woven And Welded Wire Cloth Panels.....	7.64	2.64
			<i>For Up To 2, Add</i>	2.23	
			<i>For &gt;2 To 6, Add</i>	1.29	
			<i>For &gt;15 To 40, Deduct</i>	-0.21	
			<i>For &gt;40, Deduct</i>	-0.62	
			<i>For Galvanized, Add</i>	2.06	
			<i>For Aluminum, Add</i>	2.47	
			<i>For 304 Stainless Steel, Add</i>	9.89	
			<i>For 316 Stainless Steel, Add</i>	11.33	
	05 59 69 00-0007	SF	0.162" Thick Wire, 2" Spacing, 0.78 LB/SF Woven And Welded Wire Cloth Panels.....	8.05	2.75
			<i>For Up To 2, Add</i>	2.34	
			<i>For &gt;2 To 6, Add</i>	1.36	
			<i>For &gt;15 To 40, Deduct</i>	-0.22	
			<i>For &gt;40, Deduct</i>	-0.66	
			<i>For Galvanized, Add</i>	2.19	
			<i>For Aluminum, Add</i>	2.63	
			<i>For 304 Stainless Steel, Add</i>	10.51	
			<i>For 316 Stainless Steel, Add</i>	12.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0008	SF		0.177" Thick Wire, 2" Spacing, 0.92 LB/SF Woven And Welded Wire Cloth Panels .....	8.83	3.09
			For Up To 2, Add	2.59	
			For >2 To 6, Add	1.50	
			For >15 To 40, Deduct	-0.24	
			For >40, Deduct	-0.71	
			For Galvanized, Add	2.36	
			For Aluminum, Add	2.83	
			For 304 Stainless Steel, Add	11.30	
			For 316 Stainless Steel, Add	12.95	
05 59 69 00-0009	SF		0.192" Thick Wire, 2" Spacing, 1.08 LB/SF Woven And Welded Wire Cloth Panels .....	10.12	3.44
			For Up To 2, Add	2.94	
			For >2 To 6, Add	1.70	
			For >15 To 40, Deduct	-0.28	
			For >40, Deduct	-0.83	
			For Galvanized, Add	2.77	
			For Aluminum, Add	3.32	
			For 304 Stainless Steel, Add	13.27	
			For 316 Stainless Steel, Add	15.21	
05 59 69 00-0010	SF		0.207" Thick Wire, 2" Spacing, 1.25 LB/SF Woven And Welded Wire Cloth Panels .....	11.44	3.78
			For Up To 2, Add	3.30	
			For >2 To 6, Add	1.90	
			For >15 To 40, Deduct	-0.32	
			For >40, Deduct	-0.96	
			For Galvanized, Add	3.20	
			For Aluminum, Add	3.84	
			For 304 Stainless Steel, Add	15.36	
			For 316 Stainless Steel, Add	17.60	
05 59 69 00-0011	SF		0.225" Thick Wire, 2" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels .....	13.07	4.20
			For Up To 2, Add	3.73	
			For >2 To 6, Add	2.15	
			For >15 To 40, Deduct	-0.37	
			For >40, Deduct	-1.12	
			For Galvanized, Add	3.74	
			For Aluminum, Add	4.48	
			For 304 Stainless Steel, Add	17.93	
			For 316 Stainless Steel, Add	20.54	
<b>05 59 69 00-0012</b>			<b>1-3/4" Square Wire Spacing <small>(05 59 69 00-0002)</small></b>		
05 59 69 00-0013	SF		0.12" Thick Wire, 1-3/4" Spacing, 0.49 LB/SF Woven And Welded Wire Cloth Panels .....	7.01	2.43
			For Up To 2, Add	2.05	
			For >2 To 6, Add	1.19	
			For >15 To 40, Deduct	-0.19	
			For >40, Deduct	-0.57	
			For Galvanized, Add	1.89	
			For Aluminum, Add	2.27	
			For 304 Stainless Steel, Add	9.07	
			For 316 Stainless Steel, Add	10.40	
05 59 69 00-0014	SF		0.135" Thick Wire, 1-3/4" Spacing, 0.62 LB/SF Woven And Welded Wire Cloth Panels .....	7.69	2.56
			For Up To 2, Add	2.22	
			For >2 To 6, Add	1.28	
			For >15 To 40, Deduct	-0.21	
			For >40, Deduct	-0.64	
			For Galvanized, Add	2.14	
			For Aluminum, Add	2.57	
			For 304 Stainless Steel, Add	10.27	
			For 316 Stainless Steel, Add	11.77	
05 59 69 00-0015	SF		0.148" Thick Wire, 1-3/4" Spacing, 0.74 LB/SF Woven And Welded Wire Cloth Panels .....	8.30	2.87
			For Up To 2, Add	2.43	
			For >2 To 6, Add	1.40	
			For >15 To 40, Deduct	-0.22	
			For >40, Deduct	-0.67	
			For Galvanized, Add	2.24	
			For Aluminum, Add	2.68	
			For 304 Stainless Steel, Add	10.73	
			For 316 Stainless Steel, Add	12.29	
05 59 69 00-0016	SF		0.162" Thick Wire, 1-3/4" Spacing, 0.88 LB/SF Woven And Welded Wire Cloth Panels .....	8.66	2.96
			For Up To 2, Add	2.52	
			For >2 To 6, Add	1.46	
			For >15 To 40, Deduct	-0.24	
			For >40, Deduct	-0.71	
			For Galvanized, Add	2.36	
			For Aluminum, Add	2.83	
			For 304 Stainless Steel, Add	11.30	
			For 316 Stainless Steel, Add	12.95	
05 59 69 00-0017	SF		0.177" Thick Wire, 1-3/4" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels .....	9.50	3.32
			For Up To 2, Add	2.79	
			For >2 To 6, Add	1.61	
			For >15 To 40, Deduct	-0.25	
			For >40, Deduct	-0.76	
			For Galvanized, Add	2.54	
			For Aluminum, Add	3.04	
			For 304 Stainless Steel, Add	12.17	
			For 316 Stainless Steel, Add	13.94	

05	<b>05</b>	<b>Metals</b>
	05 50	Metal Fabrications
	05 59	Metal Specialties



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0018 SF 0.192" Thick Wire, 1-3/4" Spacing, 1.22 LB/SF Woven And Welded Wire Cloth Panels .....	10.89	3.70
For Up To 2, Add	3.17	
For >2 To 6, Add	1.83	
For >15 To 40, Deduct	-0.30	
For >40, Deduct	-0.89	
For Galvanized, Add	2.98	
For Aluminum, Add	3.57	
For 304 Stainless Steel, Add	14.28	
For 316 Stainless Steel, Add	16.36	
05 59 69 00-0019 SF 0.207" Thick Wire, 1-3/4" Spacing, 1.41 LB/SF Woven And Welded Wire Cloth Panels .....	12.29	4.07
For Up To 2, Add	3.54	
For >2 To 6, Add	2.04	
For >15 To 40, Deduct	-0.34	
For >40, Deduct	-1.03	
For Galvanized, Add	3.44	
For Aluminum, Add	4.12	
For 304 Stainless Steel, Add	16.49	
For 316 Stainless Steel, Add	18.89	
05 59 69 00-0020 SF 0.225" Thick Wire, 1-3/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels .....	14.07	4.52
For Up To 2, Add	4.02	
For >2 To 6, Add	2.31	
For >15 To 40, Deduct	-0.40	
For >40, Deduct	-1.21	
For Galvanized, Add	4.02	
For Aluminum, Add	4.82	
For 304 Stainless Steel, Add	19.30	
For 316 Stainless Steel, Add	22.11	
<b>05 59 69 00-0021 1-1/2" Square Wire Spacing (05 59 69 00-0002)</b>		
05 59 69 00-0022 SF 0.12" Thick Wire, 1-1/2" Spacing, 0.57 LB/SF Woven And Welded Wire Cloth Panels .....	7.77	2.70
For Up To 2, Add	2.27	
For >2 To 6, Add	1.31	
For >15 To 40, Deduct	-0.21	
For >40, Deduct	-0.63	
For Galvanized, Add	2.10	
For Aluminum, Add	2.51	
For 304 Stainless Steel, Add	10.06	
For 316 Stainless Steel, Add	11.52	
05 59 69 00-0023 SF 0.135" Thick Wire, 1-1/2" Spacing, 0.72 LB/SF Woven And Welded Wire Cloth Panels .....	8.50	2.83
For Up To 2, Add	2.45	
For >2 To 6, Add	1.42	
For >15 To 40, Deduct	-0.24	
For >40, Deduct	-0.71	
For Galvanized, Add	2.37	
For Aluminum, Add	2.84	
For 304 Stainless Steel, Add	11.35	
For 316 Stainless Steel, Add	13.01	
05 59 69 00-0024 SF 0.148" Thick Wire, 1-1/2" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels .....	9.08	3.14
For Up To 2, Add	2.65	
For >2 To 6, Add	1.54	
For >15 To 40, Deduct	-0.24	
For >40, Deduct	-0.73	
For Galvanized, Add	2.45	
For Aluminum, Add	2.93	
For 304 Stainless Steel, Add	11.74	
For 316 Stainless Steel, Add	13.45	
05 59 69 00-0025 SF 0.162" Thick Wire, 1-1/2" Spacing, 1.02 LB/SF Woven And Welded Wire Cloth Panels .....	9.56	3.27
For Up To 2, Add	2.78	
For >2 To 6, Add	1.61	
For >15 To 40, Deduct	-0.26	
For >40, Deduct	-0.78	
For Galvanized, Add	2.60	
For Aluminum, Add	3.12	
For 304 Stainless Steel, Add	12.48	
For 316 Stainless Steel, Add	14.30	
05 59 69 00-0026 SF 0.177" Thick Wire, 1-1/2" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels .....	10.44	3.65
For Up To 2, Add	3.06	
For >2 To 6, Add	1.77	
For >15 To 40, Deduct	-0.28	
For >40, Deduct	-0.84	
For Galvanized, Add	2.79	
For Aluminum, Add	3.34	
For 304 Stainless Steel, Add	13.37	
For 316 Stainless Steel, Add	15.32	
05 59 69 00-0027 SF 0.192" Thick Wire, 1-1/2" Spacing, 1.4 LB/SF Woven And Welded Wire Cloth Panels .....	11.90	4.05
For Up To 2, Add	3.46	
For >2 To 6, Add	2.00	
For >15 To 40, Deduct	-0.33	
For >40, Deduct	-0.98	
For Galvanized, Add	3.25	
For Aluminum, Add	3.90	
For 304 Stainless Steel, Add	15.60	
For 316 Stainless Steel, Add	17.88	



	<b>Metals</b>	<b>05</b>
	Metal Fabrications	05 50
	Metal Specialties	05 59
		<b>05</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0028 SF 0.207" Thick Wire, 1-1/2" Spacing, 1.62 LB/SF Woven And Welded Wire Cloth Panels .....	13.45	4.45
For Up To 2, Add	3.88	
For >2 To 6, Add	2.23	
For >15 To 40, Deduct	-0.38	
For >40, Deduct	-1.13	
For Galvanized, Add	3.76	
For Aluminum, Add	4.51	
For 304 Stainless Steel, Add	18.05	
For 316 Stainless Steel, Add	20.68	
05 59 69 00-0029 SF 0.225" Thick Wire, 1-1/2" Spacing, 1.89 LB/SF Woven And Welded Wire Cloth Panels .....	15.34	4.93
For Up To 2, Add	4.38	
For >2 To 6, Add	2.52	
For >15 To 40, Deduct	-0.44	
For >40, Deduct	-1.32	
For Galvanized, Add	4.39	
For Aluminum, Add	5.26	
For 304 Stainless Steel, Add	21.05	
For 316 Stainless Steel, Add	24.12	
<b>05 59 69 00-0030 1-1/4" Square Wire Spacing</b> <small>(05 59 69 00-0002)</small>		
05 59 69 00-0031 SF 0.105" Thick Wire, 1-1/4" Spacing, 0.52 LB/SF Woven And Welded Wire Cloth Panels .....	7.99	2.91
For Up To 2, Add	2.38	
For >2 To 6, Add	1.38	
For >15 To 40, Deduct	-0.21	
For >40, Deduct	-0.62	
For Galvanized, Add	2.05	
For Aluminum, Add	2.46	
For 304 Stainless Steel, Add	9.84	
For 316 Stainless Steel, Add	11.28	
05 59 69 00-0032 SF 0.12" Thick Wire, 1-1/4" Spacing, 0.68 LB/SF Woven And Welded Wire Cloth Panels .....	8.62	3.05
For Up To 2, Add	2.54	
For >2 To 6, Add	1.47	
For >15 To 40, Deduct	-0.23	
For >40, Deduct	-0.68	
For Galvanized, Add	2.27	
For Aluminum, Add	2.72	
For 304 Stainless Steel, Add	10.90	
For 316 Stainless Steel, Add	12.49	
05 59 69 00-0033 SF 0.135" Thick Wire, 1-1/4" Spacing, 0.85 LB/SF Woven And Welded Wire Cloth Panels .....	9.33	3.18
For Up To 2, Add	2.72	
For >2 To 6, Add	1.57	
For >15 To 40, Deduct	-0.25	
For >40, Deduct	-0.76	
For Galvanized, Add	2.54	
For Aluminum, Add	3.05	
For 304 Stainless Steel, Add	12.19	
For 316 Stainless Steel, Add	13.97	
05 59 69 00-0034 SF 0.148" Thick Wire, 1-1/4" Spacing, 1.01 LB/SF Woven And Welded Wire Cloth Panels .....	9.60	3.24
For Up To 2, Add	2.78	
For >2 To 6, Add	1.61	
For >15 To 40, Deduct	-0.26	
For >40, Deduct	-0.79	
For Galvanized, Add	2.64	
For Aluminum, Add	3.17	
For 304 Stainless Steel, Add	12.67	
For 316 Stainless Steel, Add	14.52	
05 59 69 00-0035 SF 0.162" Thick Wire, 1-1/4" Spacing, 1.2 LB/SF Woven And Welded Wire Cloth Panels .....	10.44	3.66
For Up To 2, Add	3.06	
For >2 To 6, Add	1.78	
For >15 To 40, Deduct	-0.28	
For >40, Deduct	-0.83	
For Galvanized, Add	2.78	
For Aluminum, Add	3.34	
For 304 Stainless Steel, Add	13.34	
For 316 Stainless Steel, Add	15.29	
05 59 69 00-0036 SF 0.177" Thick Wire, 1-1/4" Spacing, 1.42 LB/SF Woven And Welded Wire Cloth Panels .....	11.77	4.12
For Up To 2, Add	3.45	
For >2 To 6, Add	2.00	
For >15 To 40, Deduct	-0.31	
For >40, Deduct	-0.94	
For Galvanized, Add	3.14	
For Aluminum, Add	3.77	
For 304 Stainless Steel, Add	15.07	
For 316 Stainless Steel, Add	17.27	
05 59 69 00-0037 SF 0.192" Thick Wire, 1-1/4" Spacing, 1.65 LB/SF Woven And Welded Wire Cloth Panels .....	13.34	4.55
For Up To 2, Add	3.88	
For >2 To 6, Add	2.24	
For >15 To 40, Deduct	-0.36	
For >40, Deduct	-1.09	
For Galvanized, Add	3.65	
For Aluminum, Add	4.37	
For 304 Stainless Steel, Add	17.50	
For 316 Stainless Steel, Add	20.05	

05	<b>05 Metals</b>
	05 50 Metal Fabrications
	05 59 Metal Specialties



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 59 69 00-0038	SF	0.207" Thick Wire, 1-1/4" Spacing, 1.9 LB/SF Woven And Welded Wire Cloth Panels .....	15.02	4.96
		<i>For Up To 2, Add</i>	4.33	
		<i>For &gt;2 To 6, Add</i>	2.50	
		<i>For &gt;15 To 40, Deduct</i>	-0.42	
		<i>For &gt;40, Deduct</i>	-1.26	
		<i>For Galvanized, Add</i>	4.20	
		<i>For Aluminum, Add</i>	5.04	
		<i>For 304 Stainless Steel, Add</i>	20.16	
		<i>For 316 Stainless Steel, Add</i>	23.10	
05 59 69 00-0039	SF	0.225" Thick Wire, 1-1/4" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels .....	17.16	5.52
		<i>For Up To 2, Add</i>	4.90	
		<i>For &gt;2 To 6, Add</i>	2.82	
		<i>For &gt;15 To 40, Deduct</i>	-0.49	
		<i>For &gt;40, Deduct</i>	-1.47	
		<i>For Galvanized, Add</i>	4.91	
		<i>For Aluminum, Add</i>	5.89	
		<i>For 304 Stainless Steel, Add</i>	23.54	
		<i>For 316 Stainless Steel, Add</i>	26.98	
<b>05 59 69 00-0040</b>		<b>1" Square Wire Spacing <small>(05 59 69 00-0002)</small></b>		
05 59 69 00-0041	SF	0.105" Thick Wire, 1" Spacing, 0.64 LB/SF Woven And Welded Wire Cloth Panels.....	9.14	3.41
		<i>For Up To 2, Add</i>	2.74	
		<i>For &gt;2 To 6, Add</i>	1.60	
		<i>For &gt;15 To 40, Deduct</i>	-0.23	
		<i>For &gt;40, Deduct</i>	-0.69	
		<i>For Galvanized, Add</i>	2.30	
		<i>For Aluminum, Add</i>	2.75	
		<i>For 304 Stainless Steel, Add</i>	11.02	
		<i>For 316 Stainless Steel, Add</i>	12.62	
05 59 69 00-0042	SF	0.12" Thick Wire, 1" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels.....	9.77	3.55
		<i>For Up To 2, Add</i>	2.90	
		<i>For &gt;2 To 6, Add</i>	1.69	
		<i>For &gt;15 To 40, Deduct</i>	-0.25	
		<i>For &gt;40, Deduct</i>	-0.76	
		<i>For Galvanized, Add</i>	2.52	
		<i>For Aluminum, Add</i>	3.02	
		<i>For 304 Stainless Steel, Add</i>	12.10	
		<i>For 316 Stainless Steel, Add</i>	13.86	
05 59 69 00-0043	SF	0.135" Thick Wire, 1" Spacing, 1.04 LB/SF Woven And Welded Wire Cloth Panels.....	10.18	3.70
		<i>For Up To 2, Add</i>	3.03	
		<i>For &gt;2 To 6, Add</i>	1.76	
		<i>For &gt;15 To 40, Deduct</i>	-0.26	
		<i>For &gt;40, Deduct</i>	-0.78	
		<i>For Galvanized, Add</i>	2.62	
		<i>For Aluminum, Add</i>	3.14	
		<i>For 304 Stainless Steel, Add</i>	12.55	
		<i>For 316 Stainless Steel, Add</i>	14.38	
05 59 69 00-0044	SF	0.148" Thick Wire, 1" Spacing, 1.23 LB/SF Woven And Welded Wire Cloth Panels.....	10.86	3.75
		<i>For Up To 2, Add</i>	3.17	
		<i>For &gt;2 To 6, Add</i>	1.84	
		<i>For &gt;15 To 40, Deduct</i>	-0.29	
		<i>For &gt;40, Deduct</i>	-0.88	
		<i>For Galvanized, Add</i>	2.93	
		<i>For Aluminum, Add</i>	3.51	
		<i>For 304 Stainless Steel, Add</i>	14.04	
		<i>For 316 Stainless Steel, Add</i>	16.09	
05 59 69 00-0045	SF	0.162" Thick Wire, 1" Spacing, 1.46 LB/SF Woven And Welded Wire Cloth Panels.....	12.09	4.24
		<i>For Up To 2, Add</i>	3.55	
		<i>For &gt;2 To 6, Add</i>	2.06	
		<i>For &gt;15 To 40, Deduct</i>	-0.32	
		<i>For &gt;40, Deduct</i>	-0.97	
		<i>For Galvanized, Add</i>	3.22	
		<i>For Aluminum, Add</i>	3.86	
		<i>For 304 Stainless Steel, Add</i>	15.46	
		<i>For 316 Stainless Steel, Add</i>	17.71	
05 59 69 00-0046	SF	0.177" Thick Wire, 1" Spacing, 1.72 LB/SF Woven And Welded Wire Cloth Panels.....	13.57	4.74
		<i>For Up To 2, Add</i>	3.98	
		<i>For &gt;2 To 6, Add</i>	2.31	
		<i>For &gt;15 To 40, Deduct</i>	-0.36	
		<i>For &gt;40, Deduct</i>	-1.09	
		<i>For Galvanized, Add</i>	3.62	
		<i>For Aluminum, Add</i>	4.34	
		<i>For 304 Stainless Steel, Add</i>	17.38	
		<i>For 316 Stainless Steel, Add</i>	19.91	
05 59 69 00-0047	SF	0.192" Thick Wire, 1" Spacing, 2.01 LB/SF Woven And Welded Wire Cloth Panels.....	15.49	5.26
		<i>For Up To 2, Add</i>	4.50	
		<i>For &gt;2 To 6, Add</i>	2.60	
		<i>For &gt;15 To 40, Deduct</i>	-0.42	
		<i>For &gt;40, Deduct</i>	-1.27	
		<i>For Galvanized, Add</i>	4.23	
		<i>For Aluminum, Add</i>	5.08	
		<i>For 304 Stainless Steel, Add</i>	20.30	
		<i>For 316 Stainless Steel, Add</i>	23.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0048 SF 0.207" Thick Wire, 1" Spacing, 2.31 LB/SF Woven And Welded Wire Cloth Panels .....	17.39	5.76
For Up To 2, Add	5.01	
For >2 To 6, Add	2.89	
For >15 To 40, Deduct	-0.49	
For >40, Deduct	-1.46	
For Galvanized, Add	4.86	
For Aluminum, Add	5.83	
For 304 Stainless Steel, Add	23.33	
For 316 Stainless Steel, Add	26.73	
05 59 69 00-0049 SF 0.225" Thick Wire, 1" Spacing, 2.69 LB/SF Woven And Welded Wire Cloth Panels .....	19.81	6.36
For Up To 2, Add	5.66	
For >2 To 6, Add	3.25	
For >15 To 40, Deduct	-0.57	
For >40, Deduct	-1.70	
For Galvanized, Add	5.66	
For Aluminum, Add	6.79	
For 304 Stainless Steel, Add	27.17	
For 316 Stainless Steel, Add	31.13	
<b>05 59 69 00-0050 3/4" Square Wire Spacing</b> (05 59 69 00-0002)		
05 59 69 00-0051 SF 0.105" Thick Wire, 3/4" Spacing, 0.83 LB/SF Woven And Welded Wire Cloth Panels .....	9.24	3.40
For Up To 2, Add	2.76	
For >2 To 6, Add	1.61	
For >15 To 40, Deduct	-0.24	
For >40, Deduct	-0.71	
For Galvanized, Add	2.35	
For Aluminum, Add	2.82	
For 304 Stainless Steel, Add	11.28	
For 316 Stainless Steel, Add	12.93	
05 59 69 00-0052 SF 0.12" Thick Wire, 3/4" Spacing, 1.07 LB/SF Woven And Welded Wire Cloth Panels .....	10.31	3.82
For Up To 2, Add	3.08	
For >2 To 6, Add	1.79	
For >15 To 40, Deduct	-0.26	
For >40, Deduct	-0.78	
For Galvanized, Add	2.62	
For Aluminum, Add	3.14	
For 304 Stainless Steel, Add	12.55	
For 316 Stainless Steel, Add	14.38	
05 59 69 00-0053 SF 0.135" Thick Wire, 3/4" Spacing, 1.33 LB/SF Woven And Welded Wire Cloth Panels .....	11.44	4.32
For Up To 2, Add	3.44	
For >2 To 6, Add	2.01	
For >15 To 40, Deduct	-0.28	
For >40, Deduct	-0.85	
For Galvanized, Add	2.85	
For Aluminum, Add	3.41	
For 304 Stainless Steel, Add	13.66	
For 316 Stainless Steel, Add	15.65	
05 59 69 00-0054 SF 0.148" Thick Wire, 3/4" Spacing, 1.58 LB/SF Woven And Welded Wire Cloth Panels .....	12.35	4.60
For Up To 2, Add	3.70	
For >2 To 6, Add	2.15	
For >15 To 40, Deduct	-0.31	
For >40, Deduct	-0.93	
For Galvanized, Add	3.11	
For Aluminum, Add	3.73	
For 304 Stainless Steel, Add	14.93	
For 316 Stainless Steel, Add	17.11	
05 59 69 00-0055 SF 0.162" Thick Wire, 3/4" Spacing, 1.87 LB/SF Woven And Welded Wire Cloth Panels .....	14.26	5.17
For Up To 2, Add	4.23	
For >2 To 6, Add	2.46	
For >15 To 40, Deduct	-0.37	
For >40, Deduct	-1.10	
For Galvanized, Add	3.68	
For Aluminum, Add	4.42	
For 304 Stainless Steel, Add	17.66	
For 316 Stainless Steel, Add	20.24	
05 59 69 00-0056 SF 0.177" Thick Wire, 3/4" Spacing, 2.2 LB/SF Woven And Welded Wire Cloth Panels .....	16.37	5.78
For Up To 2, Add	4.82	
For >2 To 6, Add	2.79	
For >15 To 40, Deduct	-0.43	
For >40, Deduct	-1.30	
For Galvanized, Add	4.33	
For Aluminum, Add	5.20	
For 304 Stainless Steel, Add	20.78	
For 316 Stainless Steel, Add	23.82	
05 59 69 00-0057 SF 0.192" Thick Wire, 3/4" Spacing, 2.56 LB/SF Woven And Welded Wire Cloth Panels .....	18.61	6.39
For Up To 2, Add	5.43	
For >2 To 6, Add	3.14	
For >15 To 40, Deduct	-0.50	
For >40, Deduct	-1.51	
For Galvanized, Add	5.04	
For Aluminum, Add	6.05	
For 304 Stainless Steel, Add	24.19	
For 316 Stainless Steel, Add	27.72	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0058 SF 0.207" Thick Wire, 3/4" Spacing, 2.93 LB/SF Woven And Welded Wire Cloth Panels.....	20.80	6.95
For Up To 2, Add	6.01	
For >2 To 6, Add	3.47	
For >15 To 40, Deduct	-0.58	
For >40, Deduct	-1.73	
For Galvanized, Add	5.77	
For Aluminum, Add	6.92	
For 304 Stainless Steel, Add	27.70	
For 316 Stainless Steel, Add	31.74	
05 59 69 00-0059 SF 0.225" Thick Wire, 3/4" Spacing, 3.41 LB/SF Woven And Welded Wire Cloth Panels.....	23.67	7.68
For Up To 2, Add	6.78	
For >2 To 6, Add	3.90	
For >15 To 40, Deduct	-0.67	
For >40, Deduct	-2.01	
For Galvanized, Add	6.72	
For Aluminum, Add	8.06	
For 304 Stainless Steel, Add	32.23	
For 316 Stainless Steel, Add	36.93	
<b>05 59 69 00-0060 1/2" Square Wire Spacing</b> <small>(05 59 69 00-0002)</small>		
05 59 69 00-0061 SF 0.105" Thick Wire, 1/2" Spacing, 1.18 LB/SF Woven And Welded Wire Cloth Panels.....	9.66	3.64
For Up To 2, Add	2.90	
For >2 To 6, Add	1.69	
For >15 To 40, Deduct	-0.24	
For >40, Deduct	-0.72	
For Galvanized, Add	2.41	
For Aluminum, Add	2.89	
For 304 Stainless Steel, Add	11.54	
For 316 Stainless Steel, Add	13.23	
05 59 69 00-0062 SF 0.12" Thick Wire, 1/2" Spacing, 1.51 LB/SF Woven And Welded Wire Cloth Panels.....	11.34	4.43
For Up To 2, Add	3.45	
For >2 To 6, Add	2.02	
For >15 To 40, Deduct	-0.27	
For >40, Deduct	-0.81	
For Galvanized, Add	2.72	
For Aluminum, Add	3.26	
For 304 Stainless Steel, Add	13.03	
For 316 Stainless Steel, Add	14.93	
05 59 69 00-0063 SF 0.135" Thick Wire, 1/2" Spacing, 1.88 LB/SF Woven And Welded Wire Cloth Panels.....	13.69	5.24
For Up To 2, Add	4.14	
For >2 To 6, Add	2.42	
For >15 To 40, Deduct	-0.34	
For >40, Deduct	-1.01	
For Galvanized, Add	3.35	
For Aluminum, Add	4.02	
For 304 Stainless Steel, Add	16.08	
For 316 Stainless Steel, Add	18.43	
05 59 69 00-0064 SF 0.148" Thick Wire, 1/2" Spacing, 2.22 LB/SF Woven And Welded Wire Cloth Panels.....	15.75	5.88
For Up To 2, Add	4.72	
For >2 To 6, Add	2.75	
For >15 To 40, Deduct	-0.40	
For >40, Deduct	-1.19	
For Galvanized, Add	3.96	
For Aluminum, Add	4.75	
For 304 Stainless Steel, Add	18.98	
For 316 Stainless Steel, Add	21.75	
05 59 69 00-0065 SF 0.162" Thick Wire, 1/2" Spacing, 2.61 LB/SF Woven And Welded Wire Cloth Panels.....	18.05	6.56
For Up To 2, Add	5.36	
For >2 To 6, Add	3.12	
For >15 To 40, Deduct	-0.47	
For >40, Deduct	-1.40	
For Galvanized, Add	4.65	
For Aluminum, Add	5.58	
For 304 Stainless Steel, Add	22.32	
For 316 Stainless Steel, Add	25.58	
05 59 69 00-0066 SF 0.177" Thick Wire, 1/2" Spacing, 3.06 LB/SF Woven And Welded Wire Cloth Panels.....	20.66	7.31
For Up To 2, Add	6.08	
For >2 To 6, Add	3.53	
For >15 To 40, Deduct	-0.55	
For >40, Deduct	-1.64	
For Galvanized, Add	5.46	
For Aluminum, Add	6.55	
For 304 Stainless Steel, Add	26.18	
For 316 Stainless Steel, Add	30.00	
05 59 69 00-0067 SF 0.192" Thick Wire, 1/2" Spacing, 3.54 LB/SF Woven And Welded Wire Cloth Panels.....	23.33	8.03
For Up To 2, Add	6.81	
For >2 To 6, Add	3.94	
For >15 To 40, Deduct	-0.63	
For >40, Deduct	-1.89	
For Galvanized, Add	6.31	
For Aluminum, Add	7.57	
For 304 Stainless Steel, Add	30.29	
For 316 Stainless Steel, Add	34.71	





MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
05 59 69 00-0068	SF	0.207" Thick Wire, 1/2" Spacing, 4.04 LB/SF Woven And Welded Wire Cloth Panels .....	26.02	8.72
		<i>For Up To 2, Add</i>	7.53	
		<i>For &gt;2 To 6, Add</i>	4.35	
		<i>For &gt;15 To 40, Deduct</i>	-0.72	
		<i>For &gt;40, Deduct</i>	-2.16	
		<i>For Galvanized, Add</i>	7.20	
		<i>For Aluminum, Add</i>	8.64	
		<i>For 304 Stainless Steel, Add</i>	34.56	
		<i>For 316 Stainless Steel, Add</i>	39.60	
05 59 69 00-0069	SF	0.225" Thick Wire, 1/2" Spacing, 4.68 LB/SF Woven And Welded Wire Cloth Panels .....	27.17	9.58
		<i>For Up To 2, Add</i>	7.99	
		<i>For &gt;2 To 6, Add</i>	4.63	
		<i>For &gt;15 To 40, Deduct</i>	-0.72	
		<i>For &gt;40, Deduct</i>	-2.16	
		<i>For Galvanized, Add</i>	7.20	
		<i>For Aluminum, Add</i>	8.64	
		<i>For 304 Stainless Steel, Add</i>	34.56	
		<i>For 316 Stainless Steel, Add</i>	39.60	
05 59 69 00-0070		<b>Expanded Metal Panels</b> (05 59 69)		
		Note: Excludes frame and fastening to frame. See CSI section 05 12 23 00-0129 for spot welding.		
05 59 69 00-0071		<b>Plain Flattened Expanded Metal Diamond Shape Panels</b> (05 59 69 00-0070)		
		Note: Excludes frame and fastening to frame. See CSI section 05 12 23 00-0129 for spot welding.		
05 59 69 00-0072	SF	1/4" #20-F Plain Expanded Metal Panel, 0.82 LB/SF .....	8.29	3.14
		<i>For Galvanized, Add</i>	2.05	
		<i>For Aluminum, Add</i>	2.46	
		<i>For 304 Stainless Steel, Add</i>	9.84	
		<i>For 316 Stainless Steel, Add</i>	11.28	
05 59 69 00-0073	SF	1/4" #18-F Plain Expanded Metal Panel, 1.08 LB/SF .....	10.39	3.44
		<i>For Galvanized, Add</i>	2.90	
		<i>For Aluminum, Add</i>	3.48	
		<i>For 304 Stainless Steel, Add</i>	13.92	
		<i>For 316 Stainless Steel, Add</i>	15.95	
05 59 69 00-0074	SF	1/2" #20-F Plain Expanded Metal Panel, 0.40 LB/SF .....	5.98	2.43
		<i>For Galvanized, Add</i>	1.38	
		<i>For Aluminum, Add</i>	1.65	
		<i>For 304 Stainless Steel, Add</i>	6.60	
		<i>For 316 Stainless Steel, Add</i>	7.56	
05 59 69 00-0075	SF	1/2" #18-F Plain Expanded Metal Panel, 0.66 LB/SF .....	6.54	2.64
		<i>For Galvanized, Add</i>	1.51	
		<i>For Aluminum, Add</i>	1.81	
		<i>For 304 Stainless Steel, Add</i>	7.25	
		<i>For 316 Stainless Steel, Add</i>	8.31	
05 59 69 00-0076	SF	1/2" #16-F Plain Expanded Metal Panel, 0.82 LB/SF .....	7.41	3.14
		<i>For Galvanized, Add</i>	1.61	
		<i>For Aluminum, Add</i>	1.93	
		<i>For 304 Stainless Steel, Add</i>	7.73	
		<i>For 316 Stainless Steel, Add</i>	8.86	
05 59 69 00-0077	SF	1/2" #13-F Plain Expanded Metal Panel, 1.4 LB/SF .....	9.49	4.05
		<i>For Galvanized, Add</i>	2.05	
		<i>For Aluminum, Add</i>	2.45	
		<i>For 304 Stainless Steel, Add</i>	9.82	
		<i>For 316 Stainless Steel, Add</i>	11.25	
05 59 69 00-0078	SF	3/4" #16-F Plain Expanded Metal Panel, 0.51 LB/SF .....	5.24	2.39
		<i>For Galvanized, Add</i>	1.03	
		<i>For Aluminum, Add</i>	1.24	
		<i>For 304 Stainless Steel, Add</i>	4.94	
		<i>For 316 Stainless Steel, Add</i>	5.67	
05 59 69 00-0079	SF	3/4" #14-F Plain Expanded Metal Panel, 0.63 LB/SF .....	5.86	2.56
		<i>For Galvanized, Add</i>	1.23	
		<i>For Aluminum, Add</i>	1.47	
		<i>For 304 Stainless Steel, Add</i>	5.88	
		<i>For 316 Stainless Steel, Add</i>	6.74	
05 59 69 00-0080	SF	3/4" #13-F Plain Expanded Metal Panel, 0.75 LB/SF .....	6.69	2.87
		<i>For Galvanized, Add</i>	1.43	
		<i>For Aluminum, Add</i>	1.72	
		<i>For 304 Stainless Steel, Add</i>	6.86	
		<i>For 316 Stainless Steel, Add</i>	7.87	
05 59 69 00-0081	SF	3/4" #9-F Plain Expanded Metal Panel, 1.71 LB/SF .....	10.56	4.74
		<i>For Galvanized, Add</i>	2.12	
		<i>For Aluminum, Add</i>	2.54	
		<i>For 304 Stainless Steel, Add</i>	10.15	
		<i>For 316 Stainless Steel, Add</i>	11.63	
05 59 69 00-0082	SF	1" #16-F Plain Expanded Metal Panel, 0.41 LB/SF .....	5.88	2.91
		<i>For Galvanized, Add</i>	1.00	
		<i>For Aluminum, Add</i>	1.19	
		<i>For 304 Stainless Steel, Add</i>	4.78	
		<i>For 316 Stainless Steel, Add</i>	5.47	
05 59 69 00-0083	SF	1-1/2" #16-F Plain Expanded Metal Panel, 0.38 LB/SF .....	5.05	2.29
		<i>For Galvanized, Add</i>	1.00	
		<i>For Aluminum, Add</i>	1.20	
		<i>For 304 Stainless Steel, Add</i>	4.80	
		<i>For 316 Stainless Steel, Add</i>	5.50	

**05 Metals**

05 50 Metal Fabrications

05 59 Metal Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
05 59 69 00-0084	SF		1-1/2" #13-F Plain Expanded Metal Panel, 0.57 LB/SF .....	5.83	2.70
			<i>For Galvanized, Add</i>	1.13	
			<i>For Aluminum, Add</i>	1.35	
			<i>For 304 Stainless Steel, Add</i>	5.40	
			<i>For 316 Stainless Steel, Add</i>	6.19	
05 59 69 00-0085	SF		1-1/2" #9-F Plain Expanded Metal Panel, 1.14 LB/SF .....	9.01	3.64
			<i>For Galvanized, Add</i>	2.08	
			<i>For Aluminum, Add</i>	2.50	
			<i>For 304 Stainless Steel, Add</i>	9.98	
			<i>For 316 Stainless Steel, Add</i>	11.44	

**END OF SECTION 05**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 06 Wood, Plastics, and Composites

### 06 01 Maintenance of Wood, Plastics, and Composites<sup>(06)</sup>

#### 06 01 20 Maintenance of Finish Carpentry<sup>(06 01)</sup>

#### **06 01 20 91 Finish Carpentry Restoration**<sup>(06 01 20)</sup>

#### 06 01 20 91-0001 Wood Trim Repair<sup>(06 01 20 91)</sup>

06 01 20 91-0002 SF	Restoration Of Existing Decorative Woodwork	7.42	
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Note: Includes stripping to bare wood, filling or patching, stain or paint to match existing.

### 06 05 Common Work Results For Wood, Plastics, And Composites

<sup>(06)</sup>

#### 06 05 23 Wood, Plastic, And Composite Fastenings<sup>(06 05)</sup>

Note: For additional fasteners above normal conditions, for replacing existing fasteners, for relocating existing materials or fixtures, or for different fasteners required due to load limits on standard fasteners.

#### 06 05 23 00-0001 Threaded Anchor Bolts<sup>(06 05 23)</sup>

Note: Threaded on two ends with two nuts and flat washers.

06 05 23 00-0002 EA	1/2" Diameter x 4" Long, Threaded Anchor Bolt	11.08	
	<i>For &gt;10 To 50, Deduct</i>	-0.36	
	<i>For &gt;50 To 100, Deduct</i>	-0.82	
	<i>For &gt;100 To 250, Deduct</i>	-1.64	
	<i>For &gt;250 To 500, Deduct</i>	-2.82	
	<i>For &gt;500, Deduct</i>	-4.01	
06 05 23 00-0003 EA	1/2" Diameter x 7-1/2" Long, Threaded Anchor Bolt	14.35	
	<i>For &gt;10 To 50, Deduct</i>	-0.39	
	<i>For &gt;50 To 100, Deduct</i>	-0.94	
	<i>For &gt;100 To 250, Deduct</i>	-1.89	
	<i>For &gt;250 To 500, Deduct</i>	-3.22	
	<i>For &gt;500, Deduct</i>	-4.56	
06 05 23 00-0004 EA	3/4" Diameter x 7-1/2" Long, Threaded Anchor Bolt	15.75	
	<i>For &gt;10 To 50, Deduct</i>	-0.39	
	<i>For &gt;50 To 100, Deduct</i>	-0.98	
	<i>For &gt;100 To 250, Deduct</i>	-1.96	
	<i>For &gt;250 To 500, Deduct</i>	-3.33	
	<i>For &gt;500, Deduct</i>	-4.70	
06 05 23 00-0005 EA	3/4" Diameter x 12" Long, Threaded Anchor Bolt	29.98	
	<i>For &gt;10 To 50, Deduct</i>	-0.53	
	<i>For &gt;50 To 100, Deduct</i>	-1.55	
	<i>For &gt;100 To 250, Deduct</i>	-3.10	
	<i>For &gt;250 To 500, Deduct</i>	-5.18	
	<i>For &gt;500, Deduct</i>	-7.27	

#### 06 05 23 00-0006 Framing Anchors<sup>(06 05 23)</sup>

06 05 23 00-0007 EA	10 Gauge Framing Anchor	6.42	3.05
	<i>For &gt;10 To 50, Deduct</i>	-0.29	
	<i>For &gt;50 To 100, Deduct</i>	-0.60	
	<i>For &gt;100 To 250, Deduct</i>	-1.19	
	<i>For &gt;250 To 500, Deduct</i>	-2.08	
	<i>For &gt;500, Deduct</i>	-2.96	

#### 06 05 23 00-0008 Holddown Anchors<sup>(06 05 23)</sup>

06 05 23 00-0009 EA	8-5/8" High x 2-1/2" Wide x 2-1/4" Deep, 12 Gauge, Hold Downs, (Simpson Strong Tie® HD3B)	40.68	
	<i>For &gt;10 To 50, Deduct</i>	-1.57	
	<i>For &gt;50 To 100, Deduct</i>	-3.38	
	<i>For &gt;100 To 250, Deduct</i>	-6.75	
	<i>For &gt;250 To 500, Deduct</i>	-11.70	
	<i>For &gt;500, Deduct</i>	-16.65	
06 05 23 00-0010 EA	9-3/8" High x 2-1/2" Wide x 2-1/2" Deep, 10 Gauge, Hold Downs, (Simpson Strong Tie® HD5B)	54.39	
	<i>For &gt;10 To 50, Deduct</i>	-1.57	
	<i>For &gt;50 To 100, Deduct</i>	-3.72	
	<i>For &gt;100 To 250, Deduct</i>	-7.44	
	<i>For &gt;250 To 500, Deduct</i>	-12.73	
	<i>For &gt;500, Deduct</i>	-18.02	
06 05 23 00-0011 EA	12-3/8" High x 2-1/2" Wide x 2-1/2" Deep, 10 Gauge, Hold Downs, (Simpson Strong Tie® HD7B)	61.46	
	<i>For &gt;10 To 50, Deduct</i>	-1.72	
	<i>For &gt;50 To 100, Deduct</i>	-4.12	
	<i>For &gt;100 To 250, Deduct</i>	-8.25	
	<i>For &gt;250 To 500, Deduct</i>	-14.09	
	<i>For &gt;500, Deduct</i>	-19.94	
06 05 23 00-0012 EA	14" High x 2-1/2" Wide x 2-1/2" Deep, 7 Gauge, Hold Downs, (Simpson Strong Tie® HD9B)	74.40	
	<i>For &gt;10 To 50, Deduct</i>	-1.93	
	<i>For &gt;50 To 100, Deduct</i>	-4.75	
	<i>For &gt;100 To 250, Deduct</i>	-9.50	
	<i>For &gt;250 To 500, Deduct</i>	-16.18	
	<i>For &gt;500, Deduct</i>	-22.86	

**06 Wood, Plastics, and Composites****06 05 Common Work Results For Wood, Plastics, And Composites****06 05 23 Wood, Plastic, And Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0013 EA 20-5/16" High x 3-1/2" Wide x 4-1/2" Deep, 3 Gauge, Hold Downs, (Simpson Strong Tie® HD12).....	141.94	
For >10 To 50, Deduct	-2.43	
For >50 To 100, Deduct	-7.20	
For >100 To 250, Deduct	-14.40	
For >250 To 500, Deduct	-24.03	
For >500, Deduct	-33.67	
06 05 23 00-0014 EA 24-1/2" High x 3-1/2" Wide x 4-1/2" Deep, 3 Gauge, Hold Downs, (Simpson Strong Tie® HD19).....	162.28	
For >10 To 50, Deduct	-2.54	
For >50 To 100, Deduct	-7.86	
For >100 To 250, Deduct	-15.72	
For >250 To 500, Deduct	-26.12	
For >500, Deduct	-36.51	
<b>06 05 23 00-0015 Joist And Beam Hangers</b> <small>(06 05 23)</small>		
06 05 23 00-0016 EA 18 Gauge Joist Hanger, For 2" x 4" Joist, Also Acceptable For Beam Hangers .....	6.44	2.84
For >10 To 50, Deduct	-0.29	
For >50 To 100, Deduct	-0.60	
For >100 To 250, Deduct	-1.19	
For >250 To 500, Deduct	-2.08	
For >500, Deduct	-2.96	
06 05 23 00-0017 EA 18 Gauge Joist Hanger, For 2" x 6"-2" x 10" Joist, Also Acceptable For Beam Hangers.....	7.32	2.84
For >10 To 50, Deduct	-0.31	
For >50 To 100, Deduct	-0.64	
For >100 To 250, Deduct	-1.29	
For >250 To 500, Deduct	-2.24	
For >500, Deduct	-3.19	
06 05 23 00-0018 EA 16 Gauge Joist Hanger, For 3" x 6"-3" x 9" Joist, Also Acceptable For Beam Hangers.....	9.19	2.84
For >10 To 50, Deduct	-0.32	
For >50 To 100, Deduct	-0.71	
For >100 To 250, Deduct	-1.41	
For >250 To 500, Deduct	-2.43	
For >500, Deduct	-3.46	
06 05 23 00-0019 EA 16 Gauge Joist Hanger, For 3" x 10"-3" x 14" Joist, Also Acceptable For Beam Hangers.....	9.37	2.84
For >10 To 50, Deduct	-0.32	
For >50 To 100, Deduct	-0.71	
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-2.45	
For >500, Deduct	-3.47	
06 05 23 00-0020 EA 16 Gauge Joist Hanger, For 4" x 6"-4" x 8" Joist, Also Acceptable For Beam Hangers.....	9.46	2.94
For >10 To 50, Deduct	-0.33	
For >50 To 100, Deduct	-0.73	
For >100 To 250, Deduct	-1.45	
For >250 To 500, Deduct	-2.51	
For >500, Deduct	-3.56	
06 05 23 00-0021 EA 16 Gauge Joist Hanger, For 4" x 10"-4" x 14" Joist, Also Acceptable For Beam Hangers.....	9.95	2.94
For >10 To 50, Deduct	-0.33	
For >50 To 100, Deduct	-0.74	
For >100 To 250, Deduct	-1.48	
For >250 To 500, Deduct	-2.54	
For >500, Deduct	-3.61	
<b>06 05 23 00-0022 Post Framing</b> <small>(06 05 23)</small>		
06 05 23 00-0023 EA 16 Gauge Post Framing With 4" x 4" Base .....	12.46	3.55
For >10 To 50, Deduct	-0.39	
For >50 To 100, Deduct	-0.90	
For >100 To 250, Deduct	-1.79	
For >250 To 500, Deduct	-3.08	
For >500, Deduct	-4.37	
06 05 23 00-0024 EA 16 Gauge Post Framing With 4" x 4" Cap.....	10.62	3.55
For >10 To 50, Deduct	-0.39	
For >50 To 100, Deduct	-0.85	
For >100 To 250, Deduct	-1.70	
For >250 To 500, Deduct	-2.94	
For >500, Deduct	-4.18	
<b>06 05 23 00-0025 Rafter Anchors</b> <small>(06 05 23)</small>		
06 05 23 00-0026 EA 1-1/2" Wide x 5-1/4" Long, 18 Gauge Rafter Anchor .....	7.32	3.15
For >10 To 50, Deduct	-0.35	
For >50 To 100, Deduct	-0.71	
For >100 To 250, Deduct	-1.41	
For >250 To 500, Deduct	-2.47	
For >500, Deduct	-3.53	
06 05 23 00-0027 EA 1-1/2" Wide x 10-3/4" Long, 18 Gauge Rafter Anchor .....	7.52	3.15
For >10 To 50, Deduct	-0.35	
For >50 To 100, Deduct	-0.71	
For >100 To 250, Deduct	-1.42	
For >250 To 500, Deduct	-2.49	
For >500, Deduct	-3.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0028 EA Galvanized Rigid Rafter Connector, For 2" x 6".....	8.81	3.15
<i>For &gt;10 To 50, Deduct</i>	-0.35	
<i>For &gt;50 To 100, Deduct</i>	-0.74	
<i>For &gt;100 To 250, Deduct</i>	-1.49	
<i>For &gt;250 To 500, Deduct</i>	-2.58	
<i>For &gt;500, Deduct</i>	-3.68	
 06 05 23 00-0029 Bolts And Fasteners <small>(06 05 23)</small>		
06 05 23 00-0030 Carriage Bolts <small>(06 05 23 00-0029)</small>		
<i>Note: Includes drilling of holes in any material. Includes nut and washer.</i>		
06 05 23 00-0031 Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolts <small>(06 05 23 00-0030)</small>		
06 05 23 00-0032 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	13.52	
<i>For &gt;10 To 50, Deduct</i>	-0.66	
<i>For &gt;50 To 100, Deduct</i>	-1.33	
<i>For &gt;100 To 250, Deduct</i>	-2.65	
<i>For &gt;250 To 500, Deduct</i>	-4.64	
<i>For &gt;500, Deduct</i>	-6.62	
06 05 23 00-0033 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	13.68	
<i>For &gt;10 To 50, Deduct</i>	-0.66	
<i>For &gt;50 To 100, Deduct</i>	-1.33	
<i>For &gt;100 To 250, Deduct</i>	-2.66	
<i>For &gt;250 To 500, Deduct</i>	-4.65	
<i>For &gt;500, Deduct</i>	-6.64	
06 05 23 00-0034 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	13.77	
<i>For &gt;10 To 50, Deduct</i>	-0.66	
<i>For &gt;50 To 100, Deduct</i>	-1.33	
<i>For &gt;100 To 250, Deduct</i>	-2.67	
<i>For &gt;250 To 500, Deduct</i>	-4.66	
<i>For &gt;500, Deduct</i>	-6.65	
06 05 23 00-0035 EA 1/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	16.08	
<i>For &gt;10 To 50, Deduct</i>	-0.76	
<i>For &gt;50 To 100, Deduct</i>	-1.54	
<i>For &gt;100 To 250, Deduct</i>	-3.09	
<i>For &gt;250 To 500, Deduct</i>	-5.39	
<i>For &gt;500, Deduct</i>	-7.70	
06 05 23 00-0036 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	14.95	
<i>For &gt;10 To 50, Deduct</i>	-0.71	
<i>For &gt;50 To 100, Deduct</i>	-1.44	
<i>For &gt;100 To 250, Deduct</i>	-2.88	
<i>For &gt;250 To 500, Deduct</i>	-5.03	
<i>For &gt;500, Deduct</i>	-7.18	
06 05 23 00-0037 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	16.21	
<i>For &gt;10 To 50, Deduct</i>	-0.76	
<i>For &gt;50 To 100, Deduct</i>	-1.55	
<i>For &gt;100 To 250, Deduct</i>	-3.09	
<i>For &gt;250 To 500, Deduct</i>	-5.40	
<i>For &gt;500, Deduct</i>	-7.71	
06 05 23 00-0038 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	16.46	
<i>For &gt;10 To 50, Deduct</i>	-0.76	
<i>For &gt;50 To 100, Deduct</i>	-1.55	
<i>For &gt;100 To 250, Deduct</i>	-3.11	
<i>For &gt;250 To 500, Deduct</i>	-5.42	
<i>For &gt;500, Deduct</i>	-7.73	
06 05 23 00-0039 EA 3/8" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	19.67	
<i>For &gt;10 To 50, Deduct</i>	-0.91	
<i>For &gt;50 To 100, Deduct</i>	-1.86	
<i>For &gt;100 To 250, Deduct</i>	-3.72	
<i>For &gt;250 To 500, Deduct</i>	-6.50	
<i>For &gt;500, Deduct</i>	-9.27	
06 05 23 00-0040 EA 3/8" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	21.42	
<i>For &gt;10 To 50, Deduct</i>	-0.96	
<i>For &gt;50 To 100, Deduct</i>	-1.98	
<i>For &gt;100 To 250, Deduct</i>	-3.96	
<i>For &gt;250 To 500, Deduct</i>	-6.91	
<i>For &gt;500, Deduct</i>	-9.85	
06 05 23 00-0041 EA 3/8" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	24.16	
<i>For &gt;10 To 50, Deduct</i>	-1.07	
<i>For &gt;50 To 100, Deduct</i>	-2.20	
<i>For &gt;100 To 250, Deduct</i>	-4.40	
<i>For &gt;250 To 500, Deduct</i>	-7.67	
<i>For &gt;500, Deduct</i>	-10.94	
06 05 23 00-0042 EA 1/2" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	16.73	
<i>For &gt;10 To 50, Deduct</i>	-0.76	
<i>For &gt;50 To 100, Deduct</i>	-1.56	
<i>For &gt;100 To 250, Deduct</i>	-3.12	
<i>For &gt;250 To 500, Deduct</i>	-5.44	
<i>For &gt;500, Deduct</i>	-7.76	
06 05 23 00-0043 EA 1/2" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt.....	18.37	
<i>For &gt;10 To 50, Deduct</i>	-0.81	
<i>For &gt;50 To 100, Deduct</i>	-1.68	
<i>For &gt;100 To 250, Deduct</i>	-3.35	
<i>For &gt;250 To 500, Deduct</i>	-5.84	
<i>For &gt;500, Deduct</i>	-8.33	

**06 Wood, Plastics, and Composites****06 05 Common Work Results For Wood, Plastics, And Composites****06 05 23 Wood, Plastic, And Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0044 EA 1/2" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt .....	19.58	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-1.78	
For >100 To 250, Deduct	-3.57	
For >250 To 500, Deduct	-6.21	
For >500, Deduct	-8.85	
06 05 23 00-0045 EA 1/2" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt .....	21.96	
For >10 To 50, Deduct	-0.96	
For >50 To 100, Deduct	-2.00	
For >100 To 250, Deduct	-3.99	
For >250 To 500, Deduct	-6.95	
For >500, Deduct	-9.91	
06 05 23 00-0046 EA 1/2" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt .....	25.83	
For >10 To 50, Deduct	-1.12	
For >50 To 100, Deduct	-2.32	
For >100 To 250, Deduct	-4.64	
For >250 To 500, Deduct	-8.07	
For >500, Deduct	-11.51	
06 05 23 00-0047 EA 1/2" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt .....	29.00	
For >10 To 50, Deduct	-1.22	
For >50 To 100, Deduct	-2.55	
For >100 To 250, Deduct	-5.10	
For >250 To 500, Deduct	-8.87	
For >500, Deduct	-12.64	
06 05 23 00-0048 EA 3/4" Diameter x 2" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt .....	23.06	
For >10 To 50, Deduct	-0.91	
For >50 To 100, Deduct	-1.95	
For >100 To 250, Deduct	-3.89	
For >250 To 500, Deduct	-6.75	
For >500, Deduct	-9.61	
06 05 23 00-0049 EA 3/4" Diameter x 4" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt .....	25.06	
For >10 To 50, Deduct	-0.96	
For >50 To 100, Deduct	-2.07	
For >100 To 250, Deduct	-4.15	
For >250 To 500, Deduct	-7.18	
For >500, Deduct	-10.22	
06 05 23 00-0050 EA 3/4" Diameter x 6" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt .....	30.08	
For >10 To 50, Deduct	-1.12	
For >50 To 100, Deduct	-2.43	
For >100 To 250, Deduct	-4.85	
For >250 To 500, Deduct	-8.39	
For >500, Deduct	-11.93	
06 05 23 00-0051 EA 3/4" Diameter x 8" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt .....	33.96	
For >10 To 50, Deduct	-1.17	
For >50 To 100, Deduct	-2.60	
For >100 To 250, Deduct	-5.20	
For >250 To 500, Deduct	-8.96	
For >500, Deduct	-12.73	
06 05 23 00-0052 EA 3/4" Diameter x 10" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt .....	36.87	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-2.82	
For >100 To 250, Deduct	-5.65	
For >250 To 500, Deduct	-9.74	
For >500, Deduct	-13.83	
06 05 23 00-0053 EA 3/4" Diameter x 12" Length, Zinc Plated Steel, Low Carbon/Grade 2, Carriage Bolt .....	37.56	
For >10 To 50, Deduct	-1.32	
For >50 To 100, Deduct	-2.92	
For >100 To 250, Deduct	-5.83	
For >250 To 500, Deduct	-10.07	
For >500, Deduct	-14.30	
<b>06 05 23 00-0054 Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolts</b> (06 05 23 00-0030)		
06 05 23 00-0055 EA 1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	13.79	
For >10 To 50, Deduct	-0.66	
For >50 To 100, Deduct	-1.33	
For >100 To 250, Deduct	-2.67	
For >250 To 500, Deduct	-4.66	
For >500, Deduct	-6.65	
06 05 23 00-0056 EA 1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	14.07	
For >10 To 50, Deduct	-0.66	
For >50 To 100, Deduct	-1.34	
For >100 To 250, Deduct	-2.68	
For >250 To 500, Deduct	-4.68	
For >500, Deduct	-6.68	
06 05 23 00-0057 EA 1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	14.39	
For >10 To 50, Deduct	-0.66	
For >50 To 100, Deduct	-1.35	
For >100 To 250, Deduct	-2.70	
For >250 To 500, Deduct	-4.70	
For >500, Deduct	-6.71	



<b>Wood, Plastics, and Composites</b> <b>06</b>	<b>06</b>
<b>Common Work Results For Wood, Plastics, And Composites</b> <b>06 05</b>	
Wood, Plastic, And Composite Fastenings <b>06 05 23</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0058 EA 1/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	17.13	
<i>For &gt;10 To 50, Deduct</i>	-0.76	
<i>For &gt;50 To 100, Deduct</i>	-1.57	
<i>For &gt;100 To 250, Deduct</i>	-3.14	
<i>For &gt;250 To 500, Deduct</i>	-5.47	
<i>For &gt;500, Deduct</i>	-7.80	
06 05 23 00-0059 EA 3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	15.33	
<i>For &gt;10 To 50, Deduct</i>	-0.71	
<i>For &gt;50 To 100, Deduct</i>	-1.45	
<i>For &gt;100 To 250, Deduct</i>	-2.90	
<i>For &gt;250 To 500, Deduct</i>	-5.05	
<i>For &gt;500, Deduct</i>	-7.21	
06 05 23 00-0060 EA 3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	16.81	
<i>For &gt;10 To 50, Deduct</i>	-0.76	
<i>For &gt;50 To 100, Deduct</i>	-1.56	
<i>For &gt;100 To 250, Deduct</i>	-3.12	
<i>For &gt;250 To 500, Deduct</i>	-5.45	
<i>For &gt;500, Deduct</i>	-7.77	
06 05 23 00-0061 EA 3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	17.15	
<i>For &gt;10 To 50, Deduct</i>	-0.76	
<i>For &gt;50 To 100, Deduct</i>	-1.57	
<i>For &gt;100 To 250, Deduct</i>	-3.14	
<i>For &gt;250 To 500, Deduct</i>	-5.47	
<i>For &gt;500, Deduct</i>	-7.80	
06 05 23 00-0062 EA 3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	20.73	
<i>For &gt;10 To 50, Deduct</i>	-0.91	
<i>For &gt;50 To 100, Deduct</i>	-1.89	
<i>For &gt;100 To 250, Deduct</i>	-3.78	
<i>For &gt;250 To 500, Deduct</i>	-6.58	
<i>For &gt;500, Deduct</i>	-9.38	
06 05 23 00-0063 EA 3/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	22.60	
<i>For &gt;10 To 50, Deduct</i>	-0.96	
<i>For &gt;50 To 100, Deduct</i>	-2.01	
<i>For &gt;100 To 250, Deduct</i>	-4.02	
<i>For &gt;250 To 500, Deduct</i>	-7.00	
<i>For &gt;500, Deduct</i>	-9.97	
06 05 23 00-0064 EA 3/8" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	25.26	
<i>For &gt;10 To 50, Deduct</i>	-1.07	
<i>For &gt;50 To 100, Deduct</i>	-2.23	
<i>For &gt;100 To 250, Deduct</i>	-4.46	
<i>For &gt;250 To 500, Deduct</i>	-7.75	
<i>For &gt;500, Deduct</i>	-11.05	
06 05 23 00-0065 EA 1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	17.61	
<i>For &gt;10 To 50, Deduct</i>	-0.76	
<i>For &gt;50 To 100, Deduct</i>	-1.58	
<i>For &gt;100 To 250, Deduct</i>	-3.16	
<i>For &gt;250 To 500, Deduct</i>	-5.51	
<i>For &gt;500, Deduct</i>	-7.85	
06 05 23 00-0066 EA 1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	19.06	
<i>For &gt;10 To 50, Deduct</i>	-0.81	
<i>For &gt;50 To 100, Deduct</i>	-1.69	
<i>For &gt;100 To 250, Deduct</i>	-3.39	
<i>For &gt;250 To 500, Deduct</i>	-5.89	
<i>For &gt;500, Deduct</i>	-8.40	
06 05 23 00-0067 EA 1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	20.40	
<i>For &gt;10 To 50, Deduct</i>	-0.86	
<i>For &gt;50 To 100, Deduct</i>	-1.80	
<i>For &gt;100 To 250, Deduct</i>	-3.61	
<i>For &gt;250 To 500, Deduct</i>	-6.27	
<i>For &gt;500, Deduct</i>	-8.94	
06 05 23 00-0068 EA 1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	23.15	
<i>For &gt;10 To 50, Deduct</i>	-0.96	
<i>For &gt;50 To 100, Deduct</i>	-2.02	
<i>For &gt;100 To 250, Deduct</i>	-4.05	
<i>For &gt;250 To 500, Deduct</i>	-7.04	
<i>For &gt;500, Deduct</i>	-10.03	
06 05 23 00-0069 EA 1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	27.00	
<i>For &gt;10 To 50, Deduct</i>	-1.12	
<i>For &gt;50 To 100, Deduct</i>	-2.35	
<i>For &gt;100 To 250, Deduct</i>	-4.70	
<i>For &gt;250 To 500, Deduct</i>	-8.16	
<i>For &gt;500, Deduct</i>	-11.62	
06 05 23 00-0070 EA 1/2" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	29.90	
<i>For &gt;10 To 50, Deduct</i>	-1.22	
<i>For &gt;50 To 100, Deduct</i>	-2.57	
<i>For &gt;100 To 250, Deduct</i>	-5.15	
<i>For &gt;250 To 500, Deduct</i>	-8.94	
<i>For &gt;500, Deduct</i>	-12.73	
06 05 23 00-0071 EA 3/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt .....	25.72	
<i>For &gt;10 To 50, Deduct</i>	-0.91	
<i>For &gt;50 To 100, Deduct</i>	-2.01	
<i>For &gt;100 To 250, Deduct</i>	-4.03	
<i>For &gt;250 To 500, Deduct</i>	-6.95	
<i>For &gt;500, Deduct</i>	-9.88	

**06 Wood, Plastics, and Composites**  
**06 05 Common Work Results For Wood, Plastics, And Composites**  
**06 05 23 Wood, Plastic, And Composite Fastenings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0072	EA		3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	26.91	
			<i>For &gt;10 To 50, Deduct</i>	-0.96	
			<i>For &gt;50 To 100, Deduct</i>	-2.12	
			<i>For &gt;100 To 250, Deduct</i>	-4.24	
			<i>For &gt;250 To 500, Deduct</i>	-7.32	
			<i>For &gt;500, Deduct</i>	-10.40	
06 05 23 00-0073	EA		3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	31.39	
			<i>For &gt;10 To 50, Deduct</i>	-1.12	
			<i>For &gt;50 To 100, Deduct</i>	-2.46	
			<i>For &gt;100 To 250, Deduct</i>	-4.92	
			<i>For &gt;250 To 500, Deduct</i>	-8.49	
			<i>For &gt;500, Deduct</i>	-12.06	
06 05 23 00-0074	EA		3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	33.86	
			<i>For &gt;10 To 50, Deduct</i>	-1.17	
			<i>For &gt;50 To 100, Deduct</i>	-2.60	
			<i>For &gt;100 To 250, Deduct</i>	-5.19	
			<i>For &gt;250 To 500, Deduct</i>	-8.96	
			<i>For &gt;500, Deduct</i>	-12.72	
06 05 23 00-0075	EA		3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	38.58	
			<i>For &gt;10 To 50, Deduct</i>	-1.27	
			<i>For &gt;50 To 100, Deduct</i>	-2.87	
			<i>For &gt;100 To 250, Deduct</i>	-5.73	
			<i>For &gt;250 To 500, Deduct</i>	-9.86	
			<i>For &gt;500, Deduct</i>	-14.00	
06 05 23 00-0076	EA		3/4" Diameter x 12" Length, Hot Dipped Galvanized Steel, Low Carbon/Grade 2, Carriage Bolt	41.13	
			<i>For &gt;10 To 50, Deduct</i>	-1.32	
			<i>For &gt;50 To 100, Deduct</i>	-3.01	
			<i>For &gt;100 To 250, Deduct</i>	-6.01	
			<i>For &gt;250 To 500, Deduct</i>	-10.34	
			<i>For &gt;500, Deduct</i>	-14.66	
<b>06 05 23 00-0077</b>			<b>304/18-8 Stainless Steel, Carriage Bolts</b> <small>(06 05 23 00-0030)</small>		
06 05 23 00-0078	EA		1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt	14.05	
			<i>For &gt;10 To 50, Deduct</i>	-0.66	
			<i>For &gt;50 To 100, Deduct</i>	-1.34	
			<i>For &gt;100 To 250, Deduct</i>	-2.68	
			<i>For &gt;250 To 500, Deduct</i>	-4.68	
			<i>For &gt;500, Deduct</i>	-6.68	
06 05 23 00-0079	EA		1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	15.01	
			<i>For &gt;10 To 50, Deduct</i>	-0.66	
			<i>For &gt;50 To 100, Deduct</i>	-1.36	
			<i>For &gt;100 To 250, Deduct</i>	-2.73	
			<i>For &gt;250 To 500, Deduct</i>	-4.75	
			<i>For &gt;500, Deduct</i>	-6.77	
06 05 23 00-0080	EA		1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	15.64	
			<i>For &gt;10 To 50, Deduct</i>	-0.66	
			<i>For &gt;50 To 100, Deduct</i>	-1.38	
			<i>For &gt;100 To 250, Deduct</i>	-2.76	
			<i>For &gt;250 To 500, Deduct</i>	-4.80	
			<i>For &gt;500, Deduct</i>	-6.84	
06 05 23 00-0081	EA		1/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	24.42	
			<i>For &gt;10 To 50, Deduct</i>	-0.76	
			<i>For &gt;50 To 100, Deduct</i>	-1.75	
			<i>For &gt;100 To 250, Deduct</i>	-3.50	
			<i>For &gt;250 To 500, Deduct</i>	-6.02	
			<i>For &gt;500, Deduct</i>	-8.53	
06 05 23 00-0082	EA		3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt	15.96	
			<i>For &gt;10 To 50, Deduct</i>	-0.71	
			<i>For &gt;50 To 100, Deduct</i>	-1.46	
			<i>For &gt;100 To 250, Deduct</i>	-2.93	
			<i>For &gt;250 To 500, Deduct</i>	-5.10	
			<i>For &gt;500, Deduct</i>	-7.28	
06 05 23 00-0083	EA		3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt	18.37	
			<i>For &gt;10 To 50, Deduct</i>	-0.76	
			<i>For &gt;50 To 100, Deduct</i>	-1.60	
			<i>For &gt;100 To 250, Deduct</i>	-3.20	
			<i>For &gt;250 To 500, Deduct</i>	-5.56	
			<i>For &gt;500, Deduct</i>	-7.93	
06 05 23 00-0084	EA		3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt	18.67	
			<i>For &gt;10 To 50, Deduct</i>	-0.76	
			<i>For &gt;50 To 100, Deduct</i>	-1.61	
			<i>For &gt;100 To 250, Deduct</i>	-3.22	
			<i>For &gt;250 To 500, Deduct</i>	-5.59	
			<i>For &gt;500, Deduct</i>	-7.96	
06 05 23 00-0085	EA		3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt	31.70	
			<i>For &gt;10 To 50, Deduct</i>	-0.91	
			<i>For &gt;50 To 100, Deduct</i>	-2.16	
			<i>For &gt;100 To 250, Deduct</i>	-4.32	
			<i>For &gt;250 To 500, Deduct</i>	-7.40	
			<i>For &gt;500, Deduct</i>	-10.47	





<b>Wood, Plastics, and Composites</b>	<b>06</b>	06
<b>Common Work Results For Wood, Plastics, And Composites</b>		
<b>Wood, Plastic, And Composite Fastenings</b>		

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0086 EA 3/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt .....	37.70	
For >10 To 50, Deduct	-0.96	
For >50 To 100, Deduct	-2.39	
For >100 To 250, Deduct	-4.78	
For >250 To 500, Deduct	-8.13	
For >500, Deduct	-11.48	
06 05 23 00-0087 EA 3/8" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt .....	42.14	
For >10 To 50, Deduct	-1.07	
For >50 To 100, Deduct	-2.65	
For >100 To 250, Deduct	-5.30	
For >250 To 500, Deduct	-9.02	
For >500, Deduct	-12.73	
06 05 23 00-0088 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Carriage Bolt .....	19.49	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.63	
For >100 To 250, Deduct	-3.26	
For >250 To 500, Deduct	-5.65	
For >500, Deduct	-8.04	
06 05 23 00-0089 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt .....	21.83	
For >10 To 50, Deduct	-0.81	
For >50 To 100, Deduct	-1.76	
For >100 To 250, Deduct	-3.53	
For >250 To 500, Deduct	-6.10	
For >500, Deduct	-8.68	
06 05 23 00-0090 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt .....	25.75	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-1.94	
For >100 To 250, Deduct	-3.87	
For >250 To 500, Deduct	-6.67	
For >500, Deduct	-9.47	
06 05 23 00-0091 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt .....	38.58	
For >10 To 50, Deduct	-0.96	
For >50 To 100, Deduct	-2.41	
For >100 To 250, Deduct	-4.82	
For >250 To 500, Deduct	-8.20	
For >500, Deduct	-11.57	
06 05 23 00-0092 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt .....	43.72	
For >10 To 50, Deduct	-1.12	
For >50 To 100, Deduct	-2.77	
For >100 To 250, Deduct	-5.53	
For >250 To 500, Deduct	-9.41	
For >500, Deduct	-13.30	
06 05 23 00-0093 EA 1/2" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt .....	65.54	
For >10 To 50, Deduct	-1.22	
For >50 To 100, Deduct	-3.46	
For >100 To 250, Deduct	-6.93	
For >250 To 500, Deduct	-11.61	
For >500, Deduct	-16.29	
06 05 23 00-0094 EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Carriage Bolt .....	51.02	
For >10 To 50, Deduct	-0.96	
For >50 To 100, Deduct	-2.72	
For >100 To 250, Deduct	-5.44	
For >250 To 500, Deduct	-9.13	
For >500, Deduct	-12.81	
06 05 23 00-0095 EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Carriage Bolt .....	70.78	
For >10 To 50, Deduct	-1.12	
For >50 To 100, Deduct	-3.44	
For >100 To 250, Deduct	-6.89	
For >250 To 500, Deduct	-11.44	
For >500, Deduct	-16.00	
06 05 23 00-0096 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Carriage Bolt .....	78.03	
For >10 To 50, Deduct	-1.17	
For >50 To 100, Deduct	-3.70	
For >100 To 250, Deduct	-7.40	
For >250 To 500, Deduct	-12.27	
For >500, Deduct	-17.14	
06 05 23 00-0097 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Carriage Bolt .....	112.53	
For >10 To 50, Deduct	-1.27	
For >50 To 100, Deduct	-4.71	
For >100 To 250, Deduct	-9.43	
For >250 To 500, Deduct	-15.41	
For >500, Deduct	-21.39	
06 05 23 00-0098 EA 3/4" Diameter x 12" Length, 304/18-8 Stainless Steel, Carriage Bolt .....	118.29	
For >10 To 50, Deduct	-1.32	
For >50 To 100, Deduct	-4.94	
For >100 To 250, Deduct	-9.87	
For >250 To 500, Deduct	-16.12	
For >500, Deduct	-22.38	

06 05 23 00-0099 316 Stainless Steel, Carriage Bolts (06 05 23 00-0030)

**06 Wood, Plastics, and Composites****06 05 Common Work Results For Wood, Plastics, And Composites****06 05 23 Wood, Plastic, And Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0100 EA 1/4" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt.....	18.48	
For >10 To 50, Deduct	-0.66	
For >50 To 100, Deduct	-1.45	
For >100 To 250, Deduct	-2.90	
For >250 To 500, Deduct	-5.01	
For >500, Deduct	-7.12	
06 05 23 00-0101 EA 1/4" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt.....	20.16	
For >10 To 50, Deduct	-0.66	
For >50 To 100, Deduct	-1.49	
For >100 To 250, Deduct	-2.99	
For >250 To 500, Deduct	-5.14	
For >500, Deduct	-7.29	
06 05 23 00-0102 EA 3/8" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt.....	21.75	
For >10 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.61	
For >100 To 250, Deduct	-3.22	
For >250 To 500, Deduct	-5.54	
For >500, Deduct	-7.86	
06 05 23 00-0103 EA 3/8" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt.....	25.10	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.77	
For >100 To 250, Deduct	-3.54	
For >250 To 500, Deduct	-6.07	
For >500, Deduct	-8.60	
06 05 23 00-0104 EA 1/2" Diameter x 2" Length, 316 Stainless Steel, Carriage Bolt.....	32.58	
For >10 To 50, Deduct	-0.76	
For >50 To 100, Deduct	-1.96	
For >100 To 250, Deduct	-3.91	
For >250 To 500, Deduct	-6.63	
For >500, Deduct	-9.35	
06 05 23 00-0105 EA 1/2" Diameter x 4" Length, 316 Stainless Steel, Carriage Bolt.....	35.40	
For >10 To 50, Deduct	-0.81	
For >50 To 100, Deduct	-2.10	
For >100 To 250, Deduct	-4.20	
For >250 To 500, Deduct	-7.12	
For >500, Deduct	-10.03	
06 05 23 00-0106 EA 1/2" Diameter x 6" Length, 316 Stainless Steel, Carriage Bolt.....	38.08	
For >10 To 50, Deduct	-0.86	
For >50 To 100, Deduct	-2.25	
For >100 To 250, Deduct	-4.49	
For >250 To 500, Deduct	-7.60	
For >500, Deduct	-10.70	
<b>06 05 23 00-0107 Hex Lag Bolts</b> (06 05 23 00-0029)		
Note: Includes drilling of holes in any material.		
<b>06 05 23 00-0108 Zinc Plated Steel, Hex Lag Bolts</b> (06 05 23 00-0107)		
06 05 23 00-0109 EA 1/4" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt.....	12.89	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.27	
For >100 To 250, Deduct	-2.55	
For >250 To 500, Deduct	-4.45	
For >500, Deduct	-6.36	
06 05 23 00-0110 EA 1/4" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt.....	13.02	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.28	
For >100 To 250, Deduct	-2.55	
For >250 To 500, Deduct	-4.46	
For >500, Deduct	-6.37	
06 05 23 00-0111 EA 1/4" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt.....	13.29	
For >10 To 50, Deduct	-0.63	
For >50 To 100, Deduct	-1.28	
For >100 To 250, Deduct	-2.57	
For >250 To 500, Deduct	-4.48	
For >500, Deduct	-6.40	
06 05 23 00-0112 EA 3/8" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt.....	14.22	
For >10 To 50, Deduct	-0.69	
For >50 To 100, Deduct	-1.39	
For >100 To 250, Deduct	-2.78	
For >250 To 500, Deduct	-4.87	
For >500, Deduct	-6.95	
06 05 23 00-0113 EA 3/8" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt.....	15.45	
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.50	
For >100 To 250, Deduct	-2.99	
For >250 To 500, Deduct	-5.23	
For >500, Deduct	-7.47	
06 05 23 00-0114 EA 3/8" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt.....	15.75	
For >10 To 50, Deduct	-0.74	
For >50 To 100, Deduct	-1.50	
For >100 To 250, Deduct	-3.01	
For >250 To 500, Deduct	-5.25	
For >500, Deduct	-7.50	



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0115	EA	3/8" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt.....	19.32	
		<i>For &gt;10 To 50, Deduct</i>	-0.89	
		<i>For &gt;50 To 100, Deduct</i>	-1.82	
		<i>For &gt;100 To 250, Deduct</i>	-3.63	
		<i>For &gt;250 To 500, Deduct</i>	-6.34	
		<i>For &gt;500, Deduct</i>	-9.04	
06 05 23 00-0116	EA	3/8" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt.....	20.47	
		<i>For &gt;10 To 50, Deduct</i>	-0.94	
		<i>For &gt;50 To 100, Deduct</i>	-1.92	
		<i>For &gt;100 To 250, Deduct</i>	-3.84	
		<i>For &gt;250 To 500, Deduct</i>	-6.69	
		<i>For &gt;500, Deduct</i>	-9.55	
06 05 23 00-0117	EA	1/2" Diameter x 2" Length, Zinc Plated Steel, Hex Lag Bolt.....	15.75	
		<i>For &gt;10 To 50, Deduct</i>	-0.75	
		<i>For &gt;50 To 100, Deduct</i>	-1.51	
		<i>For &gt;100 To 250, Deduct</i>	-3.02	
		<i>For &gt;250 To 500, Deduct</i>	-5.28	
		<i>For &gt;500, Deduct</i>	-7.54	
06 05 23 00-0118	EA	1/2" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt.....	17.18	
		<i>For &gt;10 To 50, Deduct</i>	-0.80	
		<i>For &gt;50 To 100, Deduct</i>	-1.62	
		<i>For &gt;100 To 250, Deduct</i>	-3.25	
		<i>For &gt;250 To 500, Deduct</i>	-5.66	
		<i>For &gt;500, Deduct</i>	-8.08	
06 05 23 00-0119	EA	1/2" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt.....	18.71	
		<i>For &gt;10 To 50, Deduct</i>	-0.85	
		<i>For &gt;50 To 100, Deduct</i>	-1.74	
		<i>For &gt;100 To 250, Deduct</i>	-3.47	
		<i>For &gt;250 To 500, Deduct</i>	-6.05	
		<i>For &gt;500, Deduct</i>	-8.63	
06 05 23 00-0120	EA	1/2" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt.....	21.33	
		<i>For &gt;10 To 50, Deduct</i>	-0.94	
		<i>For &gt;50 To 100, Deduct</i>	-1.95	
		<i>For &gt;100 To 250, Deduct</i>	-3.90	
		<i>For &gt;250 To 500, Deduct</i>	-6.79	
		<i>For &gt;500, Deduct</i>	-9.69	
06 05 23 00-0121	EA	1/2" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt.....	25.16	
		<i>For &gt;10 To 50, Deduct</i>	-1.09	
		<i>For &gt;50 To 100, Deduct</i>	-2.27	
		<i>For &gt;100 To 250, Deduct</i>	-4.54	
		<i>For &gt;250 To 500, Deduct</i>	-7.90	
		<i>For &gt;500, Deduct</i>	-11.27	
06 05 23 00-0122	EA	1/2" Diameter x 12" Length, Zinc Plated Steel, Hex Lag Bolt.....	27.46	
		<i>For &gt;10 To 50, Deduct</i>	-1.19	
		<i>For &gt;50 To 100, Deduct</i>	-2.48	
		<i>For &gt;100 To 250, Deduct</i>	-4.95	
		<i>For &gt;250 To 500, Deduct</i>	-8.62	
		<i>For &gt;500, Deduct</i>	-12.29	
06 05 23 00-0123	EA	3/4" Diameter x 4" Length, Zinc Plated Steel, Hex Lag Bolt.....	23.11	
		<i>For &gt;10 To 50, Deduct</i>	-0.94	
		<i>For &gt;50 To 100, Deduct</i>	-1.99	
		<i>For &gt;100 To 250, Deduct</i>	-3.99	
		<i>For &gt;250 To 500, Deduct</i>	-6.93	
		<i>For &gt;500, Deduct</i>	-9.87	
06 05 23 00-0124	EA	3/4" Diameter x 6" Length, Zinc Plated Steel, Hex Lag Bolt.....	27.63	
		<i>For &gt;10 To 50, Deduct</i>	-1.09	
		<i>For &gt;50 To 100, Deduct</i>	-2.33	
		<i>For &gt;100 To 250, Deduct</i>	-4.66	
		<i>For &gt;250 To 500, Deduct</i>	-8.09	
		<i>For &gt;500, Deduct</i>	-11.52	
06 05 23 00-0125	EA	3/4" Diameter x 8" Length, Zinc Plated Steel, Hex Lag Bolt.....	30.64	
		<i>For &gt;10 To 50, Deduct</i>	-1.14	
		<i>For &gt;50 To 100, Deduct</i>	-2.48	
		<i>For &gt;100 To 250, Deduct</i>	-4.96	
		<i>For &gt;250 To 500, Deduct</i>	-8.59	
		<i>For &gt;500, Deduct</i>	-12.21	
06 05 23 00-0126	EA	3/4" Diameter x 10" Length, Zinc Plated Steel, Hex Lag Bolt.....	34.48	
		<i>For &gt;10 To 50, Deduct</i>	-1.24	
		<i>For &gt;50 To 100, Deduct</i>	-2.73	
		<i>For &gt;100 To 250, Deduct</i>	-5.45	
		<i>For &gt;250 To 500, Deduct</i>	-9.42	
		<i>For &gt;500, Deduct</i>	-13.39	
06 05 23 00-0127	EA	3/4" Diameter x 12" Length, Zinc Plated Steel, Hex Lag Bolt.....	38.74	
		<i>For &gt;10 To 50, Deduct</i>	-1.29	
		<i>For &gt;50 To 100, Deduct</i>	-2.91	
		<i>For &gt;100 To 250, Deduct</i>	-5.82	
		<i>For &gt;250 To 500, Deduct</i>	-10.02	
		<i>For &gt;500, Deduct</i>	-14.22	

06 05 23 00-0128 Hot Dipped Galvanized Steel, Hex Lag Bolts (06 05 23 00-0107)

**06 Wood, Plastics, and Composites**

**06 05 Common Work Results For Wood, Plastics, And Composites**

**06 05 23 Wood, Plastic, And Composite Fastenings**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0129	EA		1/4" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	12.95	
			<i>For &gt;10 To 50, Deduct</i>	-0.63	
			<i>For &gt;50 To 100, Deduct</i>	-1.27	
			<i>For &gt;100 To 250, Deduct</i>	-2.55	
			<i>For &gt;250 To 500, Deduct</i>	-4.46	
			<i>For &gt;500, Deduct</i>	-6.37	
06 05 23 00-0130	EA		1/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	13.15	
			<i>For &gt;10 To 50, Deduct</i>	-0.63	
			<i>For &gt;50 To 100, Deduct</i>	-1.28	
			<i>For &gt;100 To 250, Deduct</i>	-2.56	
			<i>For &gt;250 To 500, Deduct</i>	-4.47	
			<i>For &gt;500, Deduct</i>	-6.39	
06 05 23 00-0131	EA		1/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	13.36	
			<i>For &gt;10 To 50, Deduct</i>	-0.63	
			<i>For &gt;50 To 100, Deduct</i>	-1.29	
			<i>For &gt;100 To 250, Deduct</i>	-2.57	
			<i>For &gt;250 To 500, Deduct</i>	-4.49	
			<i>For &gt;500, Deduct</i>	-6.41	
06 05 23 00-0132	EA		3/8" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	14.33	
			<i>For &gt;10 To 50, Deduct</i>	-0.69	
			<i>For &gt;50 To 100, Deduct</i>	-1.39	
			<i>For &gt;100 To 250, Deduct</i>	-2.79	
			<i>For &gt;250 To 500, Deduct</i>	-4.88	
			<i>For &gt;500, Deduct</i>	-6.96	
06 05 23 00-0133	EA		3/8" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	15.63	
			<i>For &gt;10 To 50, Deduct</i>	-0.74	
			<i>For &gt;50 To 100, Deduct</i>	-1.50	
			<i>For &gt;100 To 250, Deduct</i>	-3.00	
			<i>For &gt;250 To 500, Deduct</i>	-5.24	
			<i>For &gt;500, Deduct</i>	-7.48	
06 05 23 00-0134	EA		3/8" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	15.96	
			<i>For &gt;10 To 50, Deduct</i>	-0.74	
			<i>For &gt;50 To 100, Deduct</i>	-1.51	
			<i>For &gt;100 To 250, Deduct</i>	-3.02	
			<i>For &gt;250 To 500, Deduct</i>	-5.27	
			<i>For &gt;500, Deduct</i>	-7.52	
06 05 23 00-0135	EA		3/8" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	19.71	
			<i>For &gt;10 To 50, Deduct</i>	-0.89	
			<i>For &gt;50 To 100, Deduct</i>	-1.83	
			<i>For &gt;100 To 250, Deduct</i>	-3.65	
			<i>For &gt;250 To 500, Deduct</i>	-6.37	
			<i>For &gt;500, Deduct</i>	-9.08	
06 05 23 00-0136	EA		3/8" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	21.13	
			<i>For &gt;10 To 50, Deduct</i>	-0.94	
			<i>For &gt;50 To 100, Deduct</i>	-1.93	
			<i>For &gt;100 To 250, Deduct</i>	-3.87	
			<i>For &gt;250 To 500, Deduct</i>	-6.74	
			<i>For &gt;500, Deduct</i>	-9.61	
06 05 23 00-0137	EA		1/2" Diameter x 2" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	16.05	
			<i>For &gt;10 To 50, Deduct</i>	-0.75	
			<i>For &gt;50 To 100, Deduct</i>	-1.52	
			<i>For &gt;100 To 250, Deduct</i>	-3.04	
			<i>For &gt;250 To 500, Deduct</i>	-5.30	
			<i>For &gt;500, Deduct</i>	-7.57	
06 05 23 00-0138	EA		1/2" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	17.34	
			<i>For &gt;10 To 50, Deduct</i>	-0.80	
			<i>For &gt;50 To 100, Deduct</i>	-1.63	
			<i>For &gt;100 To 250, Deduct</i>	-3.25	
			<i>For &gt;250 To 500, Deduct</i>	-5.68	
			<i>For &gt;500, Deduct</i>	-8.10	
06 05 23 00-0139	EA		1/2" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	19.01	
			<i>For &gt;10 To 50, Deduct</i>	-0.85	
			<i>For &gt;50 To 100, Deduct</i>	-1.74	
			<i>For &gt;100 To 250, Deduct</i>	-3.49	
			<i>For &gt;250 To 500, Deduct</i>	-6.07	
			<i>For &gt;500, Deduct</i>	-8.66	
06 05 23 00-0140	EA		1/2" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	22.23	
			<i>For &gt;10 To 50, Deduct</i>	-0.94	
			<i>For &gt;50 To 100, Deduct</i>	-1.97	
			<i>For &gt;100 To 250, Deduct</i>	-3.95	
			<i>For &gt;250 To 500, Deduct</i>	-6.86	
			<i>For &gt;500, Deduct</i>	-9.78	
06 05 23 00-0141	EA		1/2" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	25.60	
			<i>For &gt;10 To 50, Deduct</i>	-1.09	
			<i>For &gt;50 To 100, Deduct</i>	-2.28	
			<i>For &gt;100 To 250, Deduct</i>	-4.56	
			<i>For &gt;250 To 500, Deduct</i>	-7.94	
			<i>For &gt;500, Deduct</i>	-11.31	
06 05 23 00-0142	EA		1/2" Diameter x 12" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	28.54	
			<i>For &gt;10 To 50, Deduct</i>	-1.19	
			<i>For &gt;50 To 100, Deduct</i>	-2.50	
			<i>For &gt;100 To 250, Deduct</i>	-5.01	
			<i>For &gt;250 To 500, Deduct</i>	-8.70	
			<i>For &gt;500, Deduct</i>	-12.40	



MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0143	EA 3/4" Diameter x 4" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	23.77	
	For >10 To 50, Deduct	-0.94	
	For >50 To 100, Deduct	-2.01	
	For >100 To 250, Deduct	-4.02	
	For >250 To 500, Deduct	-6.98	
	For >500, Deduct	-9.93	
06 05 23 00-0144	EA 3/4" Diameter x 6" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	28.23	
	For >10 To 50, Deduct	-1.09	
	For >50 To 100, Deduct	-2.35	
	For >100 To 250, Deduct	-4.69	
	For >250 To 500, Deduct	-8.13	
	For >500, Deduct	-11.58	
06 05 23 00-0145	EA 3/4" Diameter x 8" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	31.65	
	For >10 To 50, Deduct	-1.14	
	For >50 To 100, Deduct	-2.51	
	For >100 To 250, Deduct	-5.01	
	For >250 To 500, Deduct	-8.66	
	For >500, Deduct	-12.31	
06 05 23 00-0146	EA 3/4" Diameter x 10" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	36.86	
	For >10 To 50, Deduct	-1.24	
	For >50 To 100, Deduct	-2.79	
	For >100 To 250, Deduct	-5.57	
	For >250 To 500, Deduct	-9.60	
	For >500, Deduct	-13.63	
06 05 23 00-0147	EA 3/4" Diameter x 12" Length, Hot Dipped Galvanized Steel, Hex Lag Bolt.....	41.29	
	For >10 To 50, Deduct	-1.29	
	For >50 To 100, Deduct	-2.97	
	For >100 To 250, Deduct	-5.94	
	For >250 To 500, Deduct	-10.21	
	For >500, Deduct	-14.47	
<b>06 05 23 00-0148</b>	<b>304/18-8 Stainless Steel, Hex Lag Bolts</b> <small>(06 05 23 00-0107)</small>		
06 05 23 00-0149	EA 1/4" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	13.28	
	For >10 To 50, Deduct	-0.63	
	For >50 To 100, Deduct	-1.28	
	For >100 To 250, Deduct	-2.57	
	For >250 To 500, Deduct	-4.48	
	For >500, Deduct	-6.40	
06 05 23 00-0150	EA 1/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	13.73	
	For >10 To 50, Deduct	-0.63	
	For >50 To 100, Deduct	-1.29	
	For >100 To 250, Deduct	-2.59	
	For >250 To 500, Deduct	-4.52	
	For >500, Deduct	-6.45	
06 05 23 00-0151	EA 1/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	14.95	
	For >10 To 50, Deduct	-0.63	
	For >50 To 100, Deduct	-1.32	
	For >100 To 250, Deduct	-2.65	
	For >250 To 500, Deduct	-4.61	
	For >500, Deduct	-6.57	
06 05 23 00-0152	EA 3/8" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	15.36	
	For >10 To 50, Deduct	-0.69	
	For >50 To 100, Deduct	-1.42	
	For >100 To 250, Deduct	-2.84	
	For >250 To 500, Deduct	-4.95	
	For >500, Deduct	-7.06	
06 05 23 00-0153	EA 3/8" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	17.02	
	For >10 To 50, Deduct	-0.74	
	For >50 To 100, Deduct	-1.54	
	For >100 To 250, Deduct	-3.07	
	For >250 To 500, Deduct	-5.35	
	For >500, Deduct	-7.62	
06 05 23 00-0154	EA 3/8" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	17.80	
	For >10 To 50, Deduct	-0.74	
	For >50 To 100, Deduct	-1.56	
	For >100 To 250, Deduct	-3.11	
	For >250 To 500, Deduct	-5.41	
	For >500, Deduct	-7.70	
06 05 23 00-0155	EA 3/8" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	31.62	
	For >10 To 50, Deduct	-0.89	
	For >50 To 100, Deduct	-2.12	
	For >100 To 250, Deduct	-4.25	
	For >250 To 500, Deduct	-7.26	
	For >500, Deduct	-10.27	
06 05 23 00-0156	EA 3/8" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	42.10	
	For >10 To 50, Deduct	-0.94	
	For >50 To 100, Deduct	-2.46	
	For >100 To 250, Deduct	-4.92	
	For >250 To 500, Deduct	-8.31	
	For >500, Deduct	-11.71	

**06 Wood, Plastics, and Composites****06 05 Common Work Results For Wood, Plastics, And Composites****06 05 23 Wood, Plastic, And Composite Fastenings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0157 EA 1/2" Diameter x 2" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	17.93	
For >10 To 50, Deduct	-0.75	
For >50 To 100, Deduct	-1.57	
For >100 To 250, Deduct	-3.13	
For >250 To 500, Deduct	-5.45	
For >500, Deduct	-7.76	
06 05 23 00-0158 EA 1/2" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	20.56	
For >10 To 50, Deduct	-0.80	
For >50 To 100, Deduct	-1.71	
For >100 To 250, Deduct	-3.41	
For >250 To 500, Deduct	-5.92	
For >500, Deduct	-8.42	
06 05 23 00-0159 EA 1/2" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	24.36	
For >10 To 50, Deduct	-0.85	
For >50 To 100, Deduct	-1.88	
For >100 To 250, Deduct	-3.75	
For >250 To 500, Deduct	-6.47	
For >500, Deduct	-9.20	
06 05 23 00-0160 EA 1/2" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	44.44	
For >10 To 50, Deduct	-0.94	
For >50 To 100, Deduct	-2.53	
For >100 To 250, Deduct	-5.06	
For >250 To 500, Deduct	-8.53	
For >500, Deduct	-12.00	
06 05 23 00-0161 EA 1/2" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	59.06	
For >10 To 50, Deduct	-1.09	
For >50 To 100, Deduct	-3.12	
For >100 To 250, Deduct	-6.24	
For >250 To 500, Deduct	-10.45	
For >500, Deduct	-14.66	
06 05 23 00-0162 EA 1/2" Diameter x 12" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	68.36	
For >10 To 50, Deduct	-1.19	
For >50 To 100, Deduct	-3.50	
For >100 To 250, Deduct	-7.00	
For >250 To 500, Deduct	-11.69	
For >500, Deduct	-16.38	
06 05 23 00-0163 EA 3/4" Diameter x 4" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	62.20	
For >10 To 50, Deduct	-0.94	
For >50 To 100, Deduct	-2.97	
For >100 To 250, Deduct	-5.94	
For >250 To 500, Deduct	-9.86	
For >500, Deduct	-13.78	
06 05 23 00-0164 EA 3/4" Diameter x 6" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	71.20	
For >10 To 50, Deduct	-1.09	
For >50 To 100, Deduct	-3.42	
For >100 To 250, Deduct	-6.84	
For >250 To 500, Deduct	-11.36	
For >500, Deduct	-15.87	
06 05 23 00-0165 EA 3/4" Diameter x 8" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	74.13	
For >10 To 50, Deduct	-1.14	
For >50 To 100, Deduct	-3.57	
For >100 To 250, Deduct	-7.14	
For >250 To 500, Deduct	-11.85	
For >500, Deduct	-16.56	
06 05 23 00-0166 EA 3/4" Diameter x 10" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	100.16	
For >10 To 50, Deduct	-1.24	
For >50 To 100, Deduct	-4.37	
For >100 To 250, Deduct	-8.74	
For >250 To 500, Deduct	-14.35	
For >500, Deduct	-19.96	
06 05 23 00-0167 EA 3/4" Diameter x 12" Length, 304/18-8 Stainless Steel, Hex Lag Bolt.....	108.82	
For >10 To 50, Deduct	-1.29	
For >50 To 100, Deduct	-4.66	
For >100 To 250, Deduct	-9.32	
For >250 To 500, Deduct	-15.27	
For >500, Deduct	-21.23	
<b>06 05 23 00-0168 Supports (06 05 23)</b>		
<b>06 05 23 00-0169 Shear Plates (06 05 23 00-0168)</b>		
06 05 23 00-0170 EA 2-5/8" Diameter, Shear Plate.....	10.56	3.75
For >10 To 50, Deduct	-0.42	
For >50 To 100, Deduct	-0.90	
For >100 To 250, Deduct	-1.80	
For >250 To 500, Deduct	-3.12	
For >500, Deduct	-4.44	
06 05 23 00-0171 EA 4" Diameter, Shear Plate.....	13.70	3.96
For >10 To 50, Deduct	-0.44	
For >50 To 100, Deduct	-1.00	
For >100 To 250, Deduct	-2.01	
For >250 To 500, Deduct	-3.45	
For >500, Deduct	-4.90	
<b>06 05 23 00-0172 Sill Anchors (06 05 23 00-0168)</b>		



<b>Wood, Plastics, and Composites 06</b>
<b>Common Work Results For Wood, Plastics, And Composites 06 05</b>
<b>Wood, Plastic, And Composite Fastenings 06 05 23</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0173 EA Sill Anchor Embedded In Concrete.....	9.40	3.96
<i>For &gt;10 To 50, Deduct</i>	-0.44	
<i>For &gt;50 To 100, Deduct</i>	-0.90	
<i>For &gt;100 To 250, Deduct</i>	-1.79	
<i>For &gt;250 To 500, Deduct</i>	-3.13	
<i>For &gt;500, Deduct</i>	-4.47	
<b>06 05 23 00-0174 Spike Grids (06 05 23 00-0168)</b>		
06 05 23 00-0175 EA 4" x 4" Flat Or Curved Spike Grid .....	9.20	3.75
<i>For &gt;10 To 50, Deduct</i>	-0.42	
<i>For &gt;50 To 100, Deduct</i>	-0.86	
<i>For &gt;100 To 250, Deduct</i>	-1.73	
<i>For &gt;250 To 500, Deduct</i>	-3.01	
<i>For &gt;500, Deduct</i>	-4.30	
<b>06 05 23 00-0176 Split Rings (06 05 23 00-0168)</b>		
06 05 23 00-0177 EA 2-1/2" Diameter Split Ring .....	9.67	3.75
<i>For &gt;10 To 50, Deduct</i>	-0.42	
<i>For &gt;50 To 100, Deduct</i>	-0.88	
<i>For &gt;100 To 250, Deduct</i>	-1.75	
<i>For &gt;250 To 500, Deduct</i>	-3.05	
<i>For &gt;500, Deduct</i>	-4.35	
06 05 23 00-0178 EA 4" Diameter Split Ring.....	11.27	4.16
<i>For &gt;10 To 50, Deduct</i>	-0.46	
<i>For &gt;50 To 100, Deduct</i>	-0.97	
<i>For &gt;100 To 250, Deduct</i>	-1.95	
<i>For &gt;250 To 500, Deduct</i>	-3.38	
<i>For &gt;500, Deduct</i>	-4.82	
<b>06 05 23 00-0179 Toothed Rings (06 05 23 00-0168)</b>		
06 05 23 00-0180 EA 2-5/8" Or 4" Toothed Ring.....	11.44	3.75
<i>For &gt;10 To 50, Deduct</i>	-0.42	
<i>For &gt;50 To 100, Deduct</i>	-0.92	
<i>For &gt;100 To 250, Deduct</i>	-1.84	
<i>For &gt;250 To 500, Deduct</i>	-3.18	
<i>For &gt;500, Deduct</i>	-4.52	
<b>06 05 23 00-0181 Straps And Shields (06 05 23)</b>		
<b>06 05 23 00-0182 Shield Plate (06 05 23 00-0181)</b>		
06 05 23 00-0183 EA 5" Wide x 8" Long, 16 Gauge, Shield Plate (Simpson Strong Tie® PSPN58Z) .....	5.82	
<i>For &gt;10 To 50, Deduct</i>	-0.06	
<i>For &gt;50 To 100, Deduct</i>	-0.21	
<i>For &gt;100 To 250, Deduct</i>	-0.42	
<i>For &gt;250 To 500, Deduct</i>	-0.75	
<i>For &gt;500, Deduct</i>	-1.16	
06 05 23 00-0184 EA 5" Wide x 16" Long, 16 Gauge, Shield Plate (Simpson Strong Tie® PSPN516Z) .....	8.61	
<i>For &gt;10 To 50, Deduct</i>	-0.08	
<i>For &gt;50 To 100, Deduct</i>	-0.29	
<i>For &gt;100 To 250, Deduct</i>	-0.58	
<i>For &gt;250 To 500, Deduct</i>	-1.03	
<i>For &gt;500, Deduct</i>	-1.56	
<b>06 05 23 00-0185 Strap Ties (06 05 23 00-0181)</b>		
06 05 23 00-0186 EA 1-1/4" Wide x 9" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA9).....	2.58	
<i>For &gt;10 To 50, Deduct</i>	-0.05	
<i>For &gt;50 To 100, Deduct</i>	-0.12	
<i>For &gt;100 To 250, Deduct</i>	-0.23	
<i>For &gt;250 To 500, Deduct</i>	-0.45	
<i>For &gt;500, Deduct</i>	-0.72	
06 05 23 00-0187 EA 1-1/4" Wide x 12" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA12).....	2.63	
<i>For &gt;10 To 50, Deduct</i>	-0.05	
<i>For &gt;50 To 100, Deduct</i>	-0.12	
<i>For &gt;100 To 250, Deduct</i>	-0.23	
<i>For &gt;250 To 500, Deduct</i>	-0.45	
<i>For &gt;500, Deduct</i>	-0.73	
06 05 23 00-0188 EA 1-1/4" Wide x 15" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA15).....	3.43	
<i>For &gt;10 To 50, Deduct</i>	-0.06	
<i>For &gt;50 To 100, Deduct</i>	-0.15	
<i>For &gt;100 To 250, Deduct</i>	-0.30	
<i>For &gt;250 To 500, Deduct</i>	-0.57	
<i>For &gt;500, Deduct</i>	-0.92	
06 05 23 00-0189 EA 1-1/4" Wide x 18" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA18).....	3.59	
<i>For &gt;10 To 50, Deduct</i>	-0.06	
<i>For &gt;50 To 100, Deduct</i>	-0.15	
<i>For &gt;100 To 250, Deduct</i>	-0.31	
<i>For &gt;250 To 500, Deduct</i>	-0.59	
<i>For &gt;500, Deduct</i>	-0.94	

**06 Wood, Plastics, and Composites**  
**06 05 Common Work Results For Wood, Plastics, And Composites**  
**06 05 23 Wood, Plastic, And Composite Fastenings**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0190 EA 1-1/4" Wide x 21" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA21).....	3.72	
For >10 To 50, Deduct	-0.06	
For >50 To 100, Deduct	-0.16	
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.60	
For >500, Deduct	-0.95	
06 05 23 00-0191 EA 1-1/4" Wide x 24" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA24).....	4.38	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.19	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.71	
For >500, Deduct	-1.14	
06 05 23 00-0192 EA 1-1/4" Wide x 30" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA30).....	4.75	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.74	
For >500, Deduct	-1.18	
06 05 23 00-0193 EA 1-1/4" Wide x 36" Long, 20 Gauge, Strap Tie (Simpson Strong Tie® LSTA36).....	5.62	
For >10 To 50, Deduct	-0.09	
For >50 To 100, Deduct	-0.23	
For >100 To 250, Deduct	-0.46	
For >250 To 500, Deduct	-0.87	
For >500, Deduct	-1.38	
06 05 23 00-0194 EA 1-1/4" Wide x 9" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA9).....	2.63	
For >10 To 50, Deduct	-0.05	
For >50 To 100, Deduct	-0.12	
For >100 To 250, Deduct	-0.23	
For >250 To 500, Deduct	-0.45	
For >500, Deduct	-0.73	
06 05 23 00-0195 EA 1-1/4" Wide x 12" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA12).....	2.81	
For >10 To 50, Deduct	-0.05	
For >50 To 100, Deduct	-0.12	
For >100 To 250, Deduct	-0.24	
For >250 To 500, Deduct	-0.46	
For >500, Deduct	-0.75	
06 05 23 00-0196 EA 1-1/4" Wide x 15" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA15).....	3.55	
For >10 To 50, Deduct	-0.06	
For >50 To 100, Deduct	-0.15	
For >100 To 250, Deduct	-0.30	
For >250 To 500, Deduct	-0.58	
For >500, Deduct	-0.94	
06 05 23 00-0197 EA 1-1/4" Wide x 18" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA18).....	3.75	
For >10 To 50, Deduct	-0.06	
For >50 To 100, Deduct	-0.16	
For >100 To 250, Deduct	-0.31	
For >250 To 500, Deduct	-0.60	
For >500, Deduct	-0.96	
06 05 23 00-0198 EA 1-1/4" Wide x 21" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA21).....	3.94	
For >10 To 50, Deduct	-0.06	
For >50 To 100, Deduct	-0.16	
For >100 To 250, Deduct	-0.32	
For >250 To 500, Deduct	-0.61	
For >500, Deduct	-0.98	
06 05 23 00-0199 EA 1-1/4" Wide x 24" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA24).....	4.67	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.19	
For >100 To 250, Deduct	-0.39	
For >250 To 500, Deduct	-0.73	
For >500, Deduct	-1.17	
06 05 23 00-0200 EA 1-1/4" Wide x 30" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA30).....	4.96	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.20	
For >100 To 250, Deduct	-0.40	
For >250 To 500, Deduct	-0.75	
For >500, Deduct	-1.20	
06 05 23 00-0201 EA 1-1/4" Wide x 36" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA36).....	5.97	
For >10 To 50, Deduct	-0.09	
For >50 To 100, Deduct	-0.24	
For >100 To 250, Deduct	-0.48	
For >250 To 500, Deduct	-0.89	
For >500, Deduct	-1.41	
06 05 23 00-0202 EA 1-1/4" Wide x 36" Long, 18 Gauge, Strap Tie (Simpson Strong Tie® MSTA49).....	7.60	
For >10 To 50, Deduct	-0.10	
For >50 To 100, Deduct	-0.29	
For >100 To 250, Deduct	-0.58	
For >250 To 500, Deduct	-1.08	
For >500, Deduct	-1.69	
06 05 23 00-0203 EA 1-1/4" Wide x 9" Long, 16 Gauge, Strap Tie (Simpson Strong Tie® ST9).....	2.87	
For >10 To 50, Deduct	-0.05	
For >50 To 100, Deduct	-0.12	
For >100 To 250, Deduct	-0.25	
For >250 To 500, Deduct	-0.47	
For >500, Deduct	-0.75	





<b>Wood, Plastics, and Composites</b> <b>06</b> <b>Common Work Results For Wood, Plastics, And Composites</b> <b>06 05</b> Wood, Plastic, And Composite Fastenings    06 05 23	<b>06</b>
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0204 EA 1-1/4" Wide x 12" Long, 16 Gauge, Strap Tie (Simpson Strong Tie® ST12).....	3.09	
For >10 To 50, Deduct	-0.05	
For >50 To 100, Deduct	-0.13	
For >100 To 250, Deduct	-0.26	
For >250 To 500, Deduct	-0.49	
For >500, Deduct	-0.78	
06 05 23 00-0205 EA 1-1/4" Wide x 18" Long, 16 Gauge, Strap Tie (Simpson Strong Tie® ST18).....	4.10	
For >10 To 50, Deduct	-0.06	
For >50 To 100, Deduct	-0.17	
For >100 To 250, Deduct	-0.33	
For >250 To 500, Deduct	-0.62	
For >500, Deduct	-0.99	
06 05 23 00-0206 EA 1-1/4" Wide x 22" Long, 16 Gauge, Strap Tie® (Simpson Strong Tie ST22).....	5.27	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.21	
For >100 To 250, Deduct	-0.42	
For >250 To 500, Deduct	-0.78	
For >500, Deduct	-1.23	
06 05 23 00-0207 EA 1-3/8" Wide x 6" Long, 12 Gauge, Strap Tie (Simpson Strong Tie® HRS6).....	3.49	
For >10 To 50, Deduct	-0.05	
For >50 To 100, Deduct	-0.14	
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.52	
For >500, Deduct	-0.82	
06 05 23 00-0208 EA 1-3/8" Wide x 8" Long, 12 Gauge, Strap Tie (Simpson Strong Tie® HRS8).....	3.66	
For >10 To 50, Deduct	-0.05	
For >50 To 100, Deduct	-0.14	
For >100 To 250, Deduct	-0.28	
For >250 To 500, Deduct	-0.53	
For >500, Deduct	-0.83	
06 05 23 00-0209 EA 1-3/8" Wide x 12" Long, 12 Gauge, Strap Tie (Simpson Strong Tie® HRS12).....	4.91	
For >10 To 50, Deduct	-0.06	
For >50 To 100, Deduct	-0.19	
For >100 To 250, Deduct	-0.37	
For >250 To 500, Deduct	-0.68	
For >500, Deduct	-1.07	
06 05 23 00-0210 EA 2-1/16" Wide x 27" Long, 12 Gauge, Medium Strap Tie (Simpson Strong Tie® MST27).....	8.39	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.29	
For >100 To 250, Deduct	-0.57	
For >250 To 500, Deduct	-1.01	
For >500, Deduct	-1.54	
06 05 23 00-0211 EA 2-1/16" Wide x 37" Long, 12 Gauge, Medium Strap Tie (Simpson Strong Tie® MST37).....	11.18	
For >10 To 50, Deduct	-0.09	
For >50 To 100, Deduct	-0.37	
For >100 To 250, Deduct	-0.74	
For >250 To 500, Deduct	-1.28	
For >500, Deduct	-1.93	
06 05 23 00-0212 EA 2-1/16" Wide x 48" Long, 12 Gauge, Medium Strap Tie (Simpson Strong Tie® MST48).....	14.61	
For >10 To 50, Deduct	-0.10	
For >50 To 100, Deduct	-0.47	
For >100 To 250, Deduct	-0.93	
For >250 To 500, Deduct	-1.60	
For >500, Deduct	-2.39	
06 05 23 00-0213 EA 2-1/16" Wide x 60" Long, 12 Gauge, Medium Strap Tie (Simpson Strong Tie® MST60).....	20.80	
For >10 To 50, Deduct	-0.11	
For >50 To 100, Deduct	-0.63	
For >100 To 250, Deduct	-1.27	
For >250 To 500, Deduct	-2.13	
For >500, Deduct	-3.13	
06 05 23 00-0214 EA 2-1/16" Wide x 72" Long, 12 Gauge, Medium Strap Tie (Simpson Strong Tie® MST72).....	26.60	
For >10 To 50, Deduct	-0.13	
For >50 To 100, Deduct	-0.79	
For >100 To 250, Deduct	-1.58	
For >250 To 500, Deduct	-2.63	
For >500, Deduct	-3.83	
06 05 23 00-0215 EA 3" Wide x 28" Long, 16 Gauge, Strap Ties (Simpson Strong Tie® MSTC28).....	8.93	
For >10 To 50, Deduct	-0.08	
For >50 To 100, Deduct	-0.30	
For >100 To 250, Deduct	-0.60	
For >250 To 500, Deduct	-1.05	
For >500, Deduct	-1.59	
06 05 23 00-0216 EA 3" Wide x 40" Long, 16 Gauge, Strap Ties (Simpson Strong Tie® MSTC40).....	11.97	
For >10 To 50, Deduct	-0.09	
For >50 To 100, Deduct	-0.39	
For >100 To 250, Deduct	-0.78	
For >250 To 500, Deduct	-1.34	
For >500, Deduct	-2.01	
06 05 23 00-0217 EA 3" Wide x 52" Long, 16 Gauge, Strap Ties (Simpson Strong Tie® MSTC52).....	14.83	
For >10 To 50, Deduct	-0.10	
For >50 To 100, Deduct	-0.47	
For >100 To 250, Deduct	-0.94	
For >250 To 500, Deduct	-1.62	
For >500, Deduct	-2.42	

**06 Wood, Plastics, and Composites****06 05 Common Work Results For Wood, Plastics, And Composites****06 05 23 Wood, Plastic, And Composite Fastenings**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
06 05 23 00-0218	EA 3" Wide x 66" Long, 16 Gauge, Strap Ties (Simpson Strong Tie® MSTC66).....	21.23	
	For >10 To 50, Deduct	-0.11	
	For >50 To 100, Deduct	-0.64	
	For >100 To 250, Deduct	-1.29	
	For >250 To 500, Deduct	-2.16	
	For >500, Deduct	-3.17	
<b>06 05 23 00-0219</b>	<b>Twist Strap Ties</b> (06 05 23 00-0181)		
06 05 23 00-0220	EA 1-1/4" Wide x 9" Long, 16 Gauge, Twist Strap Tie (Simpson Strong Tie® TS9).....	3.16	
	For >10 To 50, Deduct	-0.05	
	For >50 To 100, Deduct	-0.13	
	For >100 To 250, Deduct	-0.26	
	For >250 To 500, Deduct	-0.49	
	For >500, Deduct	-0.78	
06 05 23 00-0221	EA 1-1/4" Wide x 12" Long, 16 Gauge, Twist Strap Tie (Simpson Strong Tie® TS12).....	3.56	
	For >10 To 50, Deduct	-0.05	
	For >50 To 100, Deduct	-0.14	
	For >100 To 250, Deduct	-0.28	
	For >250 To 500, Deduct	-0.52	
	For >500, Deduct	-0.82	
06 05 23 00-0222	EA 1-1/4" Wide x 18" Long, 16 Gauge, Twist Strap Tie (Simpson Strong Tie® TS18).....	4.75	
	For >10 To 50, Deduct	-0.06	
	For >50 To 100, Deduct	-0.18	
	For >100 To 250, Deduct	-0.36	
	For >250 To 500, Deduct	-0.67	
	For >500, Deduct	-1.06	
06 05 23 00-0223	EA 1-1/4" Wide x 22" Long, 16 Gauge, Twist Strap Tie (Simpson Strong Tie® TS22).....	5.65	
	For >10 To 50, Deduct	-0.08	
	For >50 To 100, Deduct	-0.22	
	For >100 To 250, Deduct	-0.44	
	For >250 To 500, Deduct	-0.81	
	For >500, Deduct	-1.27	
<b>06 05 23 00-0224</b>	<b>Retrofit Plate Strap</b> (06 05 23 00-0181)		
06 05 23 00-0225	EA 1-3/8" Wide x 18" Long, 16 Gauge, Retrofit Plate Strap (Simpson Strong Tie® RPS18).....	4.30	
	For >10 To 50, Deduct	-0.06	
	For >50 To 100, Deduct	-0.17	
	For >100 To 250, Deduct	-0.34	
	For >250 To 500, Deduct	-0.64	
	For >500, Deduct	-1.01	
06 05 23 00-0226	EA 1-3/8" Wide x 22" Long, 16 Gauge, Retrofit Plate Strap (Simpson Strong Tie® RPS22).....	4.68	
	For >10 To 50, Deduct	-0.06	
	For >50 To 100, Deduct	-0.18	
	For >100 To 250, Deduct	-0.36	
	For >250 To 500, Deduct	-0.67	
	For >500, Deduct	-1.05	
06 05 23 00-0227	EA 1-3/8" Wide x 28" Long, 16 Gauge, Retrofit Plate Strap (Simpson Strong Tie® RPS28).....	5.26	
	For >10 To 50, Deduct	-0.06	
	For >50 To 100, Deduct	-0.19	
	For >100 To 250, Deduct	-0.39	
	For >250 To 500, Deduct	-0.71	
	For >500, Deduct	-1.11	
<b>06 05 23 00-0228</b>	<b>Stud Shoe</b> (06 05 23 00-0181)		
06 05 23 00-0229	EA 6" High With 3-1/4" Wide Tabs For 2X Stud, 16 Gauge, Stud Shoe (Simpson Strong Tie® SS1.5).....	7.49	
	For >10 To 50, Deduct	-0.08	
	For >50 To 100, Deduct	-0.26	
	For >100 To 250, Deduct	-0.53	
	For >250 To 500, Deduct	-0.94	
	For >500, Deduct	-1.45	
06 05 23 00-0230	EA 6" High With 3-1/4" Wide Tabs For 3X Stud, 16 Gauge, Stud Shoe (Simpson Strong Tie® SS2.5).....	10.85	
	For >10 To 50, Deduct	-0.08	
	For >50 To 100, Deduct	-0.35	
	For >100 To 250, Deduct	-0.70	
	For >250 To 500, Deduct	-1.20	
	For >500, Deduct	-1.79	
06 05 23 00-0231	EA 6" High With 3-1/4" Wide Tabs For 2-2X Studs, 16 Gauge, Stud Shoe (Simpson Strong Tie® SS3).....	11.02	
	For >10 To 50, Deduct	-0.08	
	For >50 To 100, Deduct	-0.35	
	For >100 To 250, Deduct	-0.70	
	For >250 To 500, Deduct	-1.21	
	For >500, Deduct	-1.80	
06 05 23 00-0232	EA 6" High With 3-1/4" Wide Tabs For 3-2X Studs, 16 Gauge, Stud Shoe (Simpson Strong Tie SS4.5).....	15.04	
	For >10 To 50, Deduct	-0.08	
	For >50 To 100, Deduct	-0.45	
	For >100 To 250, Deduct	-0.90	
	For >250 To 500, Deduct	-1.51	
	For >500, Deduct	-2.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 05 23 00-0233 EA 7-1/8" High With 3-1/4" Wide Tabs For 2X Studs, 16 Gauge, Stud Shoe (Simpson Strong Tie HSS2-SDS1.5).....	16.78	
<i>For &gt;10 To 50, Deduct</i>	-0.08	
<i>For &gt;50 To 100, Deduct</i>	-0.50	
<i>For &gt;100 To 250, Deduct</i>	-0.99	
<i>For &gt;250 To 500, Deduct</i>	-1.64	
<i>For &gt;500, Deduct</i>	-2.38	
06 05 23 00-0234 EA 7-1/8" High With 3-1/4" Wide Tabs For 2-2X Studs, 16 Gauge, Stud Shoe (Simpson Strong Tie HSS2-2-SDS3) .....	20.52	
<i>For &gt;10 To 50, Deduct</i>	-0.08	
<i>For &gt;50 To 100, Deduct</i>	-0.59	
<i>For &gt;100 To 250, Deduct</i>	-1.18	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.75	
06 05 23 00-0235 EA 7-1/8" High With 3-1/4" Wide Tabs For 3-2X Studs, 16 Gauge, Stud Shoe (Simpson Strong Tie HSS2-3-SDS3) .....	20.52	
<i>For &gt;10 To 50, Deduct</i>	-0.08	
<i>For &gt;50 To 100, Deduct</i>	-0.59	
<i>For &gt;100 To 250, Deduct</i>	-1.18	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.75	
06 05 23 00-0236 EA 7-1/8" High With 3-1/4" Wide Tabs For 4X Studs, 16 Gauge, Stud Shoe (Simpson Strong Tie HSS4-SDS3).....	20.52	
<i>For &gt;10 To 50, Deduct</i>	-0.08	
<i>For &gt;50 To 100, Deduct</i>	-0.59	
<i>For &gt;100 To 250, Deduct</i>	-1.18	
<i>For &gt;250 To 500, Deduct</i>	-1.92	
<i>For &gt;500, Deduct</i>	-2.75	
<b>06 05 23 00-0237 Nail Stops</b> <small>(06 05 23 00-0181)</small>		
06 05 23 00-0238 EA 1-1/2" Wide x 3" Long, 16 Gauge, Nail Stops (Simpson Strong Tie® NS1).....	2.45	
<i>For &gt;10 To 50, Deduct</i>	-0.05	
<i>For &gt;50 To 100, Deduct</i>	-0.11	
<i>For &gt;100 To 250, Deduct</i>	-0.22	
<i>For &gt;250 To 500, Deduct</i>	-0.44	
<i>For &gt;500, Deduct</i>	-0.71	
06 05 23 00-0239 EA 1-1/2" Wide x 6" Long, 16 Gauge, Nail Stops (Simpson Strong Tie® NS2).....	2.74	
<i>For &gt;10 To 50, Deduct</i>	-0.05	
<i>For &gt;50 To 100, Deduct</i>	-0.12	
<i>For &gt;100 To 250, Deduct</i>	-0.24	
<i>For &gt;250 To 500, Deduct</i>	-0.46	
<i>For &gt;500, Deduct</i>	-0.74	
<b>06 05 73 Wood Treatment</b> <small>(06 05)</small>		
<b>06 05 73 13 Fire-Retardant Wood Treatment</b> <small>(06 05 73)</small>		
06 05 73 13-0001 Preservative Treated Lumber <small>(06 05 73 13)</small>		
06 05 73 13-0002 Fire Retardant Treatment (FRT) For Lumber <small>(06 05 73 13-0001)</small>		
06 05 73 13-0003 MBF Fire Retardant Treatment (FRT) For Lumber.....	409.51	
<b>06 05 73 33 Preservative Wood Treatment</b> <small>(06 05 73)</small>		
06 05 73 33-0001 Preservative Treatment For Marine And Fresh Water Uses <small>(06 05 73 33)</small>		
06 05 73 33-0002 MBF Preservative Treatment For Marine And Fresh Water Lumber .....	113.30	
<b>06 10 Rough Carpentry</b> <small>(06)</small>		
<b>06 11 Wood Framing</b> <small>(06 10)</small>		
Note: All framing lumber is grade #2 or better unless otherwise listed. Dimensions are nominal. See CSI section 06 05 23 00-0000 for anchors and supports.		
<b>06 11 13 Engineered Wood Products</b> <small>(06 11)</small>		
Note: All framing lumber is grade #2 or better unless otherwise listed. Dimensions are nominal.		
06 11 13 00-0001 Built-Up Members <small>(06 11 13)</small>		
Note: A structural framing member made from fastening separate pieces of lumber together.		
06 11 13 00-0002 Built-Up Beams Or Joists <small>(06 11 13 00-0001)</small>		
06 11 13 00-0003 LF Two 2" x 6" Built-up Wood Beam Or Joist.....	4.04	1.74
<i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	0.70	
06 11 13 00-0004 LF Two 2" x 8" Built-up Wood Beam Or Joist.....	5.04	2.04
<i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	0.99	
06 11 13 00-0005 LF Two 2" x 10" Built-up Wood Beam Or Joist.....	6.41	2.45
<i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	1.37	
06 11 13 00-0006 Built-Up Posts <small>(06 11 13 00-0001)</small>		
06 11 13 00-0007 LF Two 2" x 6" Built-up Wood Post.....	4.04	1.74
<i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	0.70	
06 11 13 00-0008 LF Two 2" x 8" Built-up Wood Post.....	5.04	2.04
<i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	0.99	
06 11 13 00-0009 LF Two 2" x 10" Built-up Wood Post.....	6.41	2.45
<i>For Each Additional 2" x_ " In The Built Up Member, Add</i>	1.37	

**06 Wood, Plastics, and Composites****06 10 Rough Carpentry****06 11 Wood Framing**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**06 11 16 Mechanically Graded Lumber (06 11)****06 11 16 00-0001 Rafters And Joists (06 11 16)****06 11 16 00-0002 Rafters (06 11 16 00-0001)**

Note: An inclined roof framing member to which a roof covering is attached.

06 11 16 00-0003	LF	2" x 6" Wood Rafter .....	2.32	1.22
06 11 16 00-0004	LF	2" x 8" Wood Rafter .....	2.72	1.33
06 11 16 00-0005	LF	2" x 10" Wood Rafter .....	3.92	1.94
06 11 16 00-0006	LF	2" x 12" Wood Rafter .....	4.51	2.15
06 11 16 00-0007	LF	2" x 14" Wood Rafter .....	4.91	2.35
06 11 16 00-0008	LF	2" x 6" Pressure Treated Wood Rafter.....	3.19	1.22
06 11 16 00-0009	LF	2" x 8" Pressure Treated Wood Rafter.....	3.93	1.33
06 11 16 00-0010	LF	2" x 10" Pressure Treated Wood Rafter.....	5.26	1.94
06 11 16 00-0011	LF	2" x 12" Pressure Treated Wood Rafter.....	6.38	2.15

**06 11 16 00-0012 Joists (06 11 16 00-0001)**

Note: A series of parallel beams to support floors or ceilings.

06 11 16 00-0013	LF	2" x 6" Wood Floor Joist.....	2.02	1.02
06 11 16 00-0014	LF	2" x 8" Wood Floor Joist.....	2.51	1.12
06 11 16 00-0015	LF	2" x 10" Wood Floor Joist.....	3.21	1.43
06 11 16 00-0016	LF	2" x 12" Wood Floor Joist.....	3.81	1.63
06 11 16 00-0017	LF	2" x 14" Wood Floor Joist.....	4.19	1.74
06 11 16 00-0018	LF	2" x 6" Pressure Treated Wood Floor Joist.....	2.89	1.02
06 11 16 00-0019	LF	2" x 8" Pressure Treated Wood Floor Joist.....	3.72	1.12
06 11 16 00-0020	LF	2" x 10" Pressure Treated Wood Floor Joist.....	4.55	1.43
06 11 16 00-0021	LF	2" x 12" Pressure Treated Wood Floor Joist.....	5.68	1.63

**06 11 16 00-0022 Purlins (06 11 16 00-0001)**

Note: A horizontal structural member in a roof, supporting the loads from the roof deck or sheathing.

06 11 16 00-0023	LF	2" x 4" Wood Purlin .....	1.63	0.62
06 11 16 00-0024	LF	2" x 6" Wood Purlin .....	2.04	0.68
06 11 16 00-0025	LF	2" x 8" Wood Purlin .....	2.46	0.75
06 11 16 00-0026	LF	2" x 10" Wood Purlin .....	3.00	0.82
06 11 16 00-0027	LF	2" x 4" Pressure Treated Wood Purlin .....	2.15	0.62
06 11 16 00-0028	LF	2" x 6" Pressure Treated Wood Purlin .....	2.91	0.68
06 11 16 00-0029	LF	2" x 8" Pressure Treated Wood Purlin .....	3.67	0.75
06 11 16 00-0030	LF	2" x 10" Pressure Treated Wood Purlin .....	4.34	0.82

**06 11 16 00-0031 Exposed Rafters Or Joists (06 11 16 00-0001)****06 11 16 00-0032 Redwood Rafters Or Joists (06 11 16 00-0031)**

06 11 16 00-0033	LF	2" x 6" Redwood Rafter Or Joist .....	3.05	1.02
06 11 16 00-0034	LF	2" x 8" Redwood Rafter Or Joist .....	3.71	1.12
06 11 16 00-0035	LF	2" x 10" Redwood Rafter Or Joist .....	4.62	1.43
06 11 16 00-0036	LF	2" x 12" Redwood Rafter Or Joist .....	5.60	1.63

**06 11 16 00-0037 Cedar Rafters Or Joists (06 11 16 00-0031)**

06 11 16 00-0038	LF	2" x 6" Cedar Rafter Or Joist.....	2.03	1.02
06 11 16 00-0039	LF	2" x 8" Cedar Rafter Or Joist.....	2.28	1.12
06 11 16 00-0040	LF	2" x 10" Cedar Rafter Or Joist.....	2.64	1.43
06 11 16 00-0041	LF	2" x 12" Cedar Rafter Or Joist.....	2.99	1.63

**06 11 16 00-0042 Oak Rafters Or Joists (06 11 16 00-0031)**

06 11 16 00-0043	LF	2" x 6" Oak Rafter Or Joist.....	2.45	1.02
06 11 16 00-0044	LF	2" x 8" Oak Rafter Or Joist.....	3.33	1.12
06 11 16 00-0045	LF	2" x 10" Oak Rafter Or Joist.....	4.33	1.43
06 11 16 00-0046	LF	2" x 12" Oak Rafter Or Joist.....	5.32	1.63

**06 11 16 00-0047 Framing (06 11 16)****06 11 16 00-0048 Partition Framing (06 11 16 00-0047)**

06 11 16 00-0049	LF	2" x 4" Wood Stud Framing, For Partition Walls.....	1.58	0.82
06 11 16 00-0050	LF	2" x 6" Wood Stud Framing, For Partition Walls.....	1.91	0.87
06 11 16 00-0051	LF	2" x 8" Wood Stud Framing, For Partition Walls.....	2.26	0.92
06 11 16 00-0052	LF	2" x 4" Pressure Treated Wood Stud Framing, For Partition Walls.....	2.10	0.82
06 11 16 00-0053	LF	2" x 6" Pressure Treated Wood Stud Framing, For Partition Walls.....	2.78	0.87
06 11 16 00-0054	LF	2" x 8" Pressure Treated Wood Stud Framing, For Partition Walls.....	3.47	0.92

**06 11 16 00-0055 Wall Framing Assemblies By The SF (06 11 16 00-0047)**

Note: Includes single bottom and double top plates, center support bracing, vertical studs and appropriate fastening devices. Excludes blocking for wall mounted fixtures or cabinets. Per SF of wall area measures one side. Do not deduct for openings of less than 25 SF when calculating total wall square footage.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>06 11 16 00-0056</b> Wall Framing By The SF, 12" On Center <small>(06 11 16 00-0055)</small>		
06 11 16 00-0057 SF 2" x 4" Wood Wall Framing At 12" On Center.....	2.06	0.98
For Up To 200, Add	0.70	
For >200 To 500, Add	0.35	
06 11 16 00-0058 SF 2" x 6" Wood Wall Framing At 12" On Center.....	2.77	1.27
For Up To 200, Add	0.93	
For >200 To 500, Add	0.46	
06 11 16 00-0059 SF 2" x 8" Wood Wall Framing At 12" On Center.....	3.69	1.69
For Up To 200, Add	1.24	
For >200 To 500, Add	0.62	
<b>06 11 16 00-0060</b> Wall Framing By The SF, 16" On Center <small>(06 11 16 00-0055)</small>		
06 11 16 00-0061 SF 2" x 4" Wood Wall Framing At 16" On Center.....	1.67	0.80
For Up To 200, Add	0.57	
For >200 To 500, Add	0.28	
06 11 16 00-0062 SF 2" x 6" Wood Wall Framing At 16" On Center.....	2.29	1.05
For Up To 200, Add	0.77	
For >200 To 500, Add	0.38	
06 11 16 00-0063 SF 2" x 8" Wood Wall Framing At 16" On Center.....	3.07	1.41
For Up To 200, Add	1.03	
For >200 To 500, Add	0.52	
<b>06 11 16 00-0064</b> Wall Framing By The SF, 24" On Center <small>(06 11 16 00-0055)</small>		
06 11 16 00-0065 SF 2" x 4" Wood Wall Framing At 24" On Center.....	1.31	0.63
For Up To 200, Add	0.45	
For >200 To 500, Add	0.22	
06 11 16 00-0066 SF 2" x 6" Wood Wall Framing At 24" On Center.....	1.80	0.82
For Up To 200, Add	0.60	
For >200 To 500, Add	0.30	
06 11 16 00-0067 SF 2" x 8" Wood Wall Framing At 24" On Center.....	2.40	1.09
For Up To 200, Add	0.80	
For >200 To 500, Add	0.40	
<b>06 11 16 00-0068</b> Sills And Plates <small>(06 11 16)</small>		
<b>06 11 16 00-0069</b> Sills <small>(06 11 16 00-0068)</small>		
Note: A horizontal member which rests on and is attached to the foundation.		
06 11 16 00-0070 LF 2" x 4" Wood Sill.....	2.71	1.53
06 11 16 00-0071 LF 2" x 6" Wood Sill.....	3.24	1.74
06 11 16 00-0072 LF 2" x 8" Wood Sill.....	3.86	1.94
06 11 16 00-0073 LF 2" x 4" Pressure Treated Wood Sill.....	3.23	1.53
06 11 16 00-0074 LF 2" x 6" Pressure Treated Wood Sill.....	4.11	1.74
06 11 16 00-0075 LF 2" x 8" Pressure Treated Wood Sill.....	5.07	1.94
<b>06 11 16 00-0076</b> Plates <small>(06 11 16 00-0068)</small>		
Note: A horizontal member connecting and terminating studs, posts, joists, rafters, etc. such as the top and bottom plate on a stud framed partition wall.		
06 11 16 00-0077 LF 2" x 4" Wood Plate.....	2.71	1.53
06 11 16 00-0078 LF 2" x 6" Wood Plate.....	3.24	1.74
06 11 16 00-0079 LF 2" x 8" Wood Plate.....	3.83	1.94
06 11 16 00-0080 LF 2" x 4" Pressure Treated Wood Plate.....	3.23	1.53
06 11 16 00-0081 LF 2" x 6" Pressure Treated Wood Plate.....	4.11	1.74
06 11 16 00-0082 LF 2" x 8" Pressure Treated Wood Plate.....	5.04	1.94
<b>06 11 16 00-0083</b> Sills And Plates From Redwood <small>(06 11 16 00-0068)</small>		
<b>06 11 16 00-0084</b> Construction Grade/Rough <small>(06 11 16 00-0083)</small>		
06 11 16 00-0085 LF 2" x 6" Redwood, Construction Grade/Rough.....	4.28	1.74
06 11 16 00-0086 LF 2" x 8" Redwood, Construction Grade/Rough.....	5.51	1.94
06 11 16 00-0087 LF 2" x 10" Redwood, Construction Grade/Rough.....	6.68	2.15
06 11 16 00-0088 LF 2" x 12" Redwood, Construction Grade/Rough.....	8.06	2.35
<b>06 11 16 00-0089</b> Con Heart/Smooth <small>(06 11 16 00-0083)</small>		
06 11 16 00-0090 LF 2" x 6" Redwood, Con Heart/Smooth.....	5.01	1.74
06 11 16 00-0091 LF 2" x 8" Redwood, Con Heart/Smooth.....	6.61	1.94
06 11 16 00-0092 LF 2" x 10" Redwood, Con Heart/Smooth.....	8.55	2.15
06 11 16 00-0093 LF 2" x 12" Redwood, Con Heart/Smooth.....	10.28	2.35
<b>06 11 16 00-0094</b> Suspended Ceiling Framing <small>(06 11 16)</small>		
06 11 16 00-0095 LF 1" x 2" Wood Suspended Ceiling Framing.....	2.23	1.33
06 11 16 00-0096 LF 1" x 3" Wood Suspended Ceiling Framing.....	2.43	1.43
06 11 16 00-0097 LF 2" x 2" Wood Suspended Ceiling Framing.....	2.63	1.53
06 11 16 00-0098 LF 2" x 4" Wood Suspended Ceiling Framing.....	3.11	1.74
06 11 16 00-0099 LF 1" x 2" Pressure Treated Wood Suspended Ceiling Framing.....	2.60	1.33

**06 Wood, Plastics, and Composites****06 10 Rough Carpentry****06 11 Wood Framing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0100 LF 1" x 3" Pressure Treated Wood Suspended Ceiling Framing .....	2.42	1.43
06 11 16 00-0101 LF 2" x 2" Pressure Treated Wood Suspended Ceiling Framing .....	3.09	1.53
06 11 16 00-0102 LF 2" x 4" Pressure Treated Wood Suspended Ceiling Framing .....	3.58	1.74
<b>06 11 16 00-0103 Posts And Girts (06 11 16)</b>		
<b>06 11 16 00-0104 Posts (06 11 16 00-0103)</b>		
Note: A vertical, upright framing member.		
06 11 16 00-0105 LF 4" x 4" Wood Post .....	3.78	1.94
06 11 16 00-0106 LF 4" x 5" Wood Post .....	4.29	2.25
06 11 16 00-0107 LF 4" x 6" Wood Post .....	4.74	2.45
06 11 16 00-0108 LF 6" x 6" Wood Post .....	5.27	2.65
06 11 16 00-0109 LF 8" x 8" Wood Post .....	5.79	2.75
06 11 16 00-0110 LF 10" x 10" Wood Post .....	6.32	3.17
06 11 16 00-0111 LF 4" x 4" Pressure Treated Wood Post .....	5.33	1.94
06 11 16 00-0112 LF 4" x 6" Pressure Treated Wood Post .....	6.91	2.45
06 11 16 00-0113 LF 6" x 6" Pressure Treated Wood Post .....	8.91	2.65
<b>06 11 16 00-0114 Girts (06 11 16 00-0103)</b>		
Note: A horizontal member at intermediate level between columns, studs, or posts.		
06 11 16 00-0115 LF 2" x 4" Wood Girt .....	1.88	0.74
06 11 16 00-0116 LF 2" x 6" Wood Girt .....	2.30	0.81
06 11 16 00-0117 LF 2" x 8" Wood Girt .....	2.76	0.89
06 11 16 00-0118 LF 2" x 10" Wood Girt .....	3.33	0.98
06 11 16 00-0119 LF 4" x 4" Wood Girt .....	3.68	1.47
06 11 16 00-0120 LF 4" x 5" Wood Girt .....	4.20	1.65
06 11 16 00-0121 LF 4" x 6" Wood Girt .....	4.72	1.84
06 11 16 00-0122 LF 6" x 6" Wood Girt .....	5.25	2.02
06 11 16 00-0123 LF 8" x 8" Wood Girt .....	5.78	2.21
06 11 16 00-0124 LF 10" x 10" Wood Girt .....	6.31	2.40
06 11 16 00-0125 LF 2" x 4" Pressure Treated Wood Girt .....	2.40	0.74
06 11 16 00-0126 LF 2" x 6" Pressure Treated Wood Girt .....	3.17	0.81
06 11 16 00-0127 LF 2" x 8" Pressure Treated Wood Girt .....	3.97	0.89
06 11 16 00-0128 LF 2" x 10" Pressure Treated Wood Girt .....	4.67	0.98
06 11 16 00-0129 LF 4" x 4" Pressure Treated Wood Girt .....	5.33	1.47
06 11 16 00-0130 LF 4" x 6" Pressure Treated Wood Girt .....	6.91	1.84
06 11 16 00-0131 LF 6" x 6" Pressure Treated Wood Girt .....	8.91	2.02
<b>06 11 16 00-0132 Construction Grade/Rough Redwood Posts (06 11 16 00-0103)</b>		
06 11 16 00-0133 LF 4" x 4" Redwood, Construction Grade/Rough Post .....	6.28	1.94
For Smooth "Clear", Add	0.67	
06 11 16 00-0134 LF 4" x 5" Redwood, Construction Grade/Rough Post .....	7.46	2.25
For Smooth "Clear", Add	0.83	
06 11 16 00-0135 LF 4" x 6" Redwood, Construction Grade/Rough Post .....	8.68	2.45
For Smooth "Clear", Add	1.00	
06 11 16 00-0136 LF 4" x 8" Redwood, Construction Grade/Rough Post .....	10.51	2.52
For Smooth "Clear", Add	1.34	
06 11 16 00-0137 LF 4" x 10" Redwood, Construction Grade/Rough Post .....	12.41	2.68
For Smooth "Clear", Add	1.67	
06 11 16 00-0138 LF 6" x 6" Redwood, Construction Grade/Rough Post .....	11.56	2.65
For Smooth "Clear", Add	1.50	
06 11 16 00-0139 LF 6" x 8" Redwood, Construction Grade/Rough Post .....	14.21	2.75
For Smooth "Clear", Add	2.00	
06 11 16 00-0140 LF 6" x 10" Redwood, Construction Grade/Rough Post .....	16.83	2.59
For Smooth "Clear", Add	2.50	
06 11 16 00-0141 LF 8" x 8" Redwood, Construction Grade/Rough Post .....	17.77	2.75
For Smooth "Clear", Add	2.67	
<b>06 11 16 00-0142 Stair Stringers (06 11 16)</b>		
06 11 16 00-0143 LF 2" x 10" Wood Stair Stringer .....	7.46	4.09
06 11 16 00-0144 LF 2" x 12" Wood Stair Stringer .....	8.82	4.80
06 11 16 00-0145 LF 2" x 10" Pressure Treated Wood Stair Stringer .....	8.83	4.09
06 11 16 00-0146 LF 2" x 12" Pressure Treated Wood Stair Stringer .....	10.68	4.80
<b>06 11 16 00-0147 Blocking (06 11 16)</b>		
<b>06 11 16 00-0148 Blocking (06 11 16 00-0147)</b>		
<b>06 11 16 00-0149 Blocking To Wood (06 11 16 00-0148)</b>		
06 11 16 00-0150 LF 2" x 4" Pressure Treated Wood Blocking To Wood .....	6.25	2.45
06 11 16 00-0151 LF 2" x 6" Pressure Treated Wood Blocking To Wood .....	7.64	2.69
06 11 16 00-0152 LF 2" x 8" Pressure Treated Wood Blocking To Wood .....	8.82	2.96
06 11 16 00-0153 LF 4" x 4" Pressure Treated Wood Blocking To Wood .....	10.42	3.26
06 11 16 00-0154 LF 4" x 6" Pressure Treated Wood Blocking To Wood .....	11.15	3.58
06 11 16 00-0155 LF 2" x 4" Wood Blocking To Wood .....	5.31	2.45
06 11 16 00-0156 LF 2" x 6" Wood Blocking To Wood .....	6.08	2.69
06 11 16 00-0157 LF 2" x 8" Wood Blocking To Wood .....	6.91	2.96



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 11 16 00-0158 LF 4" x 4" Wood Blocking To Wood.....	7.37	3.26
06 11 16 00-0159 LF 4" x 6" Wood Blocking To Wood.....	8.25	3.58
<b>06 11 16 00-0160 Blocking To Steel</b> <small>(06 11 16 00-0148)</small>		
06 11 16 00-0161 LF 2" x 4" Pressure Treated Wood Blocking To Steel.....	7.12	2.82
06 11 16 00-0162 LF 2" x 6" Pressure Treated Wood Blocking To Steel.....	8.67	3.11
06 11 16 00-0163 LF 2" x 8" Pressure Treated Wood Blocking To Steel.....	10.00	3.41
06 11 16 00-0164 LF 2" x 4" Wood Blocking To Steel .....	6.10	2.82
06 11 16 00-0165 LF 2" x 6" Wood Blocking To Steel .....	6.96	3.11
06 11 16 00-0166 LF 2" x 8" Wood Blocking To Steel .....	7.90	3.41
<b>06 11 16 00-0167 Blocking To Concrete</b> <small>(06 11 16 00-0148)</small>		
06 11 16 00-0168 LF 2" x 4" Pressure Treated Wood Blocking To Concrete .....	7.12	2.82
06 11 16 00-0169 LF 2" x 6" Pressure Treated Wood Blocking To Concrete .....	8.67	3.11
06 11 16 00-0170 LF 2" x 8" Pressure Treated Wood Blocking To Concrete .....	10.00	3.41
06 11 16 00-0171 LF 2" x 4" Wood Blocking To Concrete .....	6.10	2.82
06 11 16 00-0172 LF 2" x 6" Wood Blocking To Concrete .....	6.96	3.11
06 11 16 00-0173 LF 2" x 8" Wood Blocking To Concrete .....	7.90	3.41
<b>06 11 16 00-0174 Pressure Treated Lattice</b> <small>(06 11 16 00-0147)</small>		
06 11 16 00-0175 SF 3/4" Thick Pressure Treated Wood Lattice .....	5.97	2.15
<b>06 11 16 00-0176 Roofing Nailers</b> <small>(06 11 16)</small>		
06 11 16 00-0177 LF 2" x 4" Pressure Treated Lumber, For Roofing Nailers.....	3.28	0.82
06 11 16 00-0178 LF 2" x 6" Pressure Treated Lumber, For Roofing Nailers.....	4.01	0.87
06 11 16 00-0179 LF 2" x 8" Pressure Treated Lumber, For Roofing Nailers.....	4.74	0.92
<b>06 11 16 00-0180 Roofing Sleepers</b> <small>(06 11 16)</small>		
06 11 16 00-0181 LF 2" x 4" Pressure Treated Lumber, For Roofing Sleepers.....	1.70	
06 11 16 00-0182 LF 4" x 4" Pressure Treated Lumber, For Roofing Sleepers.....	3.87	
06 11 16 00-0183 LF 4" x 6" Pressure Treated Lumber, For Roofing Sleepers.....	5.08	
06 11 16 00-0184 LF 6" x 6" Pressure Treated Lumber, For Roofing Sleepers.....	6.90	
<b>06 11 16 00-0185 Canopy Framing, Bridging, And Furring</b> <small>(06 11 16)</small>		
<b>06 11 16 00-0186 Wood And Steel Bridging</b> <small>(06 11 16 00-0185)</small>		
<b>06 11 16 00-0187 Wood Bridging</b> <small>(06 11 16 00-0186)</small>		
06 11 16 00-0188 EA 1 Pair Wood Bridging, 1" x 3" Cross Type .....	8.21	3.57
<small>Note: For joists spaced at 16" on center.</small>		
06 11 16 00-0189 EA 1 Pair Wood Bridging, 2" x 3" Cross Type .....	8.44	3.57
<small>Note: For joists spaced at 16" on center.</small>		
<b>06 11 16 00-0190 Steel Bridging</b> <small>(06 11 16 00-0186)</small>		
06 11 16 00-0191 EA 1 Pair Steel Bridging, Wood Joists At 16" On Center.....	9.21	3.57
06 11 16 00-0192 EA 1 Pair Steel Bridging, Wood Joists At 24" On Center.....	9.19	3.57
<b>06 11 16 00-0193 Light Framing, Trim And Furring</b> <small>(06 11 16 00-0185)</small>		
<b>06 11 16 00-0194 Pine/Spruce/Fir Light Framing, Trim And Furring</b> <small>(06 11 16 00-0193)</small>		
06 11 16 00-0195 LF 1" x 1" Pine/Spruce/Fir Light Framing, Trim And Furring .....	1.80	0.84
06 11 16 00-0196 LF 1" x 2" Pine/Spruce/Fir Light Framing, Trim And Furring .....	2.03	0.92
06 11 16 00-0197 LF 1" x 4" Pine/Spruce/Fir Light Framing, Trim And Furring .....	2.32	1.01
06 11 16 00-0198 LF 1" x 6" Pine/Spruce/Fir Light Framing, Trim And Furring .....	2.59	1.11
06 11 16 00-0199 LF 1" x 8" Pine/Spruce/Fir Light Framing, Trim And Furring .....	2.87	1.22
06 11 16 00-0200 LF 1" x 10" Pine/Spruce/Fir Light Framing, Trim And Furring .....	3.17	1.35
06 11 16 00-0201 LF 2" x 2" Pine/Spruce/Fir Light Framing, Trim And Furring .....	2.61	1.11
06 11 16 00-0202 LF 2" x 4" Pine/Spruce/Fir Light Framing, Trim And Furring .....	2.91	1.22
06 11 16 00-0203 LF 2" x 6" Pine/Spruce/Fir Light Framing, Trim And Furring .....	3.38	1.35
06 11 16 00-0204 LF 2" x 8" Pine/Spruce/Fir Light Framing, Trim And Furring .....	3.95	1.48
06 11 16 00-0205 LF 2" x 10" Pine/Spruce/Fir Light Framing, Trim And Furring .....	4.63	1.63
<b>06 11 16 00-0206 Cedar Light Framing, Trim And Furring</b> <small>(06 11 16 00-0193)</small>		
06 11 16 00-0207 LF 1" x 1" Cedar Light Framing, Trim And Furring .....	1.82	0.84
06 11 16 00-0208 LF 1" x 2" Cedar Light Framing, Trim And Furring .....	2.14	0.92
06 11 16 00-0209 LF 1" x 4" Cedar Light Framing, Trim And Furring .....	2.77	1.01
06 11 16 00-0210 LF 1" x 6" Cedar Light Framing, Trim And Furring .....	3.36	1.11
06 11 16 00-0211 LF 1" x 8" Cedar Light Framing, Trim And Furring .....	4.87	1.22
06 11 16 00-0212 LF 1" x 10" Cedar Light Framing, Trim And Furring .....	5.72	1.35
06 11 16 00-0213 LF 2" x 2" Cedar Light Framing, Trim And Furring .....	2.90	1.11
06 11 16 00-0214 LF 2" x 4" Cedar Light Framing, Trim And Furring .....	3.34	1.22

06	<b>06 Wood, Plastics, and Composites</b>
	<b>06 10 Rough Carpentry</b>
	<b>06 11 Wood Framing</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**06 11 16 00-0215 Oak Light Framing, Trim And Furring** (06 11 16 00-0193)

06 11 16 00-0216	LF		1" x 1" Oak Light Framing, Trim And Furring .....	1.83	0.84
06 11 16 00-0217	LF		1" x 2" Oak Light Framing, Trim And Furring .....	2.16	0.92
06 11 16 00-0218	LF		1" x 4" Oak Light Framing, Trim And Furring .....	2.66	1.01
06 11 16 00-0219	LF		1" x 6" Oak Light Framing, Trim And Furring .....	3.19	1.11
06 11 16 00-0220	LF		1" x 8" Oak Light Framing, Trim And Furring .....	3.73	1.22
06 11 16 00-0221	LF		1" x 10" Oak Light Framing, Trim And Furring .....	4.29	1.35
06 11 16 00-0222	LF		2" x 2" Oak Light Framing, Trim And Furring .....	2.87	1.11
06 11 16 00-0223	LF		2" x 4" Oak Light Framing, Trim And Furring .....	3.73	1.22

**06 11 16 00-0224 Redwood Light Framing, Trim And Furring** (06 11 16 00-0193)

06 11 16 00-0225	LF		1" x 1" Redwood Light Framing, Trim And Furring.....	1.78	0.84
06 11 16 00-0226	LF		1" x 2" Redwood Light Framing, Trim And Furring.....	2.07	0.92
06 11 16 00-0227	LF		1" x 4" Redwood Light Framing, Trim And Furring.....	2.50	1.01
06 11 16 00-0228	LF		1" x 6" Redwood Light Framing, Trim And Furring.....	3.00	1.11
06 11 16 00-0229	LF		1" x 8" Redwood Light Framing, Trim And Furring.....	3.53	1.22
06 11 16 00-0230	LF		1" x 10" Redwood Light Framing, Trim And Furring.....	4.11	1.35
06 11 16 00-0231	LF		2" x 2" Redwood Light Framing, Trim And Furring.....	3.01	1.11
06 11 16 00-0232	LF		2" x 4" Redwood Light Framing, Trim And Furring.....	3.55	1.22

**06 11 16 00-0233 Poplar Light Framing, Trim And Furring** (06 11 16 00-0193)

06 11 16 00-0234	LF		1" x 1" Poplar Light Framing, Trim And Furring.....	2.05	0.84
06 11 16 00-0235	LF		1" x 2" Poplar Light Framing, Trim And Furring.....	2.49	0.92
06 11 16 00-0236	LF		1" x 4" Poplar Light Framing, Trim And Furring.....	3.10	1.01
06 11 16 00-0237	LF		1" x 6" Poplar Light Framing, Trim And Furring.....	3.92	1.11
06 11 16 00-0238	LF		1" x 8" Poplar Light Framing, Trim And Furring.....	4.54	1.22
06 11 16 00-0239	LF		1" x 10" Poplar Light Framing, Trim And Furring.....	5.92	1.35
06 11 16 00-0240	LF		1" x 12" Poplar Light Framing, Trim And Furring.....	6.38	1.35
06 11 16 00-0241	LF		2" x 2" Poplar Light Framing, Trim And Furring.....	5.07	1.11
06 11 16 00-0242	LF		2" x 4" Poplar Light Framing, Trim And Furring.....	5.67	1.22
06 11 16 00-0243	LF		2" x 6" Poplar Light Framing, Trim And Furring.....	7.52	1.35

**06 11 16 00-0244 Maple Light Framing, Trim And Furring** (06 11 16 00-0193)

06 11 16 00-0245	LF		1" x 4" Maple Light Framing, Trim And Furring .....	4.27	1.01
06 11 16 00-0246	LF		1" x 6" Maple Light Framing, Trim And Furring.....	5.73	1.11
06 11 16 00-0247	LF		1" x 8" Maple Light Framing, Trim And Furring .....	7.22	1.22

**06 11 16 00-0248 Platform Edging** (06 11 16)

Note: Includes bolting to concrete surface.

06 11 16 00-0249	LF		1" Wood Platform Edging, Including Bolts.....	19.14	6.49
06 11 16 00-0250	LF		2" Wood Platform Edging, Including Bolts.....	27.47	7.56

## 06 15 Wood Decking (06 10)

### 06 15 13 Wood Floor Decking (06 15)

**06 15 13 00-0001 Wood Deck Systems** (06 15 13)

Note: Includes the deck, joists, girders, posts (8' O.C.), pickets and railing.

**06 15 13 00-0002 Pressure Treated Wood Deck System** (06 15 13 00-0001)

**06 15 13 00-0003 2" x 8" Joists At 16" On Center, Pressure Treated Wood Deck System** (06 15 13 00-0002)

06 15 13 00-0004	SF		5/4" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System.....	38.22	6.14
06 15 13 00-0005	SF		5/4" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System.....	37.47	5.84
06 15 13 00-0006	SF		2" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System.....	39.95	6.30
06 15 13 00-0007	SF		2" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System.....	39.25	5.99

**06 15 13 00-0008 2" x 10" Joists At 16" On Center, Pressure Treated Wood Deck System** (06 15 13 00-0002)

06 15 13 00-0009	SF		5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System .....	39.74	6.30
06 15 13 00-0010	SF		5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System .....	38.94	5.98
06 15 13 00-0011	SF		2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System .....	41.49	6.47
06 15 13 00-0012	SF		2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 16" On Center .....	40.79	6.13

**06 15 13 00-0013 2" x 10" Joists At 24" On Center, Pressure Treated Wood Deck System** (06 15 13 00-0002)

06 15 13 00-0014	SF		5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System .....	38.22	6.14
06 15 13 00-0015	SF		5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System .....	37.47	5.84
06 15 13 00-0016	SF		2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System .....	39.95	6.30
06 15 13 00-0017	SF		2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System .....	39.25	5.99





<b>Wood, Plastics, and Composites</b>	<b>06</b>	<b>06</b>
Rough Carpentry	06 10	
Wood Decking	06 15	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>06 15 13 00-0018</b> Redwood With Pressure Treated Joists, Wood Deck System <small>(06 15 13 00-0001)</small>		
<b>06 15 13 00-0019</b> 2" x 8" Joists At 16" On Center, Redwood With Pressure Treated Joists, Wood Deck System <small>(06 15 13 00-0018)</small>		
06 15 13 00-0020 SF 5/4" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System .....	42.57	6.14
06 15 13 00-0021 SF 5/4" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System .....	42.02	6.09
06 15 13 00-0022 SF 2" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System .....	45.40	6.30
06 15 13 00-0023 SF 2" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists 16" On Center, Wood Deck System .....	44.38	5.99
<b>06 15 13 00-0024</b> 2" x 10" Joists At 16" On Center, Redwood With Pressure Treated Joists, Wood Deck System <small>(06 15 13 00-0018)</small>		
06 15 13 00-0025 SF 5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System .....	46.56	6.30
06 15 13 00-0026 SF 5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System .....	45.97	5.98
06 15 13 00-0027 SF 2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System .....	49.65	6.47
06 15 13 00-0028 SF 2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 16" On Center, Wood Deck System .....	48.67	6.13
<b>06 15 13 00-0029</b> 2" x 10" Joists At 24" On Center, Redwood With Pressure Treated Joists, Wood Deck System <small>(06 15 13 00-0018)</small>		
06 15 13 00-0030 SF 5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System .....	44.32	6.14
06 15 13 00-0031 SF 5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System .....	43.76	5.84
06 15 13 00-0032 SF 2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System .....	47.25	6.30
06 15 13 00-0033 SF 2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists 24" On Center, Wood Deck System .....	47.63	5.99
<b>06 15 13 00-0034</b> Wood Ramp Systems <small>(06 15 13)</small>		
Note: Includes the decking, joists, girders, posts at corners and along ramp, pickets and railing.		
<b>06 15 13 00-0035</b> Pressure Treated Wood Ramp System <small>(06 15 13 00-0034)</small>		
<b>06 15 13 00-0036</b> 2" x 6" Joists, Pressure Treated Wood Ramp System <small>(06 15 13 00-0035)</small>		
06 15 13 00-0037 SF 5/4" x 4" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System .....	43.08	5.99
06 15 13 00-0038 SF 5/4" x 6" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System .....	42.00	5.69
06 15 13 00-0039 SF 2" x 4" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System .....	44.88	6.14
06 15 13 00-0040 SF 2" x 6" Pressure Treated Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System .....	43.87	5.84
<b>06 15 13 00-0041</b> 2" x 8" Joists, Pressure Treated Wood Ramp System <small>(06 15 13 00-0035)</small>		
06 15 13 00-0042 SF 5/4" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System .....	44.62	6.14
06 15 13 00-0043 SF 5/4" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System .....	43.56	5.84
06 15 13 00-0044 SF 2" x 4" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System .....	46.53	6.30
06 15 13 00-0045 SF 2" x 6" Pressure Treated Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System .....	45.50	5.99
<b>06 15 13 00-0046</b> 2" x 10" Joists, Pressure Treated Wood Ramp System <small>(06 15 13 00-0035)</small>		
06 15 13 00-0047 SF 5/4" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System .....	46.27	6.29
06 15 13 00-0048 SF 5/4" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System .....	45.19	5.98
06 15 13 00-0049 SF 2" x 4" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System .....	48.23	6.47
06 15 13 00-0050 SF 2" x 6" Pressure Treated Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System .....	47.19	6.13
<b>06 15 13 00-0051</b> Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0034)</small>		
<b>06 15 13 00-0052</b> 2" x 6" Joists, Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0051)</small>		
06 15 13 00-0053 SF 5/4" x 4" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System.....	47.16	5.99
06 15 13 00-0054 SF 5/4" x 6" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System.....	46.28	5.69
06 15 13 00-0055 SF 2" x 4" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System.....	50.01	6.14
06 15 13 00-0056 SF 2" x 6" Redwood Decking, 2" x 6" Pressure Treated Joists, Wood Ramp System.....	48.69	5.84
<b>06 15 13 00-0057</b> 2" x 8" Joists, Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0051)</small>		
06 15 13 00-0058 SF 5/4" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System.....	48.97	6.14
06 15 13 00-0059 SF 5/4" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System.....	48.11	5.84
06 15 13 00-0060 SF 2" x 4" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System.....	51.98	6.30
06 15 13 00-0061 SF 2" x 6" Redwood Decking, 2" x 8" Pressure Treated Joists, Wood Ramp System.....	50.63	5.99
<b>06 15 13 00-0062</b> 2" x 10" Joists, Redwood With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0051)</small>		
06 15 13 00-0063 SF 5/4" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System.....	53.12	6.29
06 15 13 00-0064 SF 5/4" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System.....	52.22	5.98
06 15 13 00-0065 SF 2" x 4" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System.....	56.40	6.47
06 15 13 00-0066 SF 2" x 6" Redwood Decking, 2" x 10" Pressure Treated Joists, Wood Ramp System.....	55.97	6.13
<b>06 15 13 00-0067</b> Cedar With Pressure Treated Joists, Wood Ramp System <small>(06 15 13 00-0034)</small>		





MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 15 13 00-0133	RSR 5' Wide, 5/4" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System .....	176.50	17.07
06 15 13 00-0134	RSR 5' Wide, 5/4" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System .....	175.18	16.22
06 15 13 00-0135	RSR 5' Wide, 2" x 4" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System .....	183.41	17.51
06 15 13 00-0136	RSR 5' Wide, 2" x 6" Redwood Decking With 2" x 10" Pressure Treated Joists, Wood Stair System .....	182.14	16.63
<b>06 15 13 00-0137      2" x 12" Joists, Redwood With Pressure Treated Joists, Wood Stair System</b>			
	(06 15 13 00-0119)		
06 15 13 00-0138	RSR 3' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	144.65	15.12
06 15 13 00-0139	RSR 3' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	143.36	14.36
06 15 13 00-0140	RSR 3' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	149.94	15.50
06 15 13 00-0141	RSR 3' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	148.88	14.73
06 15 13 00-0142	RSR 3'-6" Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	151.88	15.87
06 15 13 00-0143	RSR 3'-6" Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	150.53	15.08
06 15 13 00-0144	RSR 3'-6" Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	157.44	16.28
06 15 13 00-0145	RSR 3'-6" Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	156.33	15.46
06 15 13 00-0146	RSR 4' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	159.15	16.67
06 15 13 00-0147	RSR 4' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	157.70	15.83
06 15 13 00-0148	RSR 4' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	164.96	17.09
06 15 13 00-0149	RSR 4' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	163.76	16.24
06 15 13 00-0150	RSR 5' Wide, 5/4" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	170.72	17.51
06 15 13 00-0151	RSR 5' Wide, 5/4" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	169.34	16.63
06 15 13 00-0152	RSR 5' Wide, 2" x 4" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	176.99	17.94
06 15 13 00-0153	RSR 5' Wide, 2" x 6" Redwood Decking With 2" x 12" Pressure Treated Joists, Wood Stair System .....	175.89	17.05
<b>06 15 13 00-0154      Wood Deck And Ramp Systems Repairs</b> (06 15 13)			
	Note: Includes removal of material and screws. Excludes anchors and bolts.		
<b>06 15 13 00-0155      Deck Joist Or Girt</b> (06 15 13 00-0154)			
	See CSI section 06 11 16 00-0012 for treated wood joist replacement.		
<b>06 15 13 00-0156      Deck Boards</b> (06 15 13 00-0154)			
06 15 13 00-0157	LF 5/4" x 4" Round Edge Pressure Treated Deck Boards .....	2.26	0.79
06 15 13 00-0158	LF 5/4" x 6" Round Edge Pressure Treated Deck Boards .....	2.47	0.93
06 15 13 00-0159	LF 2" x 4" Round Edge Pressure Treated Deck Boards .....	2.34	0.93
06 15 13 00-0160	LF 2" x 6" Round Edge Pressure Treated Deck Boards .....	3.16	1.07
06 15 13 00-0161	LF 2" x 8" Round Edge Pressure Treated Deck Boards .....	4.10	1.29
06 15 13 00-0162	LF 2" x 10" Round Edge Pressure Treated Deck Boards .....	5.03	1.57
06 15 13 00-0163	LF 2" x 12" Round Edge Pressure Treated Deck Boards .....	6.25	1.86
06 15 13 00-0164	LF 2" x 4" Round Edge Cedar Deck Boards .....	2.29	0.93
06 15 13 00-0165	LF 2" x 6" Round Edge Cedar Deck Boards .....	2.94	1.07
06 15 13 00-0166	LF 2" x 4" Round Edge Redwood Deck Boards .....	2.50	0.93
06 15 13 00-0167	LF 2" x 6" Round Edge Redwood Deck Boards .....	3.25	1.07
<b>06 15 13 00-0168      Deck Posts</b> (06 15 13 00-0154)			
	See CSI section 06 11 16 00-0103 for treated wood post replacement.		
<b>06 15 13 00-0169      Deck Railing And Pickets</b> (06 15 13 00-0154)			
06 15 13 00-0170	LF 2" x 4" Pressure Treated Deck Railing .....	2.34	0.93
06 15 13 00-0171	LF 2" x 2" Pressure Treated Deck Railing Picket .....	1.44	0.72
06 15 13 00-0172	LF 2" x 4" Cedar Deck Railing .....	2.29	0.93
06 15 13 00-0173	LF 2" x 2" Cedar Deck Railing Picket .....	1.72	0.72
06 15 13 00-0174	LF 2" x 4" Redwood Deck Railing .....	2.50	0.93
06 15 13 00-0175	LF 2" x 2" Redwood Deck Railing Picket .....	1.88	0.72
<b>06 16      Sheathing</b> (06 10)			
<b>06 16 23      Subflooring</b> (06 16)			
<b>06 16 23 00-0001      Board Type Subflooring</b> (06 16 23)			
06 16 23 00-0002	SF 1" x 8" Regular Surface Board Type Subfloor .....	2.88	0.82
	Note: 4 Sides Laid In A Regular Pattern.		
	For Water Resistant Coating Or Treatment, Add	0.06	
	For Foil Backing, Add	0.10	
	For Tongue And Groove, Add	0.07	
06 16 23 00-0003	SF 1" x 8" Diagonal Surface Board Type Subfloor .....	3.22	1.02
	Note: 4 Sides Laid In A Diagonal Pattern.		
	For Water Resistant Coating Or Treatment, Add	0.06	
	For Foil Backing, Add	0.11	
	For Tongue And Groove, Add	0.07	
06 16 23 00-0004	SF 1" x 10" Regular Surface Board Type Subfloor .....	2.75	0.72
	Note: 4 sides laid in a regular pattern.		
	For Water Resistant Coating Or Treatment, Add	0.06	
	For Foil Backing, Add	0.11	
	For Tongue And Groove, Add	0.08	
06 16 23 00-0005	SF 1" x 10" Diagonal Surface Board Type Subfloor .....	2.99	0.82
	Note: 4 sides laid in a diagonal pattern.		
	For Water Resistant Coating Or Treatment, Add	0.06	
	For Foil Backing, Add	0.11	
	For Tongue And Groove, Add	0.08	

**06 Wood, Plastics, and Composites****06 10 Rough Carpentry****06 16 Sheathing**
 MINOR  
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION  
 UNIT COST UNIT COST
**06 16 33 Wood Board Sheathing** (06 16)06 16 33 00-0001 Plywood (06 16 33)06 16 33 00-0002 Roof Decking (06 16 33 00-0001)

06 16 33 00-0003	SF	3/8" Thick CDX Plywood Roof Decking.....	1.76	0.51
		Note: Applied to wood rafters.		
		For Shear Wall Construction, Add	0.24	
		For Exterior CC Grade Plywood, Add	0.08	
		For Application To Metal Studs, Joists, Or Rafters, Add	0.24	
		For ACQ Preservative Treatment, Add	0.27	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	1.80	
		For Fire Retardant Treatment, Add	0.44	
		For >1,696 To 3,200, Deduct	-0.03	
		For >3,200 To 6,400, Deduct	-0.05	
		For >6,400 To 12,800, Deduct	-0.09	
		For >12,800, Deduct	-0.13	
06 16 33 00-0004	SF	1/2" Thick CDX Plywood Roof Decking.....	2.00	0.62
		Note: Applied to wood rafters.		
		For Shear Wall Construction, Add	0.26	
		For Exterior CC Grade Plywood, Add	0.10	
		For Application To Metal Studs, Joists, Or Rafters, Add	0.26	
		For ACQ Preservative Treatment, Add	0.33	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	1.98	
		For Fire Retardant Treatment, Add	0.54	
		For >1,696 To 3,200, Deduct	-0.04	
		For >3,200 To 6,400, Deduct	-0.06	
		For >6,400 To 12,800, Deduct	-0.11	
		For >12,800, Deduct	-0.15	
06 16 33 00-0005	SF	5/8" Thick CDX Plywood Roof Decking.....	2.24	0.62
		Note: Applied to wood rafters.		
		For Shear Wall Construction, Add	0.28	
		For Exterior CC Grade Plywood, Add	0.12	
		For Application To Metal Studs, Joists, Or Rafters, Add	0.28	
		For ACQ Preservative Treatment, Add	0.40	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.12	
		For Fire Retardant Treatment, Add	0.66	
		For >1,696 To 3,200, Deduct	-0.05	
		For >3,200 To 6,400, Deduct	-0.07	
		For >6,400 To 12,800, Deduct	-0.13	
		For >12,800, Deduct	-0.17	
		For Tongue And Groove, Add	0.06	
06 16 33 00-0006	SF	3/4" Thick CDX Plywood Roof Decking.....	2.49	0.72
		Note: Applied to wood rafters.		
		For Shear Wall Construction, Add	0.31	
		For Exterior CC Grade Plywood, Add	0.14	
		For Application To Metal Studs, Joists, Or Rafters, Add	0.31	
		For ACQ Preservative Treatment, Add	0.46	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.30	
		For Fire Retardant Treatment, Add	0.76	
		For >1,696 To 3,200, Deduct	-0.06	
		For >3,200 To 6,400, Deduct	-0.09	
		For >6,400 To 12,800, Deduct	-0.14	
		For >12,800, Deduct	-0.19	
		For Tongue And Groove, Add	0.07	
06 16 33 00-0007	SF	1" Thick CDX Plywood Roof Decking.....	2.95	0.82
		Note: Applied to wood rafters.		
		For Shear Wall Construction, Add	0.33	
		For Exterior CC Grade Plywood, Add	0.19	
		For Application To Metal Studs, Joists, Or Rafters, Add	0.33	
		For ACQ Preservative Treatment, Add	0.62	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.49	
		For Fire Retardant Treatment, Add	1.02	
		For >1,696 To 3,200, Deduct	-0.08	
		For >3,200 To 6,400, Deduct	-0.12	
		For >6,400 To 12,800, Deduct	-0.18	
		For >12,800, Deduct	-0.24	
		For Tongue And Groove, Add	0.09	

06 16 33 00-0008 Wall Sheathing (06 16 33 00-0001)

06 16 33 00-0009	SF	1/4" Interior BC Plywood Wall Sheathing.....	2.08	0.72
		Note: Applied to wall studs.		
		For Shear Wall Construction, Add	0.31	
		For Exterior CC Grade Plywood, Add	0.08	
		For Application To Metal Studs, Joists, Or Rafters, Add	0.31	
		For Ceiling Installation, Add	0.15	
		For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.30	
		For Fire Retardant Treatment, Add	0.43	
		For >1,696 To 3,200, Deduct	-0.03	
		For >3,200 To 6,400, Deduct	-0.05	
		For >6,400 To 12,800, Deduct	-0.10	
		For >12,800, Deduct	-0.14	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0010	SF		5/16" Interior BC Plywood Wall Sheathing.....	2.11	0.72
			Note: Applied to wall studs.		
			<i>For Shear Wall Construction, Add</i>	0.31	
			<i>For Exterior CC Grade Plywood, Add</i>	0.09	
			<i>For Application To Metal Studs, Joists, Or Rafters, Add</i>	0.31	
			<i>For Ceiling Installation, Add</i>	0.15	
			<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add</i>	2.30	
			<i>For Fire Retardant Treatment, Add</i>	0.46	
			<i>For &gt;1,696 To 3,200, Deduct</i>	-0.03	
			<i>For &gt;3,200 To 6,400, Deduct</i>	-0.05	
			<i>For &gt;6,400 To 12,800, Deduct</i>	-0.10	
			<i>For &gt;12,800, Deduct</i>	-0.15	
06 16 33 00-0011	SF		3/8" Interior BC Plywood Wall Sheathing.....	2.16	0.82
			Note: Applied to wall studs.		
			<i>For Shear Wall Construction, Add</i>	0.31	
			<i>For Exterior CC Grade Plywood, Add</i>	0.09	
			<i>For Application To Metal Studs, Joists, Or Rafters, Add</i>	0.31	
			<i>For Ceiling Installation, Add</i>	0.15	
			<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add</i>	2.30	
			<i>For Fire Retardant Treatment, Add</i>	0.50	
			<i>For &gt;1,696 To 3,200, Deduct</i>	-0.04	
			<i>For &gt;3,200 To 6,400, Deduct</i>	-0.06	
			<i>For &gt;6,400 To 12,800, Deduct</i>	-0.11	
			<i>For &gt;12,800, Deduct</i>	-0.15	
06 16 33 00-0012	SF		1/2" Interior BC Plywood Wall Sheathing.....	2.42	0.82
			Note: Applied to wall studs.		
			<i>For Shear Wall Construction, Add</i>	0.33	
			<i>For Exterior CC Grade Plywood, Add</i>	0.12	
			<i>For Application To Metal Studs, Joists, Or Rafters, Add</i>	0.33	
			<i>For Ceiling Installation, Add</i>	0.16	
			<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add</i>	2.45	
			<i>For Fire Retardant Treatment, Add</i>	0.62	
			<i>For &gt;1,696 To 3,200, Deduct</i>	-0.05	
			<i>For &gt;3,200 To 6,400, Deduct</i>	-0.07	
			<i>For &gt;6,400 To 12,800, Deduct</i>	-0.13	
			<i>For &gt;12,800, Deduct</i>	-0.18	
06 16 33 00-0013	SF		5/8" Interior BC Plywood Wall Sheathing.....	2.69	0.92
			Note: Applied to wall studs.		
			<i>For Shear Wall Construction, Add</i>	0.35	
			<i>For Exterior CC Grade Plywood, Add</i>	0.14	
			<i>For Application To Metal Studs, Joists, Or Rafters, Add</i>	0.35	
			<i>For Ceiling Installation, Add</i>	0.18	
			<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add</i>	2.63	
			<i>For Fire Retardant Treatment, Add</i>	0.74	
			<i>For &gt;1,696 To 3,200, Deduct</i>	-0.06	
			<i>For &gt;3,200 To 6,400, Deduct</i>	-0.08	
			<i>For &gt;6,400 To 12,800, Deduct</i>	-0.15	
			<i>For &gt;12,800, Deduct</i>	-0.20	
06 16 33 00-0014	SF		3/4" Interior BC Plywood Wall Sheathing.....	2.96	1.02
			Note: Applied to wall studs.		
			<i>For Shear Wall Construction, Add</i>	0.38	
			<i>For Exterior CC Grade Plywood, Add</i>	0.16	
			<i>For Application To Metal Studs, Joists, Or Rafters, Add</i>	0.38	
			<i>For Ceiling Installation, Add</i>	0.19	
			<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add</i>	2.82	
			<i>For Fire Retardant Treatment, Add</i>	0.85	
			<i>For &gt;1,696 To 3,200, Deduct</i>	-0.06	
			<i>For &gt;3,200 To 6,400, Deduct</i>	-0.10	
			<i>For &gt;6,400 To 12,800, Deduct</i>	-0.17	
			<i>For &gt;12,800, Deduct</i>	-0.22	
06 16 33 00-0015			<b>Floor Decking</b> (06 16 33 00-0001)		
			Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0016	SF		5/16" CD Grade Plywood Floor Decking.....	1.55	0.62
			Note: Applied to floor or joists.		
			<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add</i>	1.71	
			<i>For Fire Retardant Treatment, Add</i>	0.32	
			<i>For &gt;1,696 To 3,200, Deduct</i>	-0.02	
			<i>For &gt;3,200 To 6,400, Deduct</i>	-0.04	
			<i>For &gt;6,400 To 12,800, Deduct</i>	-0.07	
			<i>For &gt;12,800, Deduct</i>	-0.11	
			<i>For ACQ Preservative Treatment, Add</i>	0.20	
			<i>For Fir Plywood, Add</i>	0.08	
			<i>For BC Grade Plywood, Add</i>	0.06	
			<i>For Exterior Glue, Add</i>	0.04	
			<i>For Marine Grade, Add</i>	0.32	

**06 Wood, Plastics, and Composites**

**06 10 Rough Carpentry**

**06 16 Sheathing**



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
06 16 33 00-0017	SF 3/8" CD Grade Plywood Floor Decking.....	1.66	0.62
	Note: Applied to floor or joists.		
	For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	1.80	
	For Fire Retardant Treatment, Add	0.36	
	For >1,696 To 3,200, Deduct	-0.03	
	For >3,200 To 6,400, Deduct	-0.04	
	For >6,400 To 12,800, Deduct	-0.08	
	For >12,800, Deduct	-0.12	
	For ACQ Preservative Treatment, Add	0.22	
	For Fir Plywood, Add	0.09	
	For BC Grade Plywood, Add	0.07	
	For Exterior Glue, Add	0.04	
	For Marine Grade, Add	0.36	
06 16 33 00-0018	SF 1/2" CD Grade Plywood Floor Decking.....	1.88	0.62
	Note: Applied to floor or joists.		
	For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	1.92	
	For Fire Retardant Treatment, Add	0.47	
	For >1,696 To 3,200, Deduct	-0.04	
	For >3,200 To 6,400, Deduct	-0.05	
	For >6,400 To 12,800, Deduct	-0.10	
	For >12,800, Deduct	-0.14	
	For ACQ Preservative Treatment, Add	0.29	
	For Fir Plywood, Add	0.11	
	For BC Grade Plywood, Add	0.09	
	For Exterior Glue, Add	0.06	
	For Marine Grade, Add	0.47	
06 16 33 00-0019	SF 5/8" CD Grade Plywood Floor Decking.....	2.12	0.62
	Note: Applied to floor or joists.		
	For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.10	
	For Fire Retardant Treatment, Add	0.57	
	For >1,696 To 3,200, Deduct	-0.04	
	For >3,200 To 6,400, Deduct	-0.06	
	For >6,400 To 12,800, Deduct	-0.11	
	For >12,800, Deduct	-0.16	
	For ACQ Preservative Treatment, Add	0.35	
	For Fir Plywood, Add	0.13	
	For BC Grade Plywood, Add	0.11	
	For Exterior Glue, Add	0.07	
	For Marine Grade, Add	0.56	
06 16 33 00-0020	SF 3/4" CD Grade Plywood Floor Decking.....	2.39	0.62
	Note: Applied to floor or joists.		
	For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.21	
	For Fire Retardant Treatment, Add	0.73	
	For >1,696 To 3,200, Deduct	-0.06	
	For >3,200 To 6,400, Deduct	-0.08	
	For >6,400 To 12,800, Deduct	-0.14	
	For >12,800, Deduct	-0.18	
	For ACQ Preservative Treatment, Add	0.44	
	For Fir Plywood, Add	0.17	
	For BC Grade Plywood, Add	0.14	
	For Exterior Glue, Add	0.09	
	For Marine Grade, Add	0.72	
06 16 33 00-0021	SF 1-1/8" CD Grade Plywood Floor Decking.....	3.50	0.92
	Note: Applied to floor or joists.		
	For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.64	
	For Fire Retardant Treatment, Add	1.37	
	For >1,696 To 3,200, Deduct	-0.10	
	For >3,200 To 6,400, Deduct	-0.16	
	For >6,400 To 12,800, Deduct	-0.24	
	For >12,800, Deduct	-0.30	
	For ACQ Preservative Treatment, Add	0.84	
	For Fir Plywood, Add	0.32	
	For BC Grade Plywood, Add	0.26	
	For Exterior Glue, Add	0.16	
	For Marine Grade, Add	1.36	
06 16 33 00-0022	SF 1/2" AC Fir Plywood Floor Decking.....	2.25	0.62
	Note: Applied to floor or joists.		
	For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	1.92	
	For Fire Retardant Treatment, Add	0.77	
	For >1,696 To 3,200, Deduct	-0.06	
	For >3,200 To 6,400, Deduct	-0.09	
	For >6,400 To 12,800, Deduct	-0.14	
	For >12,800, Deduct	-0.18	
	For ACQ Preservative Treatment, Add	0.47	
	For Exterior Glue, Add	0.09	
	For Marine Grade, Add	0.76	
	For Tongue And Groove, Add	0.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0023 SF 5/8" AC Fir Plywood Floor Decking.....	2.52	0.62
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.10	
For Fire Retardant Treatment, Add	0.88	
For >1,696 To 3,200, Deduct	-0.07	
For >3,200 To 6,400, Deduct	-0.10	
For >6,400 To 12,800, Deduct	-0.16	
For >12,800, Deduct	-0.20	
For ACQ Preservative Treatment, Add	0.54	
For Exterior Glue, Add	0.10	
For Marine Grade, Add	0.88	
For Tongue And Groove, Add	0.08	
06 16 33 00-0024 SF 3/4" AC Fir Plywood Floor Decking.....	2.69	0.62
Note: Applied to floor or joists.		
For Selective Replacement <400 (Includes Removal Of Damaged Plywood And Fitting New Plywood To Size), Add	2.22	
For Fire Retardant Treatment, Add	0.96	
For >1,696 To 3,200, Deduct	-0.07	
For >3,200 To 6,400, Deduct	-0.11	
For >6,400 To 12,800, Deduct	-0.17	
For >12,800, Deduct	-0.22	
For ACQ Preservative Treatment, Add	0.58	
For Exterior Glue, Add	0.11	
For Marine Grade, Add	0.95	
For Tongue And Groove, Add	0.08	
<b>06 16 33 00-0025 Underlayment Grade Subfloor</b> <small>(06 16 33 00-0001)</small>		
Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0026 SF 1/4" Thick Plywood Underlayment BC Grade Subfloor.....	1.66	0.62
For Fire Retardant Treatment, Add	0.39	
For >1,696 To 3,200, Deduct	-0.03	
For >3,200 To 6,400, Deduct	-0.04	
For >6,400 To 12,800, Deduct	-0.07	
For >12,800, Deduct	-0.12	
06 16 33 00-0027 SF 3/8" Thick Plywood Underlayment BC Grade Subfloor.....	1.78	0.62
For Fire Retardant Treatment, Add	0.42	
For >1,696 To 3,200, Deduct	-0.03	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.08	
For >12,800, Deduct	-0.13	
06 16 33 00-0028 SF 1/2" Thick Plywood Underlayment BC Grade Subfloor.....	1.85	0.72
For Fire Retardant Treatment, Add	0.46	
For >1,696 To 3,200, Deduct	-0.03	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.08	
For >12,800, Deduct	-0.13	
06 16 33 00-0029 SF 5/8" Thick Plywood Underlayment BC Grade Subfloor.....	2.10	0.72
For Fire Retardant Treatment, Add	0.55	
For >1,696 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.06	
For >6,400 To 12,800, Deduct	-0.10	
For >12,800, Deduct	-0.15	
For Tongue And Groove, Add	0.05	
06 16 33 00-0030 SF 3/4" Thick Plywood Underlayment BC Grade Subfloor.....	2.24	0.72
For Fire Retardant Treatment, Add	0.66	
For >1,696 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.07	
For >6,400 To 12,800, Deduct	-0.11	
For >12,800, Deduct	-0.17	
For Tongue And Groove, Add	0.06	
06 16 33 00-0031 SF 1-1/8" Thick Plywood Underlayment BC Grade Subfloor.....	2.84	0.82
For Fire Retardant Treatment, Add	1.00	
For >1,696 To 3,200, Deduct	-0.08	
For >3,200 To 6,400, Deduct	-0.11	
For >6,400 To 12,800, Deduct	-0.15	
For >12,800, Deduct	-0.23	
For Tongue And Groove, Add	0.09	
06 16 33 00-0032 SF 3/8" Thick Plywood CDX Grade Subfloor.....	1.90	0.62
For Fire Retardant Treatment, Add	0.51	
For >1,696 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.06	
For >6,400 To 12,800, Deduct	-0.09	
For >12,800, Deduct	-0.14	
06 16 33 00-0033 SF 5/8" Thick Plywood CDX Grade Subfloor.....	2.38	0.72
For Fire Retardant Treatment, Add	0.77	
For >1,696 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.09	
For >6,400 To 12,800, Deduct	-0.12	
For >12,800, Deduct	-0.19	
<b>06 16 33 00-0034 Oriented Strand Board</b> <small>(06 16 33)</small>		
<b>06 16 33 00-0035 On Roof</b> <small>(06 16 33 00-0034)</small>		

**06 Wood, Plastics, and Composites****06 10 Rough Carpentry****06 16 Sheathing**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
06 16 33 00-0036	SF	3/8" Thick Structural Oriented Strand Board On Roof.....		1.63	0.62
		<i>For &gt;1,408 To 3,200, Deduct</i>		-0.03	
		<i>For &gt;3,200 To 6,400, Deduct</i>		-0.04	
		<i>For &gt;6,400 To 12,800, Deduct</i>		-0.08	
		<i>For &gt;12,800, Deduct</i>		-0.11	
		<i>For Fire Retardant Treatment, Add</i>		0.34	
		<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>		1.80	
06 16 33 00-0037	SF	1/2" Thick Structural Oriented Strand Board On Roof.....		1.82	0.62
		<i>For &gt;1,408 To 3,200, Deduct</i>		-0.03	
		<i>For &gt;3,200 To 6,400, Deduct</i>		-0.05	
		<i>For &gt;6,400 To 12,800, Deduct</i>		-0.09	
		<i>For &gt;12,800, Deduct</i>		-0.13	
		<i>For Fire Retardant Treatment, Add</i>		0.40	
		<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>		1.98	
06 16 33 00-0038	SF	5/8" Thick Structural Oriented Strand Board On Roof.....		2.14	0.72
		<i>For &gt;1,408 To 3,200, Deduct</i>		-0.04	
		<i>For &gt;3,200 To 6,400, Deduct</i>		-0.07	
		<i>For &gt;6,400 To 12,800, Deduct</i>		-0.12	
		<i>For &gt;12,800, Deduct</i>		-0.16	
		<i>For Fire Retardant Treatment, Add</i>		0.58	
		<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>		2.12	
06 16 33 00-0039	SF	3/4" Thick Structural Oriented Strand Board On Roof.....		2.50	0.72
		<i>For &gt;1,408 To 3,200, Deduct</i>		-0.06	
		<i>For &gt;3,200 To 6,400, Deduct</i>		-0.09	
		<i>For &gt;6,400 To 12,800, Deduct</i>		-0.14	
		<i>For &gt;12,800, Deduct</i>		-0.19	
		<i>For Fire Retardant Treatment, Add</i>		0.77	
		<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>		2.30	
<b>06 16 33 00-0040</b>		<b>On Walls</b> (06 16 33 00-0034)			
06 16 33 00-0041	SF	3/8" Thick Structural Oriented Strand Board On Walls.....		1.96	0.72
		<i>For &gt;1,408 To 3,200, Deduct</i>		-0.03	
		<i>For &gt;3,200 To 6,400, Deduct</i>		-0.04	
		<i>For &gt;6,400 To 12,800, Deduct</i>		-0.09	
		<i>For &gt;12,800, Deduct</i>		-0.13	
		<i>For Fire Retardant Treatment, Add</i>		0.34	
		<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>		2.30	
06 16 33 00-0042	SF	1/2" Thick Structural Oriented Strand Board On Walls.....		2.13	0.82
		<i>For &gt;1,408 To 3,200, Deduct</i>		-0.03	
		<i>For &gt;3,200 To 6,400, Deduct</i>		-0.05	
		<i>For &gt;6,400 To 12,800, Deduct</i>		-0.10	
		<i>For &gt;12,800, Deduct</i>		-0.14	
		<i>For Fire Retardant Treatment, Add</i>		0.40	
		<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>		2.45	
06 16 33 00-0043	SF	5/8" Thick Structural Oriented Strand Board On Walls.....		2.48	0.92
		<i>For &gt;1,408 To 3,200, Deduct</i>		-0.04	
		<i>For &gt;3,200 To 6,400, Deduct</i>		-0.07	
		<i>For &gt;6,400 To 12,800, Deduct</i>		-0.12	
		<i>For &gt;12,800, Deduct</i>		-0.18	
		<i>For Fire Retardant Treatment, Add</i>		0.58	
		<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>		2.63	
06 16 33 00-0044	SF	3/4" Thick Structural Oriented Strand Board On Walls.....		2.85	0.92
		<i>For &gt;1,408 To 3,200, Deduct</i>		-0.06	
		<i>For &gt;3,200 To 6,400, Deduct</i>		-0.09	
		<i>For &gt;6,400 To 12,800, Deduct</i>		-0.15	
		<i>For &gt;12,800, Deduct</i>		-0.21	
		<i>For Fire Retardant Treatment, Add</i>		0.77	
		<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>		2.82	
<b>06 16 33 00-0045</b>		<b>On Floors</b> (06 16 33 00-0034)			
		Note: Includes patching of seams and all fastener holes where necessary.			
06 16 33 00-0046	SF	3/8" Thick Structural Oriented Strand Board On Floors.....		1.65	0.62
		<i>For &gt;1,408 To 3,200, Deduct</i>		-0.03	
		<i>For &gt;3,200 To 6,400, Deduct</i>		-0.04	
		<i>For &gt;6,400 To 12,800, Deduct</i>		-0.08	
		<i>For &gt;12,800, Deduct</i>		-0.11	
		<i>For Fire Retardant Treatment, Add</i>		0.34	
		<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>		1.83	
06 16 33 00-0047	SF	1/2" Thick Structural Oriented Strand Board On Floors.....		1.97	0.72
		<i>For &gt;1,408 To 3,200, Deduct</i>		-0.03	
		<i>For &gt;3,200 To 6,400, Deduct</i>		-0.05	
		<i>For &gt;6,400 To 12,800, Deduct</i>		-0.09	
		<i>For &gt;12,800, Deduct</i>		-0.13	
		<i>For Fire Retardant Treatment, Add</i>		0.40	
		<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>		2.21	
06 16 33 00-0048	SF	5/8" Thick Structural Oriented Strand Board On Floors.....		2.33	0.82
		<i>For &gt;1,408 To 3,200, Deduct</i>		-0.04	
		<i>For &gt;3,200 To 6,400, Deduct</i>		-0.07	
		<i>For &gt;6,400 To 12,800, Deduct</i>		-0.12	
		<i>For &gt;12,800, Deduct</i>		-0.17	
		<i>For Fire Retardant Treatment, Add</i>		0.58	
		<i>For Selective Replacement &lt;400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add</i>		2.40	





<b>Wood, Plastics, and Composites</b>	<b>06</b>	<b>06</b>
Rough Carpentry	06 10	
Sheathing	06 16	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
06 16 33 00-0049 SF 3/4" Thick Structural Oriented Strand Board On Floors .....	2.72	0.92
For >1,408 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.09	
For >6,400 To 12,800, Deduct	-0.15	
For >12,800, Deduct	-0.20	
For Fire Retardant Treatment, Add	0.77	
For Selective Replacement <400 (Includes Removal Of Damaged OSB And Fitting New OSB To Size), Add	2.63	
<b>06 16 33 00-0050 Particle Board</b> <small>(06 16 33)</small>		
<b>06 16 33 00-0051 Particle Board Floor Decking</b> <small>(06 16 33 00-0050)</small>		
Note: Includes patching of seams and all fastener holes where necessary.		
06 16 33 00-0052 SF 3/8" Particle Board Floor Decking .....	1.70	0.51
Note: Applied to plywood subfloor.		
For Fire Retardant Treatment Add	0.40	
For >1,536 To 3,200, Deduct	-0.03	
For >3,200 To 6,400, Deduct	-0.05	
For >6,400 To 12,800, Deduct	-0.09	
For >12,800, Deduct	-0.12	
For Tongue And Groove, Add	0.04	
06 16 33 00-0053 SF 1/2" Particle Board Floor Decking .....	1.96	0.51
Note: Applied to plywood subfloor.		
For Fire Retardant Treatment Add	0.54	
For >1,536 To 3,200, Deduct	-0.04	
For >3,200 To 6,400, Deduct	-0.06	
For >6,400 To 12,800, Deduct	-0.11	
For >12,800, Deduct	-0.15	
For Tongue And Groove, Add	0.05	
06 16 33 00-0054 SF 5/8" Particle Board Floor Decking .....	2.21	0.62
Note: Applied to plywood subfloor.		
For Fire Retardant Treatment Add	0.68	
For >1,536 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.08	
For >6,400 To 12,800, Deduct	-0.13	
For >12,800, Deduct	-0.17	
For Tongue And Groove, Add	0.06	
06 16 33 00-0055 SF 3/4" Particle Board Floor Decking .....	2.44	0.62
Note: Applied to plywood subfloor.		
For Fire Retardant Treatment Add	0.80	
For >1,536 To 3,200, Deduct	-0.06	
For >3,200 To 6,400, Deduct	-0.09	
For >6,400 To 12,800, Deduct	-0.15	
For >12,800, Deduct	-0.19	
For Tongue And Groove, Add	0.07	
<b>06 16 43 Gypsum Sheathing</b> <small>(06 16)</small>		
<b>06 16 43 00-0001 Exterior Gypsum Sheathing</b> <small>(06 16 43)</small>		
Note: Includes moisture resistant core and fiberglass mats on both sides and long edges.		
06 16 43 00-0002 SF 1/2" Exterior Gypsum Sheathing (GP Dens-Glass Gold) .....	2.42	0.82
For Application To Metal Studs, Joists, Or Rafters, Add	0.33	
For Ceiling Installation, Add	0.16	
For >1,696 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.07	
For >6,400 To 12,800, Deduct	-0.13	
For >12,800, Deduct	-0.18	
For Selective Replacement <400 (Includes Removal Of Damaged Gypsum And Fitting New Gypsum To Size), Add	2.45	
06 16 43 00-0003 SF 5/8" Exterior Gypsum Sheathing (GP Dens-Glass Gold) .....	2.61	1.02
For Application To Metal Studs, Joists, Or Rafters, Add	0.35	
For Ceiling Installation, Add	0.18	
For >1,696 To 3,200, Deduct	-0.05	
For >3,200 To 6,400, Deduct	-0.08	
For >6,400 To 12,800, Deduct	-0.14	
For >12,800, Deduct	-0.19	
For Selective Replacement <400 (Includes Removal Of Damaged Gypsum And Fitting New Gypsum To Size), Add	2.63	

**END OF SECTION 06**

06	<b>06</b>	<b>Wood, Plastics, and Composites</b>
	06 10	Rough Carpentry
	06 16	Sheathing




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MINOR	TOTAL DIRECT
CSI UOM DESCRIPTION	UNIT COST DEMOLITION
	UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 07 Thermal And Moisture Protection

### 07 01 Operation And Maintenance Of Thermal And Moisture Protection<sup>(07)</sup>

#### 07 01 50 Maintenance Of Membrane Roofing<sup>(07 01)</sup>

##### 07 01 50 19 Preparation For Re-Roofing<sup>(07 01 50)</sup>

###### 07 01 50 19-0001 Preparation For Re-Roofing<sup>(07 01 50 19)</sup>

07 01 50 19-0002	SQ	Remove Pea Gravel Ballast From Roof, Vacuum And Disposal.....	19.39
07 01 50 19-0003	SQ	Remove Gravel Ballast From Roof, Vacuum And Disposal .....	34.21

##### 07 01 50 81 Roof Replacement<sup>(07 01 50)</sup>

###### 07 01 50 81-0001 Roof Repair<sup>(07 01 50 81)</sup>

Note: Less than 100 SF areas. Excludes mobilization of crew for small quantity of roof work. See CSI section 07 05 13 00-0001 for mobilization of crew for small quantity of roof work.

07 01 50 81-0002	SF	Roof Repair, Built-Up Roofing, Up To 10 SF .....	17.46
07 01 50 81-0003	SF	Roof Repair, Built-Up Roofing, >10 To 25 SF .....	15.64
07 01 50 81-0004	SF	Roof Repair, Built-Up Roofing, >25 To 50 SF .....	14.22
07 01 50 81-0005	SF	Roof Repair, Built-Up Roofing, >50 To 100 SF .....	13.23
07 01 50 81-0006	SF	Roof Repair, Membrane Roofing, Up To 10 SF .....	19.70
07 01 50 81-0007	SF	Roof Repair, Membrane Roofing, >10 To 25 SF .....	17.88
07 01 50 81-0008	SF	Roof Repair, Membrane Roofing, >25 To 50 SF .....	16.47
07 01 50 81-0009	SF	Roof Repair, Membrane Roofing, >50 To 100 SF .....	15.48
07 01 50 81-0010	SF	Roof Repair, Shingle Roofing, Up To 10 SF .....	15.22
07 01 50 81-0011	SF	Roof Repair, Shingle Roofing, >10 To 25 SF .....	13.62
07 01 50 81-0012	SF	Roof Repair, Shingle Roofing, >25 To 50 SF .....	12.43
07 01 50 81-0013	SF	Roof Repair, Shingle Roofing, >50 To 100 SF .....	11.66
07 01 50 81-0014	LF	Heat Weld Roofing Seams For Repair .....	5.49

###### 07 01 50 81-0015 Emergency Roof Patch<sup>(07 01 50 81)</sup>

Note: 4 Hour response time.

07 01 50 81-0016	EA	Granule Emergency Roof Patch Cover 16 SF .....	70.85
07 01 50 81-0017	EA	Mobilize For Emergency Roof Patching .....	345.09

###### 07 01 50 81-0018 Adhesives<sup>(07 01 50 81)</sup>

Note: For repair of seams.

###### 07 01 50 81-0019 Mastic Sealer<sup>(07 01 50 81-0018)</sup>

###### 07 01 50 81-0020 Applied At Joints Only<sup>(07 01 50 81-0019)</sup>

07 01 50 81-0021	LF	Mastic Sealer, 1/4" Bead At Joint .....	3.44
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1.47

##### 07 01 50 91 Roofing Restoration<sup>(07 01 50)</sup>

###### 07 01 50 91-0001 Pressure Wash Membrane Roofing<sup>(07 01 50 91)</sup>

07 01 50 91-0002	SF	Up To 2,500 PSI, Pressure Wash Membrane Roofing .....	0.12
		For Up To 100, Add .....	0.09
		For >100 To 250, Add .....	0.04
		For >250 To 500, Add .....	0.02
		For >5,000 To 10,000, Deduct .....	-0.01
		For >10,000 To 15,000, Deduct .....	-0.01
		For >15,000 To 30,000, Deduct .....	-0.02
		For >30,000, Deduct .....	-0.02

## 07 05 Common Work Results For Thermal And Moisture Protection<sup>(07)</sup>

### 07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work<sup>(07 05)</sup>

#### 07 05 13 00-0001 Mobilization Of Crew For Small Quantity Of Roof Work<sup>(07 05 13)</sup>

Note: For use with all roofing tasks where the total quantity of roof work is 4 squares or less.

07 05 13 00-0002	EA	Up To 1 SQ, Mobilization Of Crew For Small Quantity Of Roof Work .....	1,038.58
07 05 13 00-0003	EA	>1 To 2 SQ, Mobilization Of Crew For Small Quantity Of Roof Work .....	777.06
07 05 13 00-0004	EA	>2 To 3 SQ, Mobilization Of Crew For Small Quantity Of Roof Work .....	519.29
07 05 13 00-0005	EA	>3 To 4 SQ, Mobilization Of Crew For Small Quantity Of Roof Work .....	259.02

## 07 10 Dampproofing And Waterproofing<sup>(07)</sup>

Note: The following tasks are for application to vertical (walls and foundations) surfaces. For horizontal (flat) surfaces apply the appropriate modifier to reduce the labor cost. Waterproofing is the treatment of a surface or structure to PREVENT the passage of water under hydrostatic pressure. Dampproofing is the treatment of a surface or structure to RESIST the passage of water in the absence of

**07 Thermal And Moisture Protection****07 10 Dampproofing And Waterproofing**

07 05 13 Mobilization Of Crew For Small Quantity Of Roof Work



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
hydrostatic pressure.		
<b>07 11 Dampproofing</b> (07 10)		
<b>07 11 13 Bituminous Dampproofing</b> (07 11)		
<b>07 11 13 00-0001 Fibrous Asphalt Dampproofing, Brush, Roller Or Spray</b> (07 11 13)		
07 11 13 00-0002 CSF 1 Coat, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray .....	120.77	
07 11 13 00-0003 CSF 2 Coats, Fibrous Asphalt Dampproofing, Brush, Roller Or Spray .....	189.20	
<b>07 11 13 00-0004 Fibrous Asphalt Dampproofing, Troweled On</b> (07 11 13)		
07 11 13 00-0005 CSF Primer And 1 Coat, Fibrous Asphalt Dampproofing, Troweled On .....	202.79	
07 11 13 00-0006 CSF Primer And 2 Coats, Fibrous Asphalt Dampproofing, Troweled On .....	308.95	
<b>07 11 13 00-0007 Asphaltic Paint Dampproofing</b> (07 11 13)		
07 11 13 00-0008 CSF 1 Coat, Asphaltic Paint Dampproofing, Brushed On .....	98.12	
07 11 13 00-0009 CSF 2 Coats, Asphaltic Paint Dampproofing, Brushed On .....	180.68	
<b>07 11 19 Sheet Dampproofing</b> (07 11)		
<b>07 11 19 00-0001 Neoprene</b> (07 11 19)		
07 11 19 00-0002 SF 1/16" Patch Neoprene Roof (5-20 SF) .....	28.23	
<b>07 13 Sheet Waterproofing</b> (07 10)		
<b>07 13 13 Bituminous Sheet Waterproofing</b> (07 13)		
<b>07 13 13 00-0001 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped</b> (07 13)		
07 13 13 00-0002 CSF 1 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped .....	213.55	84.20
<i>For 30 LB Felt, Add</i>	33.87	
<i>For Application To Horizontal Surfaces, Deduct</i>	-25.26	
07 13 13 00-0003 CSF 2 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped .....	260.52	94.72
<i>For 30 LB Felt, Add</i>	53.30	
<i>For Application To Horizontal Surfaces, Deduct</i>	-28.42	
07 13 13 00-0004 CSF 3 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped .....	307.47	105.25
<i>For 30 LB Felt, Add</i>	72.73	
<i>For Application To Horizontal Surfaces, Deduct</i>	-31.58	
07 13 13 00-0005 CSF 4 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped .....	354.41	115.77
<i>For 30 LB Felt, Add</i>	92.15	
<i>For Application To Horizontal Surfaces, Deduct</i>	-34.73	
07 13 13 00-0006 CSF 5 Ply, 15 LB Asphalt Saturated Organic Felt Sheet Waterproofing, Hot-Mopped .....	401.37	126.30
<i>For 30 LB Felt, Add</i>	111.59	
<i>For Application To Horizontal Surfaces, Deduct</i>	-37.89	
<b>07 13 13 00-0007 Asphalt Coated Protective Board</b> (07 13 13)		
07 13 13 00-0008 CSF 1/8" Asphalt Coated Protective Board .....	205.88	83.21
<i>For Application To Horizontal Surfaces, Deduct</i>	-27.75	
07 13 13 00-0009 CSF 1/4" Asphalt Coated Protective Board .....	270.96	86.41
<i>For Application To Horizontal Surfaces, Deduct</i>	-28.80	
07 13 13 00-0010 CSF 3/8" Asphalt Coated Protective Board .....	349.36	90.04
<i>For Application To Horizontal Surfaces, Deduct</i>	-30.00	
07 13 13 00-0011 CSF 1/2" Asphalt Coated Protective Board .....	389.53	93.67
<i>For Application To Horizontal Surfaces, Deduct</i>	-31.23	
<b>07 13 53 Elastomeric Sheet Waterproofing</b> (07 13)		
<b>07 13 53 00-0001 Rubberized Membrane Sheet</b> (07 13 53)		
07 13 53 00-0002 SF 215 Mil Rubberized Asphalt Membrane Sheet, Vertical Surface .....	5.66	0.86
<i>For Floor Surfaces, Deduct</i>	-0.85	
<b>07 13 53 00-0003 Ethylene Propylene Diene Monomer (EPDM)</b> (07 13 53)		
07 13 53 00-0004 CSF 45 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane .....	386.92	120.97
<i>For Application To Horizontal Surfaces, Deduct</i>	-36.29	
07 13 53 00-0005 CSF 60 Mil Ethylene Propylene Diene Monomer (EPDM) Membrane .....	453.85	120.97
<i>For Application To Horizontal Surfaces, Deduct</i>	-36.29	
<b>07 13 53 00-0006 Butyl Sheet Waterproofing</b> (07 13 53)		
07 13 53 00-0007 CSF 1/32" Butyl Sheet Waterproofing .....	98.74	30.24
<i>For Joint Taping, Add</i>	11.91	
<i>For Each Additional Ply, Add</i>	72.15	
<i>For Application To Horizontal Surfaces, Deduct</i>	-4.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 13 53 00-0008 CSF 1/16" Butyl Sheet Waterproofing..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	120.52 13.00 87.39 -4.55	30.24
<b>07 13 53 00-0009 Butyl With Nylon (07 13 53)</b>		
07 13 53 00-0010 CSF 1/32" Butyl Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	111.19 12.53 80.86 -4.55	30.24
07 13 53 00-0011 CSF 1/16" Butyl Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	125.19 13.23 90.66 -4.55	30.24
<b>07 13 53 00-0012 Neoprene Sheet Waterproofing (07 13 53)</b>		
07 13 53 00-0013 CSF 1/32" Neoprene Sheet Waterproofing..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	182.81 16.11 131.00 -4.55	30.24
07 13 53 00-0014 CSF 1/16" Neoprene Sheet Waterproofing..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	275.51 20.74 195.89 -4.55	30.24
<b>07 13 53 00-0015 Neoprene With Nylon (07 13 53)</b>		
07 13 53 00-0016 CSF 1/32" Neoprene Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	192.49 16.59 137.77 -4.55	30.24
07 13 53 00-0017 CSF 1/16" Neoprene Elastomeric Waterproofing With Nylon..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	290.96 21.52 206.70 -4.55	30.24
<b>07 13 53 00-0018 Plastic Vapor Barrier (Polyethylene) (07 13 53)</b>		
07 13 53 00-0019 CSF 4 Mil Polyethylene Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	31.27 7.86 24.63 -4.11	12.37
07 13 53 00-0020 CSF 6 Mil Polyethylene Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	31.82 7.89 25.01 -4.11	12.37
07 13 53 00-0021 CSF 10 Mil Polyethylene Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	46.06 8.60 34.98 -4.11	12.37
07 13 53 00-0022 CSF 60 Mil Polyethylene Vapor Barrier With Bentonite..... <i>Note: Includes seam tape, liquid mastic, anchors and termination bar.</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	146.96 105.92 -4.56	12.37
<b>07 13 53 00-0023 Plastic Vapor Barrier (PVC) (07 13 53)</b>		
07 13 53 00-0024 CSF 10 Mil Polyvinyl Chloride (PVC) Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	52.03 8.90 39.16 -4.11	13.70
07 13 53 00-0025 CSF 20 Mil Polyvinyl Chloride (PVC) Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	70.99 10.09 52.54 -4.26	14.20
07 13 53 00-0026 CSF 30 Mil Polyvinyl Chloride (PVC) Vapor Barrier..... <i>For Joint Taping, Add</i> <i>For Each Additional Ply, Add</i> <i>For Application To Horizontal Surfaces, Deduct</i>	96.61 11.59 70.57 -4.41	14.70
<b>07 13 53 00-0027 Vinyl Plastic Vapor Barrier (07 13 53)</b>		
07 13 53 00-0028 CSF Tu-Tuf 4, 4 Mil Vinyl Plastic Vapor Barrier With Fiberglass Insulation At Joints.....	36.71	12.68
<b>07 14 Fluid-Applied Waterproofing (07 10)</b>		
<b>07 14 13 Hot Fluid-Applied Rubberized Asphalt Waterproofing (07 14)</b>		
07 14 13 00-0001 Hot Applied Rubberized Asphalt Waterproofing Coating (07 14 13)		

**07 Thermal And Moisture Protection****07 10 Dampproofing And Waterproofing****07 14 Fluid-Applied Waterproofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 14 13 00-0002 SF 90 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	1.61	
Note: Includes primer.		
For Application To Horizontal Surfaces, Deduct	-0.16	
For Reinforcing Fabric, Add	0.33	
07 14 13 00-0003 SF 125 Mil Hot Applied Rubberized Asphalt Waterproofing Coating, Vertical Surface.....	1.87	
Note: Includes primer.		
For Application To Horizontal Surfaces, Deduct	-0.17	
For Reinforcing Fabric, Add	0.33	
<b>07 14 16 Cold Fluid-Applied Waterproofing (07 14)</b>		
<b>07 14 16 00-0001 Fluid Applied Rubber Based Polyurethane (07 14 16)</b>		
07 14 16 00-0002 SF 60 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	3.19	
For Application To Horizontal Surfaces, Deduct	-0.36	
07 14 16 00-0003 SF 90 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	3.70	
For Application To Horizontal Surfaces, Deduct	-0.38	
07 14 16 00-0004 SF 120 Mil Thick, Fluid Applied, Rubber Base, Polyurethane Applied In 2 Coats.....	4.23	
For Application To Horizontal Surfaces, Deduct	-0.41	
<b>07 14 16 00-0005 One Part Solution Of Chlorosulfonated Polyethylene Polymer (07 14 16)</b>		
07 14 16 00-0006 SF Chlorosulfonated Polyethylene Polymer 1 Part Solution, 15 Mil, Finish Coat.....	2.20	
<b>07 14 16 00-0007 Copolymer Compound (07 14 16)</b>		
07 14 16 00-0008 SF Fluid Elastomeric Copolymer Compound For Slabs 32 Mil.....	3.42	
<b>07 14 16 00-0009 Fluid Applied Neoprene (07 14 16)</b>		
07 14 16 00-0010 CSF Fluid Neoprene, 1/8" Fiberglass Reinforced.....	393.84	
For Application To Horizontal Surfaces, Deduct	-44.07	
07 14 16 00-0011 CSF Fluid Neoprene, 50 Mil, 4 Coats.....	820.86	
For Application To Horizontal Surfaces, Deduct	-86.45	
07 14 16 00-0012 CSF Fluid Neoprene, 90 Mil, 4 Coats.....	1,353.12	
For Application To Horizontal Surfaces, Deduct	-129.62	
<b>07 16 Cementitious And Reactive Waterproofing (07 10)</b>		
<b>07 16 13 Polymer Modified Cement Waterproofing (07 16)</b>		
07 16 13 00-0001 SF Polymer Modified Cementitious Waterproofing Assembly, 2 Coats.....	3.66	
Note: As manufactured by Thoro Consumer Products. Includes Thoroseal, Acryl 60, acrylic waterproof coating and white pigmented acrylic copolymer primer.		
<b>07 16 16 Crystalline Waterproofing (07 16)</b>		
07 16 16 00-0001 SF Crystalline Cementitious Waterproofing. 2 Coats (Xypex Concentrate).....	4.21	
<b>07 16 19 Metal Oxide Waterproofing (07 16)</b>		
<b>07 16 19 00-0001 Metallic Oxide Waterproofing (07 16 19)</b>		
Note: Includes one broom applied bond coat and three brush applied waterproof coats. Excludes concrete repairs to subbase and final protective concrete surface coat. See CSI section 03 54 16 00-0001 for self leveling underlayment for concrete floors.		
07 16 19 00-0002 CSF Catalyzed Metallic Waterproofing Treatment, Metal Oxide Waterproofing (Euclid Iron Waterpeller).....	368.68	
For Application To Horizontal Surfaces, Deduct	-48.65	
<b>07 17 Bentonite Waterproofing (07 10)</b>		
<b>07 17 13 Bentonite Panel Waterproofing (07 17)</b>		
07 17 13 00-0001 CSF 3/16" Bentonite Waterproofing Panels.....	338.32	99.28
For Application To Horizontal Surfaces, Deduct	-29.79	
07 17 13 00-0002 CSF 1/4" Bentonite Waterproofing Panels.....	312.58	104.90
For Application To Horizontal Surfaces, Deduct	-32.24	
07 17 13 00-0003 CSF 5/8" Bentonite Waterproofing Panels.....	422.77	109.40
For Application To Horizontal Surfaces, Deduct	-32.81	
07 17 13 00-0004 CSF 3/8" Granular Bentonite, Troweled.....	341.56	90.99
For Application To Horizontal Surfaces, Deduct	-27.29	
<b>07 19 Water Repellents (07 10)</b>		
<b>07 19 13 Acrylic Sealer (07 19)</b>		
Note: Per coat.		
07 19 13 00-0001 SF Acrylic Sealer, Spray On Concrete.....	1.85	
07 19 13 00-0002 SF Acrylic Sealer, Spray On Concrete Block/Brick.....	2.21	
07 19 13 00-0003 SF Acrylic Sealer, Spray On Stone.....	2.43	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**07 19 16 Silane Water Repellents** (07 19)

<b>07 19 16 00-0001 Silane Concrete Sealer</b> <small>(07 19 16)</small>					
07 19 16 00-0002	SF	Spray On Concrete, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)		0.43	
07 19 16 00-0003	SF	Spray On Concrete Block/Brick, Water Based, Silane Penetrating Water Repellent Sealer (Specchem SpecSilane 40 WB)		0.65	
<b>07 19 16 00-0004 Silane/Siloxane Concrete Sealer</b> <small>(07 19 16)</small>					
07 19 16 00-0005	SF	Spray On Concrete, Solvent Based, Silane/Siloxane Concrete Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)		0.75	
<i>Note: 40% silane, alcohol based.</i>					
07 19 16 00-0006	SF	Spray On Concrete Block/Brick, Solvent Based, Silane/Siloxane Penetrating Water Repellent Sealer (Anti-Hydro Aridox 40)		1.08	
<i>Note: 40% silane, alcohol based.</i>					
07 19 16 00-0007	SF	Spray On Concrete, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)		0.31	
<i>Note: 200 SF/GAL</i>					
07 19 16 00-0008	SF	Spray On Concrete Block/Masonry, Water-Based, Silane/Siloxane Penetrating Water Repellent Sealer (Prosoco Saltguard WB)		0.45	

**07 20 Thermal Protection** (07)

**07 21 Thermal Insulation** (07 20)

**07 21 13 Board Insulation** (07 21)

*Note: Types are stock sizes, mastic applied. See CSI section 07 22 16 00-0001 for rigid insulation for roofs.*

**07 21 13 13 Foam Board Insulation** (07 21 13)

<b>07 21 13 13-0001 Foam Glass (Cellular Glass), Foam Board Insulation</b> <small>(07 21 13 13)</small>					
07 21 13 13-0002	SF	1" Thick, R3.44, Foam Glass (Cellular Glass), Foam Board Insulation		2.54	0.35
				-0.06	
<i>For Horizontal Surface Application, Deduct</i>				0.05	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>				0.08	
<i>For Mechanically Fastened To Concrete, Add</i>				0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>				0.21	
07 21 13 13-0003	SF	1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Foam Board Insulation		3.50	0.35
				-0.06	
<i>For Horizontal Surface Application, Deduct</i>				0.05	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				-0.13	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>				0.06	
<i>For Mechanically Fastened To Concrete, Add</i>				0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>				0.21	
07 21 13 13-0004	SF	2" Thick, R6.88, Foam Glass (Cellular Glass), Foam Board Insulation		4.15	0.36
				-0.06	
<i>For Horizontal Surface Application, Deduct</i>				0.05	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				-0.13	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>				0.07	
<i>For Mechanically Fastened To Concrete, Add</i>				0.23	
<i>For Mechanically Fastened To Gypsum, Add</i>				0.23	
07 21 13 13-0005	SF	2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Foam Board Insulation		5.42	0.37
				-0.06	
<i>For Horizontal Surface Application, Deduct</i>				0.05	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				-0.08	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>				0.12	
<i>For Mechanically Fastened To Concrete, Add</i>				0.28	
<i>For Mechanically Fastened To Gypsum, Add</i>				0.28	
<b>07 21 13 13-0006 Expanded Polystyrene, Foam Board Insulation</b> <small>(07 21 13 13)</small>					
07 21 13 13-0007	SF	3/8" Thick, R1.44, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)		1.18	0.34
				-0.06	
<i>For Horizontal Surface Application, Deduct</i>				0.05	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>				0.08	
<i>For Mechanically Fastened To Concrete, Add</i>				0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>				0.21	
07 21 13 13-0008	SF	1/2" Thick, R1.93, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)		1.24	0.34
				-0.06	
<i>For Horizontal Surface Application, Deduct</i>				0.05	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>				0.08	
<i>For Mechanically Fastened To Concrete, Add</i>				0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>				0.21	
07 21 13 13-0009	SF	3/4" Thick, R2.89, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)		1.41	0.35
				-0.06	
<i>For Horizontal Surface Application, Deduct</i>				0.05	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>				0.08	
<i>For Mechanically Fastened To Concrete, Add</i>				0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>				0.21	
07 21 13 13-0010	SF	1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)		1.56	0.35
				-0.06	
<i>For Horizontal Surface Application, Deduct</i>				0.05	
<i>For Vapor Barrier, Integral With Insulation, Add</i>				-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>				0.08	
<i>For Mechanically Fastened To Concrete, Add</i>				0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>				0.21	

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
07 21 13 13-0011	SF 2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i>	2.19 -0.06 0.05 -0.13 0.07 0.23	0.36
07 21 13 13-0012	SF 3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i>	2.81 -0.06 0.05 -0.08 0.12 0.28	0.37
07 21 13 13-0013	SF 4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Mechanically Fastened To Wood Or Steel, Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i>	3.43 -0.06 0.05 -0.03 0.17 0.32	0.38
07 21 13 13-0014	SF 5" Thick, R19.25, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Mechanically Fastened To Wood Or Steel, Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i>	4.05 -0.06 0.05 0.04 0.25 0.38	0.38
07 21 13 13-0015	SF 6" Thick, R23.1, Molded Expanded Polystyrene, Foam Board Insulation (MEPS)..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Mechanically Fastened To Wood Or Steel, Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i>	4.67 -0.07 0.05 0.29 0.50 0.46	0.39
<b>07 21 13 13-0016 Extruded Polystyrene, Foam Board Insulation</b> (07 21 13 13)			
Note: 15 PSI compressive strength.			
07 21 13 13-0017	SF 3/8" Thick, R1.9, Extruded Polystyrene, Foam Board Insulation..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For 25 PSI Compressive Strength, Add</i> <i>For 40 PSI Compressive Strength, Add</i> <i>For 60 PSI Compressive Strength, Add</i> <i>For 115 PSI Compressive Strength, Add</i>	1.33 -0.06 0.05 -0.15 0.08 0.21 0.12 0.29 0.47 2.01	0.34
07 21 13 13-0018	SF 1/2" Thick, R2.5, Extruded Polystyrene, Foam Board Insulation..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For 25 PSI Compressive Strength, Add</i> <i>For 40 PSI Compressive Strength, Add</i> <i>For 60 PSI Compressive Strength, Add</i> <i>For 115 PSI Compressive Strength, Add</i>	1.53 -0.06 0.05 -0.15 0.08 0.21 0.15 0.36 0.59 2.52	0.34
07 21 13 13-0019	SF 3/4" Thick, R3.7, Extruded Polystyrene, Foam Board Insulation..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For 25 PSI Compressive Strength, Add</i> <i>For 40 PSI Compressive Strength, Add</i> <i>For 60 PSI Compressive Strength, Add</i> <i>For 115 PSI Compressive Strength, Add</i>	1.70 -0.06 0.05 -0.15 0.08 0.21 0.18 0.43 0.68 2.94	0.35
07 21 13 13-0020	SF 1" Thick, R5.0, Extruded Polystyrene, Foam Board Insulation..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For 25 PSI Compressive Strength, Add</i> <i>For 40 PSI Compressive Strength, Add</i> <i>For 60 PSI Compressive Strength, Add</i> <i>For 115 PSI Compressive Strength, Add</i>	1.78 -0.06 0.05 -0.15 0.08 0.21 0.19 0.46 0.73 3.14	0.35
07 21 13 13-0021	SF 2" Thick, R10.0, Extruded Polystyrene, Foam Board Insulation..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For 25 PSI Compressive Strength, Add</i> <i>For 40 PSI Compressive Strength, Add</i> <i>For 60 PSI Compressive Strength, Add</i> <i>For 115 PSI Compressive Strength, Add</i>	2.63 -0.06 0.05 -0.13 0.07 0.23 0.32 0.77 1.21 5.28	0.36





**Thermal And Moisture Protection 07**

Thermal Protection 07 20

Thermal Insulation 07 21

07

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 13 13-0022	SF		3" Thick, R15.0, Extruded Polystyrene, Foam Board Insulation ..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For 25 PSI Compressive Strength, Add</i> <i>For 40 PSI Compressive Strength, Add</i> <i>For 60 PSI Compressive Strength, Add</i> <i>For 115 PSI Compressive Strength, Add</i>	3.48 -0.06 0.05 -0.08 0.12 0.28 0.46 1.09 1.70 7.44	0.37
07 21 13 13-0023	SF		4" Thick, R20.0, Extruded Polystyrene, Foam Board Insulation ..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Mechanically Fastened To Wood Or Steel, Add</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i> <i>For 25 PSI Compressive Strength, Add</i> <i>For 40 PSI Compressive Strength, Add</i> <i>For 60 PSI Compressive Strength, Add</i> <i>For 115 PSI Compressive Strength, Add</i>	3.90 -0.06 0.05 -0.03 0.17 0.32 0.52 1.25 1.93 8.49	0.38
<b>07 21 13 16 Fibrous Board Insulation (07 21 13)</b>					
<b>07 21 13 16-0001 Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation (07 21 13 16)</b>					
07 21 13 16-0002	SF		1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation ..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i>	1.72 -0.07 0.05 0.17 -0.15 0.13 0.26	0.44
07 21 13 16-0003	SF		2" Thick, R5.2, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation ..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i>	2.49 -0.09 0.05 0.17 -0.13 0.16 0.32	0.52
07 21 13 16-0004	SF		3" Thick, R7.8, Wood Fiber (Cellulosic-Fiber), Fibrous Board Insulation ..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i>	3.26 -0.10 0.05 0.17 -0.08 0.26 0.42	0.61
<b>07 21 13 16-0005 Fiberglass, Fibrous Board Insulation (07 21 13 16)</b>					
07 21 13 16-0006	SF		1" Thick, R4.2, Fiberglass, Fibrous Board Insulation ..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i>	2.91 -0.06 0.05 0.17 -0.15 0.08 0.21	0.35
07 21 13 16-0007	SF		1-1/2" Thick, R6.0, Fiberglass, Fibrous Board Insulation ..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i>	3.24 -0.06 0.05 0.17 -0.13 0.06 0.21	0.35
07 21 13 16-0008	SF		2" Thick, R8.0, Fiberglass, Fibrous Board Insulation ..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i>	3.96 -0.06 0.05 0.17 -0.13 0.07 0.23	0.36
07 21 13 16-0009	SF		2-1/2" Thick, R10.0, Fiberglass, Fibrous Board Insulation ..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i>	4.53 -0.06 0.05 0.17 -0.08 0.12 0.26	0.36
07 21 13 16-0010	SF		3" Thick, R12.4, Fiberglass, Fibrous Board Insulation ..... <i>For Horizontal Surface Application, Deduct</i> <i>For Vapor Barrier, Integral With Insulation, Add</i> <i>For Factory Painted On One Surface Add</i> <i>For Mechanically Fastened To Wood Or Steel, Deduct</i> <i>For Mechanically Fastened To Concrete, Add</i> <i>For Mechanically Fastened To Gypsum, Add</i>	5.11 -0.06 0.05 0.17 -0.08 0.12 0.28	0.37

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 21 Thermal Insulation**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**07 21 13 19 Mineral Board Insulation** (07 21 13)**07 21 13 19-0001 High-Density Fiberboard, Mineral Board Insulation** (07 21 13 19)

07 21 13 19-0002	SF 1/2" Thick, R1.3, High-Density Fiberboard, Mineral Board Insulation .....	1.33	0.39
	<i>For Horizontal Surface Application, Deduct</i>	-0.07	
	<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
	<i>For Factory Painted On One Surface Add</i>	0.17	
	<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
	<i>For Mechanically Fastened To Concrete, Add</i>	0.10	
	<i>For Mechanically Fastened To Gypsum, Add</i>	0.23	
07 21 13 19-0003	SF 25/32" Thick, R1.9, High-Density Fiberboard, Mineral Board Insulation .....	1.56	0.41
	<i>For Horizontal Surface Application, Deduct</i>	-0.07	
	<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
	<i>For Factory Painted On One Surface Add</i>	0.17	
	<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
	<i>For Mechanically Fastened To Concrete, Add</i>	0.12	
	<i>For Mechanically Fastened To Gypsum, Add</i>	0.25	
07 21 13 19-0004	SF 1" Thick, R2.5, High-Density Fiberboard, Mineral Board Insulation .....	1.80	0.44
	<i>For Horizontal Surface Application, Deduct</i>	-0.07	
	<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
	<i>For Factory Painted On One Surface Add</i>	0.17	
	<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
	<i>For Mechanically Fastened To Concrete, Add</i>	0.13	
	<i>For Mechanically Fastened To Gypsum, Add</i>	0.26	
07 21 13 19-0005	SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Mineral Board Insulation .....	2.22	0.48
	<i>For Horizontal Surface Application, Deduct</i>	-0.08	
	<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
	<i>For Factory Painted On One Surface Add</i>	0.17	
	<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
	<i>For Mechanically Fastened To Concrete, Add</i>	0.13	
	<i>For Mechanically Fastened To Gypsum, Add</i>	0.28	
07 21 13 19-0006	SF 2" Thick, R5.0, High-Density Fiberboard, Mineral Board Insulation .....	2.64	0.52
	<i>For Horizontal Surface Application, Deduct</i>	-0.09	
	<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
	<i>For Factory Painted On One Surface Add</i>	0.17	
	<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
	<i>For Mechanically Fastened To Concrete, Add</i>	0.16	
	<i>For Mechanically Fastened To Gypsum, Add</i>	0.32	
07 21 13 19-0007	SF 3" Thick, R7.5, High-Density Fiberboard, Mineral Board Insulation .....	3.49	0.61
	<i>For Horizontal Surface Application, Deduct</i>	-0.10	
	<i>For Vapor Barrier, Integral With Insulation, Add</i>	0.05	
	<i>For Factory Painted On One Surface Add</i>	0.17	
	<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
	<i>For Mechanically Fastened To Concrete, Add</i>	0.26	
	<i>For Mechanically Fastened To Gypsum, Add</i>	0.42	

**07 21 16 Blanket Insulation** (07 21)

Note: All insulation rolls or batts applied to wood or steel studs or between rafters or between metal building "skin" and framing.

**07 21 16 00-0001 Fiberglass Flexible Insulation** (07 21 16)

Note: Rolls or batts.

**07 21 16 00-0002 Kraft Faced, Fiberglass Flexible Insulation** (07 21 16 00-0001)

07 21 16 00-0003	SF 3-1/2" Thick, Kraft Faced, R-11 Fiberglass Flexible Insulation.....	1.32	0.46
	<i>For &gt;1,600, Deduct</i>	-0.11	
07 21 16 00-0004	SF 3-1/2" Thick, Kraft Faced, R-13 Fiberglass Flexible Insulation.....	1.40	0.46
	<i>For &gt;1,600, Deduct</i>	-0.12	
07 21 16 00-0005	SF 3-1/2" Thick, Kraft Faced, R-15 Fiberglass Flexible Insulation.....	1.43	0.46
	<i>For &gt;1,600, Deduct</i>	-0.12	
07 21 16 00-0006	SF 5-1/2" Thick, Kraft Faced, R-21 Fiberglass Flexible Insulation.....	1.80	0.46
	<i>For &gt;1,600, Deduct</i>	-0.18	
07 21 16 00-0007	SF 6-1/4" Thick, Kraft Faced, R-19 Fiberglass Flexible Insulation.....	1.53	0.46
	<i>For &gt;1,600, Deduct</i>	-0.14	
07 21 16 00-0008	SF 9-1/2" Thick, Kraft Faced, R-30 Fiberglass Flexible Insulation.....	2.34	0.57
	<i>For &gt;1,600, Deduct</i>	-0.22	
07 21 16 00-0009	SF 12" Thick, Kraft Faced, R-38 Fiberglass Flexible Insulation.....	2.47	0.57
	<i>For &gt;1,600, Deduct</i>	-0.24	

**07 21 16 00-0010 Unfaced, Fiberglass Flexible Insulation** (07 21 16 00-0001)

07 21 16 00-0011	SF 3-1/2" Thick, Unfaced, R-11 Fiberglass Flexible Insulation.....	1.26	0.46
	<i>For &gt;1,600, Deduct</i>	-0.10	
07 21 16 00-0012	SF 3-1/2" Thick, Unfaced, R-13 Fiberglass Flexible Insulation.....	1.36	0.46
	<i>For &gt;1,600, Deduct</i>	-0.11	
07 21 16 00-0013	SF 3-1/2" Thick, Unfaced, R-15 Fiberglass Flexible Insulation.....	1.73	0.46
	<i>For &gt;1,600, Deduct</i>	-0.17	
07 21 16 00-0014	SF 5-1/2" Thick, Unfaced, R-21 Fiberglass Flexible Insulation.....	1.74	0.46
	<i>For &gt;1,600, Deduct</i>	-0.17	
07 21 16 00-0015	SF 6-1/4" Thick, Unfaced, R-19 Fiberglass Flexible Insulation.....	1.49	0.46
	<i>For &gt;1,600, Deduct</i>	-0.13	
07 21 16 00-0016	SF 9-1/2" Thick, Unfaced, R-30 Fiberglass Flexible Insulation.....	2.23	0.57
	<i>For &gt;1,600, Deduct</i>	-0.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 16 00-0017 SF 12" Thick, Unfaced, R-38 Fiberglass Flexible Insulation..... <i>For &gt;1,600, Deduct</i>	2.40 -0.23	0.57
<b>07 21 16 00-0018 Foil Faced, Fiberglass Flexible Insulation (07 21 16 00-0001)</b>		
07 21 16 00-0019 SF 3-1/2" Thick, Foil Faced, R-11 Fiberglass Flexible Insulation ..... <i>For &gt;1,600, Deduct</i>	1.47 -0.13	0.46
07 21 16 00-0020 SF 3-1/2" Thick, Foil Faced, R-13 Fiberglass Flexible Insulation ..... <i>For &gt;1,600, Deduct</i>	1.61 -0.15	0.46
07 21 16 00-0021 SF 6-1/4" Thick, Foil Faced, R-19 Fiberglass Flexible Insulation ..... <i>For &gt;1,600, Deduct</i>	1.73 -0.17	0.46
07 21 16 00-0022 SF 10-1/4" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation ..... <i>For &gt;1,600, Deduct</i>	2.56 -0.26	0.57
07 21 16 00-0023 SF 12" Thick, Foil Faced, R-38 Fiberglass Flexible Insulation ..... <i>For &gt;1,600, Deduct</i>	2.73 -0.28	0.57
<b>07 21 16 00-0024 Poly-Encapsulated, Fiberglass Flexible Insulation (07 21 16 00-0001)</b>		
07 21 16 00-0025 SF 3-1/2" Thick, Poly-Encapsulated, R-11 Fiberglass Flexible Insulation ..... <i>For &gt;1,600, Deduct</i>	1.35 -0.11	0.46
07 21 16 00-0026 SF 3-1/2" Thick, Poly-Encapsulated, R-13 Fiberglass Flexible Insulation ..... <i>For &gt;1,600, Deduct</i>	1.43 -0.12	0.46
07 21 16 00-0027 SF 5-1/2" Thick, Poly-Encapsulated, R-21 Fiberglass Flexible Insulation ..... <i>For &gt;1,600, Deduct</i>	1.85 -0.19	0.46
07 21 16 00-0028 SF 6-1/2" Thick, Poly-Encapsulated, R-19 Fiberglass Flexible Insulation ..... <i>For &gt;1,600, Deduct</i>	1.54 -0.14	0.46
07 21 16 00-0029 SF 8-1/4" Thick, Poly-Encapsulated, R-25 Fiberglass Flexible Insulation ..... <i>For &gt;1,600, Deduct</i>	2.34 -0.22	0.57
07 21 16 00-0030 SF 10-1/4" Thick, Poly-Encapsulated, R-30 Fiberglass Flexible Insulation ..... <i>For &gt;1,600, Deduct</i>	2.40 -0.23	0.57
<b>07 21 16 00-0031 Mineral Wool Flexible Insulation (07 21 16)</b>		
<b>07 21 16 00-0032 Kraft Faced, Mineral Wool Flexible Insulation (07 21 16 00-0031)</b>		
07 21 16 00-0033 SF 3-1/2" Kraft Faced, R-11 Mineral Wool Flexible Insulation..... <i>For &gt;1,600, Deduct</i>	1.45 -0.13	0.46
07 21 16 00-0034 SF 6-1/4" Kraft Faced, R-19 Mineral Wool Flexible Insulation..... <i>For &gt;1,600, Deduct</i>	1.85 -0.18	0.46
07 21 16 00-0035 SF 9-1/2" Kraft Faced, R-30 Mineral Wool Flexible Insulation..... <i>For &gt;1,600, Deduct</i>	2.84 -0.31	0.46
07 21 16 00-0036 SF 12" Kraft Faced, R-38 Mineral Wool Flexible Insulation..... <i>For &gt;1,600, Deduct</i>	3.19 -0.36	0.46
<b>07 21 16 00-0037 Unfaced, Mineral Wool Flexible Insulation (07 21 16 00-0031)</b>		
07 21 16 00-0038 SF 3-1/2" Unfaced, R-11 Mineral Wool Flexible Insulation..... <i>For &gt;1,600, Deduct</i>	1.36 -0.11	0.46
07 21 16 00-0039 SF 6-1/4" Unfaced, R-19 Mineral Wool Flexible Insulation..... <i>For &gt;1,600, Deduct</i>	1.71 -0.16	0.46
07 21 16 00-0040 SF 9-1/2" Unfaced, R-30 Mineral Wool Flexible Insulation ..... <i>For &gt;1,600, Deduct</i>	2.59 -0.27	0.46
07 21 16 00-0041 SF 12" Unfaced, R-38 Mineral Wool Flexible Insulation ..... <i>For &gt;1,600, Deduct</i>	2.89 -0.32	0.46
<b>07 21 16 00-0042 Natural Cotton Insulation (07 21 16)</b>		
<b>07 21 16 00-0043 UltraTouch Natural Cotton Insulation (07 21 16 00-0042)</b>		
Note: 85% recycled denim cotton.		
07 21 16 00-0044 SF 3-1/2", R-13 UltraTouch Natural Cotton Insulation..... <i>For &gt;1,600, Deduct</i>	1.88 -0.19	0.46
07 21 16 00-0045 SF 5-1/2", R-19 UltraTouch Natural Cotton Insulation..... <i>For &gt;1,600, Deduct</i>	2.11 -0.22	0.46
07 21 16 00-0046 SF 5-1/2", R-21 UltraTouch Natural Cotton Insulation..... <i>For &gt;1,600, Deduct</i>	2.33 -0.25	0.46
07 21 16 00-0047 SF 8", R-30 UltraTouch Natural Cotton Insulation..... <i>For &gt;1,600, Deduct</i>	3.12 -0.35	0.46
<b>07 21 19 Foamed-In-Place Insulation (07 21)</b>		
<b>07 21 19 00-0001 Polyurethane Foam Insulation, Sprayed On (07 21 19)</b>		
07 21 19 00-0002 SF 1" Thick, R3.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	1.05	
07 21 19 00-0003 SF 2" Thick, R7.6, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	1.74	
07 21 19 00-0004 SF 3" Thick, R11.4, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	2.45	
07 21 19 00-0005 SF 4" Thick, R15.2, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	3.13	
07 21 19 00-0006 SF 5" Thick, R19.0, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	3.82	
07 21 19 00-0007 SF 6" Thick, R22.8, 0.5 PCF, Open Cell, Spray Polyurethane Foam Insulation.....	4.51	
07 21 19 00-0008 SF 1" Thick, R6.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	2.03	
07 21 19 00-0009 SF 2" Thick, R13.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	3.13	
07 21 19 00-0010 SF 3" Thick, R19.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	4.24	
07 21 19 00-0011 SF 4" Thick, R26.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation.....	5.35	

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 21 Thermal Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 19 00-0012	SF		5" Thick, R32.5, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation .....	6.46	
07 21 19 00-0013	SF		6" Thick, R39.0, 2.0 PCF, Closed Cell, Spray Polyurethane Foam Insulation .....	7.58	
<b>07 21 23 Loose-Fill Insulation (07 21)</b>					
<b>07 21 23 00-0001 Poured Type, Loose Fill Insulation (07 21 23)</b>					
07 21 23 00-0002	CF		R-3.5/Inch, Poured Type, Fiberglass Loose Fill Insulation.....	6.55	2.65
07 21 23 00-0003	CF		R-3.7/Inch, Poured Type, Cellulose Loose Fill Insulation.....	6.91	2.65
<b>07 21 23 00-0004 Concrete Block Wall Cavity Insulation (07 21 23)</b>					
07 21 23 00-0005	CF		R-2.7, Vermiculite Or Perlite, Concrete Block Wall Cavity Insulation.....	8.51	2.65
07 21 23 00-0006	CF		R-4, Polystyrene Foam, Concrete Block Wall Cavity Insulation.....	8.44	2.65
<b>07 21 26 Blown Insulation (07 21)</b>					
<b>07 21 26 00-0001 Fiberglass Blown-In Insulation (07 21 26)</b>					
<b>07 21 26 00-0002 Attic, Fiberglass Blown-In Insulation (07 21 26 00-0001)</b>					
07 21 26 00-0003	SF		3-3/4" Thick, R-13 Attic, Fiberglass Blown In Insulation.....	1.34	1.08
07 21 26 00-0004	SF		6-1/4" Thick, R-19 Attic, Fiberglass Blown In Insulation.....	1.68	1.29
07 21 26 00-0005	SF		7-1/4" Thick, R-22 Attic, Fiberglass Blown In Insulation.....	1.85	1.40
07 21 26 00-0006	SF		10-1/4" Thick, R-30 Attic, Fiberglass Blown In Insulation.....	2.14	1.51
07 21 26 00-0007	SF		12-3/4" Thick, R-38 Attic, Fiberglass Blown In Insulation.....	2.42	1.62
07 21 26 00-0008	SF		13-1/2" Thick, R-40 Attic, Fiberglass Blown In Insulation.....	2.62	1.73
07 21 26 00-0009	SF		14-3/4" Thick, R-44 Attic, Fiberglass Blown In Insulation.....	2.67	1.73
07 21 26 00-0010	SF		16-1/2" Thick, R-49 Attic, Fiberglass Blown In Insulation.....	2.79	1.73
07 21 26 00-0011	SF		19" Thick, R-56 Attic, Fiberglass Blown In Insulation.....	3.04	1.73
07 21 26 00-0012	SF		21" Thick, R-60 Attic, Fiberglass Blown In Insulation.....	3.05	1.73
<b>07 21 26 00-0013 New Wall, Fiberglass Blown-In Insulation (07 21 26 00-0001)</b>					
07 21 26 00-0014	SF		3-1/2" Thick, R-15 New Wall, Fiberglass Blown In Insulation.....	1.79	1.08
07 21 26 00-0015	SF		5-1/2" Thick, R-23 New Wall, Fiberglass Blown In Insulation.....	2.36	1.29
07 21 26 00-0016	SF		7-1/4" Thick, R-31 New Wall, Fiberglass Blown In Insulation.....	2.77	1.40
07 21 26 00-0017	SF		9-1/4" Thick, R-39 New Wall, Fiberglass Blown In Insulation.....	3.27	1.51
<b>07 21 26 00-0018 Existing Wall, Fiberglass Blown-In Insulation (07 21 26 00-0001)</b>					
Note: Includes drilling. Excludes patching.					
07 21 26 00-0019	SF		3-1/2" Thick, R-15 Existing Wall, Fiberglass Blown In Insulation .....	1.71	1.08
07 21 26 00-0020	SF		5-1/2" Thick, R-23 Existing Wall, Fiberglass Blown In Insulation.....	2.28	1.29
07 21 26 00-0021	SF		7-1/4" Thick, R-31 Existing Wall, Fiberglass Blown In Insulation .....	2.69	1.40
07 21 26 00-0022	SF		9-1/4" Thick, R-39 Existing Wall, Fiberglass Blown In Insulation .....	3.19	1.51
<b>07 21 26 00-0023 Cellulose Blown-In Insulation (07 21 26)</b>					
<b>07 21 26 00-0024 Attic, Cellulose Blown-In Insulation (07 21 26 00-0023)</b>					
07 21 26 00-0025	SF		3-3/4" Thick, R-13 Attic, Cellulose Blown In Insulation.....	1.36	1.08
07 21 26 00-0026	SF		5-1/2" Thick, R-19 Attic, Cellulose Blown In Insulation.....	1.60	1.18
07 21 26 00-0027	SF		6-1/4" Thick, R-22 Attic, Cellulose Blown In Insulation.....	1.79	1.29
07 21 26 00-0028	SF		7-3/4" Thick, R-28 Attic, Cellulose Blown In Insulation.....	2.07	1.40
07 21 26 00-0029	SF		8-1/2" Thick, R-30 Attic, Cellulose Blown In Insulation.....	2.11	1.40
07 21 26 00-0030	SF		10-1/2" Thick, R-38 Attic, Cellulose Blown In Insulation.....	2.44	1.51
07 21 26 00-0031	SF		11" Thick, R-40 Attic, Cellulose Blown In Insulation.....	2.50	1.51
07 21 26 00-0032	SF		13-3/4" Thick, R-50 Attic, Cellulose Blown In Insulation.....	2.88	1.62
07 21 26 00-0033	SF		16-1/2" Thick, R-60 Attic, Cellulose Blown In Insulation.....	3.27	1.73
<b>07 21 26 00-0034 New Wall, Cellulose Blown-In Insulation (07 21 26 00-0023)</b>					
07 21 26 00-0035	SF		3-1/2" Thick, R-13 New Wall, Cellulose Blown In Insulation .....	1.75	1.08
07 21 26 00-0036	SF		5-1/2" Thick, R-20 New Wall, Cellulose Blown In Insulation .....	2.30	1.29
07 21 26 00-0037	SF		7-1/4" Thick, R-27 New Wall, Cellulose Blown In Insulation .....	2.69	1.40
07 21 26 00-0038	SF		9-1/4" Thick, R-34 New Wall, Cellulose Blown In Insulation .....	3.16	1.51
<b>07 21 26 00-0039 Existing Wall, Cellulose Blown-In Insulation (07 21 26 00-0023)</b>					
Note: Includes drilling. Excludes patching.					
07 21 26 00-0040	SF		3-1/2" Thick, R-13 Existing Wall, Cellulose Blown In Insulation .....	1.67	1.08
07 21 26 00-0041	SF		5-1/2" Thick, R-20 Existing Wall, Cellulose Blown In Insulation .....	2.22	1.29
07 21 26 00-0042	SF		7-1/4" Thick, R-27 Existing Wall, Cellulose Blown In Insulation .....	2.61	1.40
07 21 26 00-0043	SF		9-1/4" Thick, R-34 Existing Wall, Cellulose Blown In Insulation .....	3.08	1.51
<b>07 21 29 Sprayed Insulation (07 21)</b>					
<b>07 21 29 00-0001 Fiber Sprayed On Insulation (07 21 29)</b>					
07 21 29 00-0002	SF		1" Spray, R2.7 Perlite Insulation .....	1.94	0.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 21 29 00-0003 SF 1" Spray, R3.7 Fibrous/Cementitious Insulation .....	1.42	0.58
<b>07 21 29 00-0004 Cellulose Sprayed On Insulation</b> (07 21 29)		
07 21 29 00-0005 SF 1" Thick - Cellulose Spray-on Insulation .....	2.72	0.58
<b>07 21 53 Reflective Insulation</b> (07 21)		
<b>07 21 53 00-0001 Reflective Barrier Insulation (Foil - Single Bubble - Foil)</b> (07 21 53)		
07 21 53 00-0002 SF 3/16" Nominal Thickness, Reflective Barrier Insulation, With Single Bubble Air Space .....	0.90	
<b>07 22 Roof And Deck Insulation</b> (07 20)		
<b>07 22 16 Roof Board Insulation</b> (07 22)		
Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements. Types are stock sizes set in cold applied adhesive. Apply modifiers for specified alternate attachment.		
<b>07 22 16 00-0001 Rigid Board Roofing Insulation</b> (07 22 16)		
<b>07 22 16 00-0002 High-Density Fiberboard, Roof Board Insulation</b> (07 22 16 00-0001)		
07 22 16 00-0003 SF 1/2" Thick, R1.3, High-Density Fiberboard, Roof Board Insulation .....	1.61	
<i>For Hot-Mopped, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.20	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.33	
07 22 16 00-0004 SF 25/32" Thick, R1.9, High-Density Fiberboard, Roof Board Insulation .....	1.85	
<i>For Hot-Mopped, Deduct</i>	-0.14	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.34	
07 22 16 00-0005 SF 1" Thick, R2.5, High-Density Fiberboard, Roof Board Insulation .....	2.10	
<i>For Hot-Mopped, Deduct</i>	-0.14	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.23	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.36	
07 22 16 00-0006 SF 1-1/2" Thick, R3.8, High-Density Fiberboard, Roof Board Insulation .....	2.56	
<i>For Hot-Mopped, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Concrete, Add</i>	0.25	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.40	
07 22 16 00-0007 SF 2" Thick, R5, High-Density Fiberboard, Roof Board Insulation .....	3.01	
<i>For Hot-Mopped, Deduct</i>	-0.12	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Concrete, Add</i>	0.28	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.44	
<b>07 22 16 00-0008 Wood Fiber (Cellulosic-Fiber), Roof Board Insulation</b> (07 22 16 00-0001)		
07 22 16 00-0009 SF 1/2" Thick, R1.3, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation.....	1.72	
<i>For Hot-Mopped, Deduct</i>	-0.14	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.23	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.36	
07 22 16 00-0010 SF 1" Thick, R2.6, Wood Fiber (Cellulosic-Fiber), Roof Board Insulation.....	2.02	
<i>For Hot-Mopped, Deduct</i>	-0.14	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.23	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.36	
<b>07 22 16 00-0011 Perlite, Roof Board Insulation</b> (07 22 16 00-0001)		
07 22 16 00-0012 SF 1/2" Thick, R1.32, Perlite, Roof Board Insulation.....	1.55	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.16	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.29	
07 22 16 00-0013 SF 3/4" Thick, R2.08, Perlite, Roof Board Insulation.....	1.69	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.16	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.29	
07 22 16 00-0014 SF 1" Thick, R2.78, Perlite, Roof Board Insulation.....	1.86	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.16	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.29	
07 22 16 00-0015 SF 1-1/2" Thick, R4.17, Perlite, Roof Board Insulation.....	2.28	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Concrete, Add</i>	0.15	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.30	

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 20</b>	<b>Thermal Protection</b>
<b>07 22</b>	<b>Roof And Deck Insulation</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0016 SF 2" Thick, R5.56, Perlite, Roof Board Insulation .....	2.55	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Concrete, Add</i>	0.15	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.31	
<b>07 22 16 00-0017 Basalt Mineral Wool, Roof Board Insulation (07 22 16 00-0001)</b>		
07 22 16 00-0018 SF 1" Thick, R3.5, Basalt Mineral Wool, Roof Board Insulation .....	2.09	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.16	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.29	
07 22 16 00-0019 SF 2" Thick, R7.4, Basalt Mineral Wool, Roof Board Insulation .....	2.76	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Concrete, Add</i>	0.15	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.31	
07 22 16 00-0020 SF 3" Thick, R11.1, Basalt Mineral Wool, Roof Board Insulation .....	3.54	
<i>For Hot-Mopped, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.37	
<b>07 22 16 00-0021 Foam Glass (Cellular Glass), Roof Board Insulation (07 22 16 00-0001)</b>		
07 22 16 00-0022 SF 1-1/2" Thick, R5.16, Foam Glass (Cellular Glass), Roof Board Insulation .....	3.75	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Concrete, Add</i>	0.15	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.30	
07 22 16 00-0023 SF 2" Thick, R6.88, Foam Glass (Cellular Glass), Roof Board Insulation .....	4.40	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Concrete, Add</i>	0.15	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.31	
07 22 16 00-0024 SF 2-3/4" Thick, R8.17, Foam Glass (Cellular Glass), Roof Board Insulation .....	5.68	
<i>For Hot-Mopped, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.37	
07 22 16 00-0025 SF 3-1/2" Thick, R12.04, Foam Glass (Cellular Glass), Roof Board Insulation .....	6.96	
<i>For Hot-Mopped, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.03	
<i>For Mechanically Fastened To Concrete, Add</i>	0.26	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.38	
<b>07 22 16 00-0026 Molded Expanded Polystyrene, Roof Board Insulation (07 22 16 00-0001)</b>		
07 22 16 00-0027 SF 3/8" Thick, R1.44, Molded Expanded Polystyrene, Roof Board Insulation (MEPS) .....	1.57	
<i>For Loose-Laid, Deduct</i>	-0.83	
<i>For Hot-Mopped, Deduct</i>	-0.14	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.34	
07 22 16 00-0028 SF 1/2" Thick, R1.93, Molded Expanded Polystyrene, Roof Board Insulation (MEPS) .....	1.63	
<i>For Loose-Laid, Deduct</i>	-0.83	
<i>For Hot-Mopped, Deduct</i>	-0.14	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.34	
07 22 16 00-0029 SF 3/4" Thick, R2.89, Molded Expanded Polystyrene, Roof Board Insulation (MEPS) .....	1.79	
<i>For Loose-Laid, Deduct</i>	-0.83	
<i>For Hot-Mopped, Deduct</i>	-0.14	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.34	
07 22 16 00-0030 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Roof Board Insulation (MEPS) .....	1.95	
<i>For Loose-Laid, Deduct</i>	-0.84	
<i>For Hot-Mopped, Deduct</i>	-0.14	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.34	
07 22 16 00-0031 SF 2" Thick, R7.70, Molded Expanded Polystyrene, Roof Board Insulation (MEPS) .....	2.58	
<i>For Loose-Laid, Deduct</i>	-0.85	
<i>For Hot-Mopped, Deduct</i>	-0.14	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Concrete, Add</i>	0.20	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.36	
07 22 16 00-0032 SF 3" Thick, R11.55, Molded Expanded Polystyrene, Roof Board Insulation (MEPS) .....	3.22	
<i>For Loose-Laid, Deduct</i>	-0.86	
<i>For Hot-Mopped, Deduct</i>	-0.14	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.26	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0033 SF 4" Thick, R15.40, Molded Expanded Polystyrene, Roof Board Insulation (MEPS) .....	3.86	
<i>For Loose-Laid, Deduct</i>	-0.88	
<i>For Hot-Mopped, Deduct</i>	-0.14	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.03	
<i>For Mechanically Fastened To Concrete, Add</i>	0.32	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.47	
07 22 16 00-0034 SF 5" Thick, R19.25, Molded Expanded Polystyrene, Roof Board Insulation (MEPS) .....	4.49	
<i>For Loose-Laid, Deduct</i>	-0.89	
<i>For Hot-Mopped, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.04	
<i>For Mechanically Fastened To Concrete, Add</i>	0.40	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.53	
07 22 16 00-0035 SF 6" Thick, R23.1, Molded Expanded Polystyrene, Roof Board Insulation (MEPS) .....	5.12	
<i>For Loose-Laid, Deduct</i>	-0.90	
<i>For Hot-Mopped, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.29	
<i>For Mechanically Fastened To Concrete, Add</i>	0.65	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.61	
<b>07 22 16 00-0036 Extruded Polystyrene, Roof Board Insulation (07 22 16 00-0001)</b>		
Note: 15 PSI compressive strength.		
07 22 16 00-0037 SF 3/4" Thick, R3.7, Extruded Polystyrene, Roof Board Insulation .....	1.94	
<i>For Loose-Laid, Deduct</i>	-0.76	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.16	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.29	
<i>For 25 PSI Compressive Strength, Add</i>	0.18	
<i>For 40 PSI Compressive Strength, Add</i>	0.43	
<i>For 60 PSI Compressive Strength, Add</i>	0.69	
<i>For 115 PSI Compressive Strength, Add</i>	2.96	
07 22 16 00-0038 SF 1" Thick, R5.0, Extruded Polystyrene, Roof Board Insulation .....	2.03	
<i>For Loose-Laid, Deduct</i>	-0.77	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.16	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.29	
<i>For 25 PSI Compressive Strength, Add</i>	0.19	
<i>For 40 PSI Compressive Strength, Add</i>	0.46	
<i>For 60 PSI Compressive Strength, Add</i>	0.74	
<i>For 115 PSI Compressive Strength, Add</i>	3.17	
07 22 16 00-0039 SF 1-1/2" Thick, R7.5, Extruded Polystyrene, Roof Board Insulation .....	2.45	
<i>For Loose-Laid, Deduct</i>	-0.77	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Concrete, Add</i>	0.14	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.29	
<i>For 25 PSI Compressive Strength, Add</i>	0.26	
<i>For 40 PSI Compressive Strength, Add</i>	0.62	
<i>For 60 PSI Compressive Strength, Add</i>	0.98	
<i>For 100 PSI Compressive Strength, Add</i>	1.26	
<i>For 115 PSI Compressive Strength, Add</i>	4.25	
07 22 16 00-0040 SF 2" Thick, R10.0, Extruded Polystyrene, Roof Board Insulation .....	2.88	
<i>For Loose-Laid, Deduct</i>	-0.78	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Concrete, Add</i>	0.15	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.31	
<i>For 25 PSI Compressive Strength, Add</i>	0.32	
<i>For 40 PSI Compressive Strength, Add</i>	0.77	
<i>For 60 PSI Compressive Strength, Add</i>	1.22	
<i>For 115 PSI Compressive Strength, Add</i>	5.30	
07 22 16 00-0041 SF 2-1/2" Thick, R12.5, Extruded Polystyrene, Roof Board Insulation .....	3.30	
<i>For Loose-Laid, Deduct</i>	-0.78	
<i>For Hot-Mopped, Deduct</i>	-0.16	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.20	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.34	
<i>For 25 PSI Compressive Strength, Add</i>	0.39	
<i>For 40 PSI Compressive Strength, Add</i>	0.93	
<i>For 60 PSI Compressive Strength, Add</i>	1.46	
<i>For 100 PSI Compressive Strength, Add</i>	1.88	
<i>For 115 PSI Compressive Strength, Add</i>	6.38	
07 22 16 00-0042 SF 3" Thick, R15.0, Extruded Polystyrene, Roof Board Insulation .....	3.74	
<i>For Loose-Laid, Deduct</i>	-0.79	
<i>For Hot-Mopped, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.21	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.37	
<i>For 25 PSI Compressive Strength, Add</i>	0.46	
<i>For 40 PSI Compressive Strength, Add</i>	1.09	
<i>For 60 PSI Compressive Strength, Add</i>	1.71	
<i>For 115 PSI Compressive Strength, Add</i>	7.46	

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof And Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0043 SF 4" Thick, R20.0, Extruded Polystyrene, Roof Board Insulation .....	4.17	
For Loose-Laid, Deduct	-0.80	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.03	
For Mechanically Fastened To Concrete, Add	0.26	
For Mechanically Fastened To Gypsum, Add	0.41	
For 25 PSI Compressive Strength, Add	0.52	
For 40 PSI Compressive Strength, Add	1.25	
For 60 PSI Compressive Strength, Add	1.95	
For 115 PSI Compressive Strength, Add	8.52	
<b>07 22 16 00-0044 Polyisocyanurate Board Roofing Insulation (07 22 16 00-0001)</b>		
07 22 16 00-0045 SF 3/4" Thick, R4.3, Polyisocyanurate, Roof Board Insulation .....	1.76	
For Loose-Laid, Deduct	-0.76	
For Hot-Mopped, Deduct	-0.16	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.15	
For Mechanically Fastened To Concrete, Add	0.16	
For Mechanically Fastened To Gypsum, Add	0.29	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.09	
07 22 16 00-0046 SF 1" Thick, R5.7, Polyisocyanurate, Roof Board Insulation .....	1.82	
For Loose-Laid, Deduct	-0.77	
For Hot-Mopped, Deduct	-0.16	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.15	
For Mechanically Fastened To Concrete, Add	0.16	
For Mechanically Fastened To Gypsum, Add	0.29	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.10	
07 22 16 00-0047 SF 1-1/2" Thick, R8.6, Polyisocyanurate, Roof Board Insulation .....	1.92	
For Loose-Laid, Deduct	-0.77	
For Hot-Mopped, Deduct	-0.16	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.13	
For Mechanically Fastened To Concrete, Add	0.15	
For Mechanically Fastened To Gypsum, Add	0.30	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.11	
07 22 16 00-0048 SF 2" Thick, R11.4, Polyisocyanurate, Roof Board Insulation .....	2.16	
For Loose-Laid, Deduct	-0.78	
For Hot-Mopped, Deduct	-0.16	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.13	
For Mechanically Fastened To Concrete, Add	0.15	
For Mechanically Fastened To Gypsum, Add	0.31	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.13	
07 22 16 00-0049 SF 2-1/2" Thick, R14.4, Polyisocyanurate, Roof Board Insulation .....	2.41	
For Loose-Laid, Deduct	-0.78	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.08	
For Mechanically Fastened To Concrete, Add	0.20	
For Mechanically Fastened To Gypsum, Add	0.34	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.16	
07 22 16 00-0050 SF 3" Thick, R17.4, Polyisocyanurate, Roof Board Insulation .....	2.65	
For Loose-Laid, Deduct	-0.79	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.08	
For Mechanically Fastened To Concrete, Add	0.21	
For Mechanically Fastened To Gypsum, Add	0.37	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.18	
07 22 16 00-0051 SF 3-1/2" Thick, R20.5, Polyisocyanurate, Roof Board Insulation .....	2.92	
For Loose-Laid, Deduct	-0.79	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.03	
For Mechanically Fastened To Concrete, Add	0.26	
For Mechanically Fastened To Gypsum, Add	0.38	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.20	
07 22 16 00-0052 SF 4" Thick, R23.6, Polyisocyanurate, Roof Board Insulation .....	3.15	
For Loose-Laid, Deduct	-0.80	
For Hot-Mopped, Deduct	-0.15	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.03	
For Mechanically Fastened To Concrete, Add	0.26	
For Mechanically Fastened To Gypsum, Add	0.41	
For Foil Facer, Add	0.36	
For 25 PSI Compressive Strength, Add	0.23	
<b>07 22 16 00-0053 High-Density Polyisocyanurate Cover Board And Roofing Insulation (07 22 16 00-0001)</b>		
07 22 16 00-0054 SF 1/2" Thick, R2.5, High-Density Polyisocyanurate Cover Board And Roofing Insulation .....	1.99	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.15	
For Mechanically Fastened To Concrete, Add	0.20	
For Mechanically Fastened To Gypsum, Add	0.33	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>07 22 16 00-0055 Gypsum-Fiber, Roof Board Insulation (USG Securock)</b> <small>(07 22 16 00-0001)</small>		
07 22 16 00-0056 SF 1/4" Thick, R0.2, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum) .....	1.90	
<i>For Hot-Mopped, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.20	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.33	
07 22 16 00-0057 SF 3/8" Thick, R0.3, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum) .....	2.00	
<i>For Hot-Mopped, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.20	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.33	
07 22 16 00-0058 SF 1/2" Thick, R0.5, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum) .....	2.06	
<i>For Hot-Mopped, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.20	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.33	
07 22 16 00-0059 SF 5/8" Thick, R0.6, Gypsum-Fiber, Roof Board Insulation (USG Securock Gypsum) .....	2.10	
<i>For Hot-Mopped, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.20	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.33	
<b>07 22 16 00-0060 Glass-Mat, Roof Board Insulation (USG Securock)</b> <small>(07 22 16 00-0001)</small>		
07 22 16 00-0061 SF 1/4" Thick, R0.36, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat) .....	1.86	
<i>For Hot-Mopped, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.20	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.33	
07 22 16 00-0062 SF 1/2" Thick, R0.53, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat) .....	2.01	
<i>For Hot-Mopped, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.20	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.33	
07 22 16 00-0063 SF 5/8" Thick, R0.54, Glass-Mat, Roof Board Insulation (USG Securock Glass-Mat) .....	2.05	
<i>For Hot-Mopped, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.20	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.33	
<b>07 22 16 00-0064 Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation</b> <small>(07 22 16 00-0001)</small>		
<i>Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.</i>		
07 22 16 00-0065 SF 1.5" Thick, R6.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	3.13	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Concrete, Add</i>	0.28	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.44	
07 22 16 00-0066 SF 2" Thick, R9.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	3.27	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.13	
<i>For Mechanically Fastened To Concrete, Add</i>	0.28	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.44	
07 22 16 00-0067 SF 2.5" Thick, R12.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	3.47	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.34	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.48	
07 22 16 00-0068 SF 3" Thick, R15.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	3.59	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.34	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.50	
07 22 16 00-0069 SF 3.5" Thick, R18.0, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	3.87	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.03	
<i>For Mechanically Fastened To Concrete, Add</i>	0.40	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.52	
07 22 16 00-0070 SF 4" Thick, R21.1, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	3.99	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.03	
<i>For Mechanically Fastened To Concrete, Add</i>	0.40	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.55	
07 22 16 00-0071 SF 4.5" Thick, R24.2, Polyisocyanurate And Oriented Strand Board, Nailbase Roof Board Insulation.....	4.21	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.04	
<i>For Mechanically Fastened To Concrete, Add</i>	0.51	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.64	
<b>07 22 16 00-0072 Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation</b> <small>(07 22 16 00-0001)</small>		
<i>Note: Includes a polyisocyanurate foam core bonded to a 7/16" oriented strand board (OSB) facer.</i>		
07 22 16 00-0073 SF 2.5" Thick, R5.7, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation .....	3.15	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.33	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.47	

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof And Deck Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0074	SF		3" Thick, R8.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation.....	3.40	
			<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
			<i>For Mechanically Fastened To Concrete, Add</i>	0.33	
			<i>For Mechanically Fastened To Gypsum, Add</i>	0.49	
07 22 16 00-0075	SF		3.5" Thick, R11.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation.....	3.71	
			<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.03	
			<i>For Mechanically Fastened To Concrete, Add</i>	0.39	
			<i>For Mechanically Fastened To Gypsum, Add</i>	0.51	
07 22 16 00-0076	SF		4" Thick, R14.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation.....	3.90	
			<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.03	
			<i>For Mechanically Fastened To Concrete, Add</i>	0.39	
			<i>For Mechanically Fastened To Gypsum, Add</i>	0.54	
07 22 16 00-0077	SF		4.5" Thick, R17.4, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation.....	4.15	
			<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.04	
			<i>For Mechanically Fastened To Concrete, Add</i>	0.47	
			<i>For Mechanically Fastened To Gypsum, Add</i>	0.60	
07 22 16 00-0078	SF		5" Thick, R20.5, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation.....	4.42	
			<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.04	
			<i>For Mechanically Fastened To Concrete, Add</i>	0.47	
			<i>For Mechanically Fastened To Gypsum, Add</i>	0.60	
07 22 16 00-0079	SF		5.5" Thick, R23.6, Polyisocyanurate And Oriented Strand Board With Air Vent Spacer Strips, Nailbase Roof Board Insulation.....	4.93	
			<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.29	
			<i>For Mechanically Fastened To Concrete, Add</i>	0.76	
			<i>For Mechanically Fastened To Gypsum, Add</i>	0.72	
07 22 16 00-0080			<b>Rigid Board Tapered Roofing Insulation</b> <small>(07 22 16)</small> Note: Includes tapered board and filler board required to maintain slope starting at 1/2" minimum thickness. Excludes base layer of board, if required. Average thickness and average R-value of tapered system excludes thickness and R-value of base layer insulation and/or coverboard.		
07 22 16 00-0081			<b>Tapered Polyisocyanurate Board</b> <small>(07 22 16 00-0080)</small> Note: Includes polyurethane adhesive.		
07 22 16 00-0082			<b>1/8" Slope, Tapered Polyisocyanurate Board</b> <small>(07 22 16 00-0081)</small>		
07 22 16 00-0083	SF		2.25" Average Thickness (12.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board.....	3.05	
			<i>For 25 PSI Compressive Strength, Add</i>	0.18	
			<i>For Hot-Mopped, Deduct</i>	-0.12	
			<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.07	
			<i>For Mechanically Fastened To Concrete, Add</i>	0.24	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	0.68	
07 22 16 00-0084	SF		2.75" Average Thickness (15.7 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board.....	4.38	
			<i>For 25 PSI Compressive Strength, Add</i>	0.21	
			<i>For Hot-Mopped, Deduct</i>	-0.22	
			<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
			<i>For Mechanically Fastened To Concrete, Add</i>	0.48	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.18	
07 22 16 00-0085	SF		3.25" Average Thickness (18.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board.....	4.70	
			<i>For 25 PSI Compressive Strength, Add</i>	0.25	
			<i>For Hot-Mopped, Deduct</i>	-0.22	
			<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
			<i>For Mechanically Fastened To Concrete, Add</i>	0.48	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.20	
07 22 16 00-0086	SF		3.75" Average Thickness (21.4 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board.....	5.02	
			<i>For 25 PSI Compressive Strength, Add</i>	0.28	
			<i>For Hot-Mopped, Deduct</i>	-0.22	
			<i>For Mechanically Fastened To Wood Or Steel, Add</i>	-0.03	
			<i>For Mechanically Fastened To Concrete, Add</i>	0.53	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.21	
07 22 16 00-0087	SF		4.25" Average Thickness (24.2 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board.....	5.34	
			<i>For 25 PSI Compressive Strength, Add</i>	0.31	
			<i>For Hot-Mopped, Deduct</i>	-0.22	
			<i>For Mechanically Fastened To Wood Or Steel, Add</i>	-0.03	
			<i>For Mechanically Fastened To Concrete, Add</i>	0.53	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.24	
07 22 16 00-0088	SF		4.75" Average Thickness (27.1 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board.....	6.66	
			<i>For 25 PSI Compressive Strength, Add</i>	0.34	
			<i>For Hot-Mopped, Deduct</i>	-0.34	
			<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.04	
			<i>For Mechanically Fastened To Concrete, Add</i>	0.85	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
07 22 16 00-0089	SF		5.25" Average Thickness (30.0 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board.....	6.98	
			<i>For 25 PSI Compressive Strength, Add</i>	0.38	
			<i>For Hot-Mopped, Deduct</i>	-0.34	
			<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.04	
			<i>For Mechanically Fastened To Concrete, Add</i>	0.85	
			<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0090 SF 5.75" Average Thickness (32.8 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board .....	7.30	
<i>For 25 PSI Compressive Strength, Add</i>	0.41	
<i>For Hot-Mopped, Deduct</i>	-0.34	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.29	
<i>For Mechanically Fastened To Concrete, Add</i>	1.10	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.87	
07 22 16 00-0091 SF 6.25" Average Thickness (35.6 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board .....	7.62	
<i>For 25 PSI Compressive Strength, Add</i>	0.44	
<i>For Hot-Mopped, Deduct</i>	-0.34	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.29	
<i>For Mechanically Fastened To Concrete, Add</i>	1.10	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.87	
07 22 16 00-0092 SF 6.75" Average Thickness (38.5 Average R-Value), 1/8" Slope, Tapered Polyisocyanurate Board .....	8.95	
<i>For 25 PSI Compressive Strength, Add</i>	0.47	
<i>For Hot-Mopped, Deduct</i>	-0.47	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.32	
<i>For Mechanically Fastened To Concrete, Add</i>	1.38	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.52	
<b>07 22 16 00-0093 1/4" Slope, Tapered Polyisocyanurate Board</b> (07 22 16 00-0081)		
07 22 16 00-0094 SF 2" Average Thickness (11.4 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board .....	2.89	
<i>For 25 PSI Compressive Strength, Add</i>	0.17	
<i>For Hot-Mopped, Deduct</i>	-0.12	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.07	
<i>For Mechanically Fastened To Concrete, Add</i>	0.24	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	0.68	
07 22 16 00-0095 SF 3" Average Thickness (17.1 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board .....	4.54	
<i>For 25 PSI Compressive Strength, Add</i>	0.23	
<i>For Hot-Mopped, Deduct</i>	-0.22	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.48	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.18	
07 22 16 00-0096 SF 4" Average Thickness (22.8 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board .....	5.18	
<i>For 25 PSI Compressive Strength, Add</i>	0.29	
<i>For Hot-Mopped, Deduct</i>	-0.22	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	-0.03	
<i>For Mechanically Fastened To Concrete, Add</i>	0.53	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.21	
07 22 16 00-0097 SF 5" Average Thickness (28.5 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board .....	6.82	
<i>For 25 PSI Compressive Strength, Add</i>	0.36	
<i>For Hot-Mopped, Deduct</i>	-0.34	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.04	
<i>For Mechanically Fastened To Concrete, Add</i>	0.85	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
07 22 16 00-0098 SF 6" Average Thickness (34.2 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board .....	7.46	
<i>For 25 PSI Compressive Strength, Add</i>	0.42	
<i>For Hot-Mopped, Deduct</i>	-0.34	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.29	
<i>For Mechanically Fastened To Concrete, Add</i>	1.10	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.87	
07 22 16 00-0099 SF 7" Average Thickness (39.9 Average R-Value), 1/4" Slope, Tapered Polyisocyanurate Board .....	9.11	
<i>For 25 PSI Compressive Strength, Add</i>	0.49	
<i>For Hot-Mopped, Deduct</i>	-0.47	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.32	
<i>For Mechanically Fastened To Concrete, Add</i>	1.38	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.52	
<b>07 22 16 00-0100 1/2" Slope, Tapered Polyisocyanurate Board</b> (07 22 16 00-0081)		
07 22 16 00-0101 SF 3.5" Average Thickness (20.0 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board .....	4.86	
<i>For 25 PSI Compressive Strength, Add</i>	0.26	
<i>For Hot-Mopped, Deduct</i>	-0.22	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.48	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.20	
07 22 16 00-0102 SF 5.5" Average Thickness (31.4 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board .....	7.14	
<i>For 25 PSI Compressive Strength, Add</i>	0.39	
<i>For Hot-Mopped, Deduct</i>	-0.34	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.04	
<i>For Mechanically Fastened To Concrete, Add</i>	0.85	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
07 22 16 00-0103 SF 7.5" Average Thickness (42.8 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board .....	9.43	
<i>For 25 PSI Compressive Strength, Add</i>	0.52	
<i>For Hot-Mopped, Deduct</i>	-0.47	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.32	
<i>For Mechanically Fastened To Concrete, Add</i>	1.38	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.52	
07 22 16 00-0104 SF 9.5" Average Thickness (54.2 Average R-Value), 1/2" Slope, Tapered Polyisocyanurate Board .....	11.72	
<i>For 25 PSI Compressive Strength, Add</i>	0.65	
<i>For Hot-Mopped, Deduct</i>	-0.59	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.64	
<i>For Mechanically Fastened To Concrete, Add</i>	1.95	

## 07 Thermal And Moisture Protection

## 07 20 Thermal Protection

## 07 22 Roof And Deck Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0105			Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0080) Note: Includes polyurethane adhesive.		
07 22 16 00-0106			1/8" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0105)		
07 22 16 00-0107	SF		2.25" Average Thickness (10.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....	2.69	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.07	
			For Mechanically Fastened To Concrete, Add	0.24	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	0.68	
07 22 16 00-0108	SF		2.75" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....	4.02	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.08	
			For Mechanically Fastened To Concrete, Add	0.48	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.18	
07 22 16 00-0109	SF		3.25" Average Thickness (14.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....	4.26	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.08	
			For Mechanically Fastened To Concrete, Add	0.48	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.20	
07 22 16 00-0110	SF		3.75" Average Thickness (16.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....	4.50	
			For Mechanically Fastened To Wood Or Steel, Add	-0.03	
			For Mechanically Fastened To Concrete, Add	0.53	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.21	
07 22 16 00-0111	SF		4.25" Average Thickness (19.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....	4.74	
			For Mechanically Fastened To Wood Or Steel, Add	-0.03	
			For Mechanically Fastened To Concrete, Add	0.53	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.24	
07 22 16 00-0112	SF		4.75" Average Thickness (21.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....	6.07	
			For Mechanically Fastened To Wood Or Steel, Add	0.04	
			For Mechanically Fastened To Concrete, Add	0.85	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	
07 22 16 00-0113	SF		5.25" Average Thickness (23.63 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....	6.31	
			For Mechanically Fastened To Wood Or Steel, Add	0.04	
			For Mechanically Fastened To Concrete, Add	0.85	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	
07 22 16 00-0114	SF		5.75" Average Thickness (25.88 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....	6.55	
			For Mechanically Fastened To Wood Or Steel, Add	0.29	
			For Mechanically Fastened To Concrete, Add	1.10	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.87	
07 22 16 00-0115	SF		6.25" Average Thickness (28.13 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....	6.79	
			For Mechanically Fastened To Wood Or Steel, Add	0.29	
			For Mechanically Fastened To Concrete, Add	1.10	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.87	
07 22 16 00-0116	SF		6.75" Average Thickness (30.38 Average R-Value), 1/8" Slope, Tapered Expanded Polystyrene Board (EPS) .....	8.12	
			For Mechanically Fastened To Wood Or Steel, Add	0.32	
			For Mechanically Fastened To Concrete, Add	1.38	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.52	
07 22 16 00-0117			1/4" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0105)		
07 22 16 00-0118	SF		2" Average Thickness (9 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) .....	2.57	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.07	
			For Mechanically Fastened To Concrete, Add	0.24	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	0.68	
07 22 16 00-0119	SF		3" Average Thickness (13.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) .....	4.14	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.08	
			For Mechanically Fastened To Concrete, Add	0.48	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.18	
07 22 16 00-0120	SF		4" Average Thickness (18 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) .....	4.62	
			For Mechanically Fastened To Wood Or Steel, Add	-0.03	
			For Mechanically Fastened To Concrete, Add	0.53	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.21	
07 22 16 00-0121	SF		5" Average Thickness (22.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) .....	6.19	
			For Mechanically Fastened To Wood Or Steel, Add	0.04	
			For Mechanically Fastened To Concrete, Add	0.85	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	
07 22 16 00-0122	SF		6" Average Thickness (27 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) .....	6.67	
			For Mechanically Fastened To Wood Or Steel, Add	0.29	
			For Mechanically Fastened To Concrete, Add	1.10	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.87	
07 22 16 00-0123	SF		7" Average Thickness (31.5 Average R-Value), 1/4" Slope, Tapered Expanded Polystyrene Board (EPS) .....	8.24	
			For Mechanically Fastened To Wood Or Steel, Add	0.32	
			For Mechanically Fastened To Concrete, Add	1.38	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.52	
07 22 16 00-0124			1/2" Slope, Tapered Expanded Polystyrene Board (EPS) (07 22 16 00-0105)		
07 22 16 00-0125	SF		3.5" Average Thickness (15.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) .....	4.38	
			For Mechanically Fastened To Wood Or Steel, Deduct	-0.08	
			For Mechanically Fastened To Concrete, Add	0.48	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.20	
07 22 16 00-0126	SF		5.5" Average Thickness (24.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) .....	6.43	
			For Mechanically Fastened To Wood Or Steel, Add	0.04	
			For Mechanically Fastened To Concrete, Add	0.85	
			For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0127 SF 7.5" Average Thickness (33.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) .....	8.48	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.32	
<i>For Mechanically Fastened To Concrete, Add</i>	1.38	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.52	
07 22 16 00-0128 SF 9.5" Average Thickness (42.75 Average R-Value), 1/2" Slope, Tapered Expanded Polystyrene Board (EPS) .....	10.77	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.64	
<i>For Mechanically Fastened To Concrete, Add</i>	1.95	
<b>07 22 16 00-0129 Tapered Extruded Polystyrene Board (XEPS)</b> <small>(07 22 16 00-0080)</small>		
<i>Note: Includes polyurethane adhesive.</i>		
<b>07 22 16 00-0130 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS)</b> <small>(07 22 16 00-0129)</small>		
07 22 16 00-0131 SF 2.25" Average Thickness (12.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	2.98	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.07	
<i>For Mechanically Fastened To Concrete, Add</i>	0.24	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	0.68	
07 22 16 00-0132 SF 2.75" Average Thickness (15.125 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	4.30	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.48	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.18	
07 22 16 00-0133 SF 3.25" Average Thickness (17.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	4.61	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.48	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.20	
07 22 16 00-0134 SF 3.75" Average Thickness (20.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	4.91	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	-0.03	
<i>For Mechanically Fastened To Concrete, Add</i>	0.53	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.21	
07 22 16 00-0135 SF 4.25" Average Thickness (23.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	5.22	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	-0.03	
<i>For Mechanically Fastened To Concrete, Add</i>	0.53	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.24	
07 22 16 00-0136 SF 4.75" Average Thickness (26.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	6.54	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.04	
<i>For Mechanically Fastened To Concrete, Add</i>	0.85	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
07 22 16 00-0137 SF 5.25" Average Thickness (28.88 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	6.85	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.04	
<i>For Mechanically Fastened To Concrete, Add</i>	0.85	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
07 22 16 00-0138 SF 5.75" Average Thickness (31.63 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	7.15	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.29	
<i>For Mechanically Fastened To Concrete, Add</i>	1.10	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.87	
07 22 16 00-0139 SF 6.25" Average Thickness (34.38 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	7.46	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.29	
<i>For Mechanically Fastened To Concrete, Add</i>	1.10	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.87	
07 22 16 00-0140 SF 6.75" Average Thickness (37.13 Average R-Value), 1/8" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	8.78	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.32	
<i>For Mechanically Fastened To Concrete, Add</i>	1.38	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.52	
<b>07 22 16 00-0141 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS)</b> <small>(07 22 16 00-0129)</small>		
07 22 16 00-0142 SF 2" Average Thickness (11 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	2.83	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.07	
<i>For Mechanically Fastened To Concrete, Add</i>	0.24	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	0.68	
07 22 16 00-0143 SF 3" Average Thickness (16.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	4.46	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.48	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.18	
07 22 16 00-0144 SF 4" Average Thickness (22 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	5.07	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	-0.03	
<i>For Mechanically Fastened To Concrete, Add</i>	0.53	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.21	
07 22 16 00-0145 SF 5" Average Thickness (27.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	6.70	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.04	
<i>For Mechanically Fastened To Concrete, Add</i>	0.85	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
07 22 16 00-0146 SF 6" Average Thickness (33 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	7.31	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.29	
<i>For Mechanically Fastened To Concrete, Add</i>	1.10	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.87	
07 22 16 00-0147 SF 7" Average Thickness (38.5 Average R-Value), 1/4" Slope, Tapered Extruded Polystyrene Board (XEPS) .....	8.93	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.32	
<i>For Mechanically Fastened To Concrete, Add</i>	1.38	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.52	
<b>07 22 16 00-0148 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS)</b> <small>(07 22 16 00-0129)</small>		

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 22 Roof And Deck Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0149 SF 3.5" Average Thickness (19.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS).....	4.76	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.08	
For Mechanically Fastened To Concrete, Add	0.48	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.20	
07 22 16 00-0150 SF 5.5" Average Thickness (30.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS).....	7.00	
For Mechanically Fastened To Wood Or Steel, Add	0.04	
For Mechanically Fastened To Concrete, Add	0.85	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	
07 22 16 00-0151 SF 7.5" Average Thickness (41.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS).....	9.24	
For Mechanically Fastened To Wood Or Steel, Add	0.32	
For Mechanically Fastened To Concrete, Add	1.38	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.52	
07 22 16 00-0152 SF 9.5" Average Thickness (52.25 Average R-Value), 1/2" Slope, Tapered Extruded Polystyrene Board (XEPS).....	11.48	
For Mechanically Fastened To Wood Or Steel, Add	0.64	
For Mechanically Fastened To Concrete, Add	1.95	
<b>07 22 16 00-0153 Tapered Perlite Board</b> <small>(07 22 16 00-0080)</small>		
Note: Includes polyurethane adhesive.		
<b>07 22 16 00-0154 1/8" Slope, Tapered Perlite Board</b> <small>(07 22 16 00-0153)</small>		
07 22 16 00-0155 SF 2.25" Average Thickness (6.26 Average R-Value), 1/8" Slope, Tapered Perlite Board .....	3.88	
For Hot-Mopped, Deduct	-0.12	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.07	
For Mechanically Fastened To Concrete, Add	0.24	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	0.68	
07 22 16 00-0156 SF 2.75" Average Thickness (7.65 Average R-Value), 1/8" Slope, Tapered Perlite Board .....	5.04	
For Hot-Mopped, Deduct	-0.22	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.08	
For Mechanically Fastened To Concrete, Add	0.48	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.18	
07 22 16 00-0157 SF 3.25" Average Thickness (9.04 Average R-Value), 1/8" Slope, Tapered Perlite Board .....	5.54	
For Hot-Mopped, Deduct	-0.22	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.08	
For Mechanically Fastened To Concrete, Add	0.48	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.20	
07 22 16 00-0158 SF 3.75" Average Thickness (10.43 Average R-Value), 1/8" Slope, Tapered Perlite Board .....	6.05	
For Hot-Mopped, Deduct	-0.22	
For Mechanically Fastened To Wood Or Steel, Add	-0.03	
For Mechanically Fastened To Concrete, Add	0.53	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.21	
07 22 16 00-0159 SF 4.25" Average Thickness (11.82 Average R-Value), 1/8" Slope, Tapered Perlite Board .....	6.55	
For Hot-Mopped, Deduct	-0.22	
For Mechanically Fastened To Wood Or Steel, Add	-0.03	
For Mechanically Fastened To Concrete, Add	0.53	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.24	
07 22 16 00-0160 SF 4.75" Average Thickness (13.21 Average R-Value), 1/8" Slope, Tapered Perlite Board .....	7.70	
For Hot-Mopped, Deduct	-0.34	
For Mechanically Fastened To Wood Or Steel, Add	0.04	
For Mechanically Fastened To Concrete, Add	0.85	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	
07 22 16 00-0161 SF 5.25" Average Thickness (14.60 Average R-Value), 1/8" Slope, Tapered Perlite Board .....	8.20	
For Hot-Mopped, Deduct	-0.34	
For Mechanically Fastened To Wood Or Steel, Add	0.04	
For Mechanically Fastened To Concrete, Add	0.85	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.79	
07 22 16 00-0162 SF 5.75" Average Thickness (15.99 Average R-Value), 1/8" Slope, Tapered Perlite Board .....	8.71	
For Hot-Mopped, Deduct	-0.34	
For Mechanically Fastened To Wood Or Steel, Add	0.29	
For Mechanically Fastened To Concrete, Add	1.10	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.87	
07 22 16 00-0163 SF 6.25" Average Thickness (17.38 Average R-Value), 1/8" Slope, Tapered Perlite Board .....	9.21	
For Hot-Mopped, Deduct	-0.34	
For Mechanically Fastened To Wood Or Steel, Add	0.29	
For Mechanically Fastened To Concrete, Add	1.10	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.87	
07 22 16 00-0164 SF 6.75" Average Thickness (18.77 Average R-Value), 1/8" Slope, Tapered Perlite Board .....	10.37	
For Hot-Mopped, Deduct	-0.47	
For Mechanically Fastened To Wood Or Steel, Add	0.32	
For Mechanically Fastened To Concrete, Add	1.38	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	2.52	
<b>07 22 16 00-0165 1/4" Slope, Tapered Perlite Board</b> <small>(07 22 16 00-0153)</small>		
07 22 16 00-0166 SF 2" Average Thickness (5.56 Average R-Value), 1/4" Slope, Tapered Perlite Board .....	3.63	
For Hot-Mopped, Deduct	-0.12	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.07	
For Mechanically Fastened To Concrete, Add	0.24	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	0.68	
07 22 16 00-0167 SF 3" Average Thickness (8.34 Average R-Value), 1/4" Slope, Tapered Perlite Board .....	5.29	
For Hot-Mopped, Deduct	-0.22	
For Mechanically Fastened To Wood Or Steel, Deduct	-0.08	
For Mechanically Fastened To Concrete, Add	0.48	
For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add	1.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 22 16 00-0168 SF 4" Average Thickness (11.12 Average R-Value), 1/4" Slope, Tapered Perlite Board .....	6.30	
<i>For Hot-Mopped, Deduct</i>	-0.22	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	-0.03	
<i>For Mechanically Fastened To Concrete, Add</i>	0.53	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.21	
07 22 16 00-0169 SF 5" Average Thickness (13.9 Average R-Value), 1/4" Slope, Tapered Perlite Board .....	7.95	
<i>For Hot-Mopped, Deduct</i>	-0.34	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.04	
<i>For Mechanically Fastened To Concrete, Add</i>	0.85	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
07 22 16 00-0170 SF 6" Average Thickness (16.68 Average R-Value), 1/4" Slope, Tapered Perlite Board .....	8.96	
<i>For Hot-Mopped, Deduct</i>	-0.34	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.29	
<i>For Mechanically Fastened To Concrete, Add</i>	1.10	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.87	
07 22 16 00-0171 SF 7" Average Thickness (19.46 Average R-Value), 1/4" Slope, Tapered Perlite Board .....	10.62	
<i>For Hot-Mopped, Deduct</i>	-0.47	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.32	
<i>For Mechanically Fastened To Concrete, Add</i>	1.38	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.52	
<b>07 22 16 00-0172 1/2" Slope, Tapered Perlite Board</b> <small>(07 22 16 00-0153)</small>		
07 22 16 00-0173 SF 3.5" Average Thickness (9.73 Average R-Value), 1/2" Slope, Tapered Perlite Board .....	5.79	
<i>For Hot-Mopped, Deduct</i>	-0.22	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.08	
<i>For Mechanically Fastened To Concrete, Add</i>	0.48	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.20	
07 22 16 00-0174 SF 5.5" Average Thickness (15.29 Average R-Value), 1/2" Slope, Tapered Perlite Board .....	8.46	
<i>For Hot-Mopped, Deduct</i>	-0.34	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.04	
<i>For Mechanically Fastened To Concrete, Add</i>	0.85	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	1.79	
07 22 16 00-0175 SF 7.5" Average Thickness (20.85 Average R-Value), 1/2" Slope, Tapered Perlite Board .....	11.13	
<i>For Hot-Mopped, Deduct</i>	-0.47	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.32	
<i>For Mechanically Fastened To Concrete, Add</i>	1.38	
<i>For Mechanically Fastened To Cementitious Wood Fiber Or Gypsum, Add</i>	2.52	
07 22 16 00-0176 SF 9.5" Average Thickness (26.41 Average R-Value), 1/2" Slope, Tapered Perlite Board .....	13.79	
<i>For Hot-Mopped, Deduct</i>	-0.59	
<i>For Mechanically Fastened To Wood Or Steel, Add</i>	0.64	
<i>For Mechanically Fastened To Concrete, Add</i>	1.95	
<b>07 22 16 00-0177 Demolish Rigid Board Roofing Insulation</b> <small>(07 22 16)</small>		
<i>Note: Includes removing any combination of roofing insulation systems and/or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.).</i>		
07 22 16 00-0178 SF Demolish Up To 1/2" Average Thickness, Rigid Board Roofing Insulation .....	0.46	
07 22 16 00-0179 SF Demolish >1/2" To 1" Average Thickness, Rigid Board Roofing Insulation .....	0.47	
07 22 16 00-0180 SF Demolish >1" To 2" Average Thickness, Rigid Board Roofing Insulation .....	0.49	
07 22 16 00-0181 SF Demolish >2" To 3" Average Thickness, Rigid Board Roofing Insulation .....	0.50	
07 22 16 00-0182 SF Demolish >3" To 4" Average Thickness, Rigid Board Roofing Insulation .....	0.51	
07 22 16 00-0183 SF Demolish >4" To 5" Average Thickness, Rigid Board Roofing Insulation .....	0.52	
07 22 16 00-0184 SF Demolish >5" To 6" Average Thickness, Rigid Board Roofing Insulation .....	0.53	
07 22 16 00-0185 SF Demolish >6" To 7" Average Thickness, Rigid Board Roofing Insulation .....	0.55	
07 22 16 00-0186 SF Demolish >7" To 8" Average Thickness, Rigid Board Roofing Insulation .....	0.56	
07 22 16 00-0187 SF Demolish >8" To 9" Average Thickness, Rigid Board Roofing Insulation .....	0.57	
07 22 16 00-0188 SF Demolish >9" To 10" Average Thickness, Rigid Board Roofing Insulation .....	0.59	
07 22 16 00-0189 SF Demolish >10" To 11" Average Thickness, Rigid Board Roofing Insulation .....	0.60	
07 22 16 00-0190 SF Demolish >11" To 12" Average Thickness, Rigid Board Roofing Insulation .....	0.61	
<b>07 24 Exterior Insulation And Finish Systems</b> <small>(07 20)</small>		
<b>07 24 13 Polymer-Based Exterior Insulation And Finish System</b> <small>(07 24)</small>		
07 24 13 00-0001 Exterior Insulation Finishing System (EIFS) <small>(07 24 13)</small>		
07 24 13 00-0002 Insulation For Exterior Insulation Finishing Systems (EIFS) <small>(07 24 13 00-0001)</small>		
07 24 13 00-0003 SF 1" Thick, R3.85, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied .....	2.80	
<i>For Up To 100, Add</i>	0.73	
<i>For &gt;100 To 500, Add</i>	0.37	
<i>For &gt;5,000, Deduct</i>	-0.15	
<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	0.47	
<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	0.82	
07 24 13 00-0004 SF 1-1/2" Thick, R5.78, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied .....	3.12	
<i>For Up To 100, Add</i>	0.74	
<i>For &gt;100 To 500, Add</i>	0.37	
<i>For &gt;5,000, Deduct</i>	-0.15	
<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	0.50	
<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	0.84	

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 24 Exterior Insulation And Finish Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 24 13 00-0005	SF		2" Thick, R7.70, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	3.45	
			<i>For Up To 100, Add</i>	0.75	
			<i>For &gt;100 To 500, Add</i>	0.38	
			<i>For &gt;5,000, Deduct</i>	-0.15	
			<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	0.56	
			<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	0.93	
07 24 13 00-0006	SF		2-1/2" Thick, R9.63, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	3.77	
			<i>For Up To 100, Add</i>	0.76	
			<i>For &gt;100 To 500, Add</i>	0.38	
			<i>For &gt;5,000, Deduct</i>	-0.15	
			<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	0.61	
			<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	0.97	
07 24 13 00-0007	SF		3" Thick, R11.55, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	4.09	
			<i>For Up To 100, Add</i>	0.77	
			<i>For &gt;100 To 500, Add</i>	0.38	
			<i>For &gt;5,000, Deduct</i>	-0.15	
			<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	0.62	
			<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	0.97	
07 24 13 00-0008	SF		4" Thick, R15.40, Molded Expanded Polystyrene, Foam Board Insulation For Exterior Insulation Finishing Systems (EIFS), Adhesive Applied.....	4.72	
			<i>For Up To 100, Add</i>	0.78	
			<i>For &gt;100 To 500, Add</i>	0.39	
			<i>For &gt;5,000, Deduct</i>	-0.16	
			<i>For Adhesive And Mechanically Fastened To Wood Or Steel, Add</i>	0.70	
			<i>For Adhesive And Mechanically Fastened To Concrete Or Masonry, Add</i>	1.05	
<b>07 24 13 00-0009</b>			<b>Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS)</b> <small>(07 24 13 00-0001)</small>		
			Note: Includes applying a layer of base coat to the insulation board and fully embedding the reinforcing fabric in the wet base coat.		
07 24 13 00-0010	SF		4.3 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit S-Mesh), Embedded In A Layer Of Base Coat.....	4.00	
			<i>For Up To 100, Add</i>	1.47	
			<i>For &gt;100 To 500, Add</i>	0.73	
			<i>For &gt;5,000, Deduct</i>	-0.29	
07 24 13 00-0011	SF		6.0 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit SP-Mesh), Embedded In A Layer Of Base Coat.....	4.31	
			<i>For Up To 100, Add</i>	1.47	
			<i>For &gt;100 To 500, Add</i>	0.73	
			<i>For &gt;5,000, Deduct</i>	-0.29	
07 24 13 00-0012	SF		15.0 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit Panzer® 15), Embedded In A Layer Of Base Coat.....	5.16	
			<i>For Up To 100, Add</i>	1.47	
			<i>For &gt;100 To 500, Add</i>	0.73	
			<i>For &gt;5,000, Deduct</i>	-0.29	
07 24 13 00-0013	SF		20.0 OZ, Fiberglass Reinforcing Mesh For Exterior Insulation Finishing Systems (EIFS) (Dryvit Panzer® 20), Embedded In A Layer Of Base Coat.....	5.41	
			<i>For Up To 100, Add</i>	1.47	
			<i>For &gt;100 To 500, Add</i>	0.73	
			<i>For &gt;5,000, Deduct</i>	-0.29	
<b>07 24 13 00-0014</b>			<b>Base Coats For Exterior Insulation Finishing Systems (EIFS)</b> <small>(07 24 13 00-0001)</small>		
07 24 13 00-0015	SF		Polymer-Based, Fiber-Reinforced Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Genesis® DM).....	1.96	
			<i>For Up To 100, Add</i>	0.73	
			<i>For &gt;100 To 500, Add</i>	0.37	
			<i>For &gt;5,000, Deduct</i>	-0.15	
07 24 13 00-0016	SF		Acrylic-Modified, Fiber-Reinforced Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Genesis®).....	2.19	
			<i>For Up To 100, Add</i>	0.73	
			<i>For &gt;100 To 500, Add</i>	0.37	
			<i>For &gt;5,000, Deduct</i>	-0.15	
07 24 13 00-0017	SF		Water Resistant, Acrylic Co-Polymer Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Dryflex®).....	3.45	
			<i>For Up To 100, Add</i>	0.73	
			<i>For &gt;100 To 500, Add</i>	0.37	
			<i>For &gt;5,000, Deduct</i>	-0.15	
07 24 13 00-0018	SF		Hydrostatic Water Resistant, Acrylic Co-Polymer Base Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Dryflex®).....	4.45	
			<i>For Up To 100, Add</i>	0.73	
			<i>For &gt;100 To 500, Add</i>	0.37	
			<i>For &gt;5,000, Deduct</i>	-0.15	
<b>07 24 13 00-0019</b>			<b>Finish Coats For Exterior Insulation Finishing Systems (EIFS)</b> <small>(07 24 13 00-0001)</small>		
			Note: Includes all standard manufacturers' colors.		
07 24 13 00-0020	SF		100% Acrylic-Based Aggregate Fine Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit DPR Finish).....	3.49	
			<i>For Up To 100, Add</i>	1.47	
			<i>For &gt;100 To 500, Add</i>	0.73	
			<i>For &gt;5,000, Deduct</i>	-0.29	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 24 13 00-0021 SF 100% Acrylic-Based Aggregate Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit DPR Finish).....	3.54	
<i>For Up To 100, Add</i>	1.47	
<i>For &gt;100 To 500, Add</i>	0.73	
<i>For &gt;5,000, Deduct</i>	-0.29	
07 24 13 00-0022 SF Lightweight Elastic, 100% Acrylic-Based Aggregate Fine Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit E™ Finish).....	3.91	
<i>For Up To 100, Add</i>	1.47	
<i>For &gt;100 To 500, Add</i>	0.73	
<i>For &gt;5,000, Deduct</i>	-0.29	
07 24 13 00-0023 SF Lightweight Elastic, 100% Acrylic-Based Aggregate Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit E™ Finish).....	4.24	
<i>For Up To 100, Add</i>	1.47	
<i>For &gt;100 To 500, Add</i>	0.73	
<i>For &gt;5,000, Deduct</i>	-0.29	
07 24 13 00-0024 SF Mildew Resistant, 100% Acrylic-Based Aggregate Fine Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit PMR™ Finish).....	3.91	
<i>For Up To 100, Add</i>	1.47	
<i>For &gt;100 To 500, Add</i>	0.73	
<i>For &gt;5,000, Deduct</i>	-0.29	
07 24 13 00-0025 SF Mildew Resistant, 100% Acrylic-Based Aggregate Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit PMR™ Finish).....	4.24	
<i>For Up To 100, Add</i>	1.47	
<i>For &gt;100 To 500, Add</i>	0.73	
<i>For &gt;5,000, Deduct</i>	-0.29	
07 24 13 00-0026 SF Flexible Elastomeric, 100% Acrylic-Based Smooth Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Weatherlastic® Smooth).....	3.60	
<i>For Up To 100, Add</i>	1.47	
<i>For &gt;100 To 500, Add</i>	0.73	
<i>For &gt;5,000, Deduct</i>	-0.29	
07 24 13 00-0027 SF Flexible Elastomeric, 100% Acrylic-Based Textured Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Weatherlastic®).....	3.94	
<i>For Up To 100, Add</i>	1.47	
<i>For &gt;100 To 500, Add</i>	0.73	
<i>For &gt;5,000, Deduct</i>	-0.29	
07 24 13 00-0028 SF 100% Acrylic-Based Finish With Multi-Colored Quartz Aggregates, Finish Coat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Ameristone™).....	6.86	
<i>For Up To 100, Add</i>	1.47	
<i>For &gt;100 To 500, Add</i>	0.73	
<i>For &gt;5,000, Deduct</i>	-0.29	
<b>07 24 13 00-0029 Primer And Sealers For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)</b>		
07 24 13 00-0030 SF 100% Acrylic-Based Primer/Adhesion Promoter For Exterior Insulation Finishing Systems (EIFS) (Dryvit Prymit®).....	1.03	
<i>For Up To 100, Add</i>	0.41	
<i>For &gt;100 To 500, Add</i>	0.21	
<i>For &gt;5,000, Deduct</i>	-0.08	
07 24 13 00-0031 SF 100% Acrylic Emulsion Primer/Sealer For Exterior Insulation Finishing Systems (EIFS) (Dryvit SealClear™).....	1.04	
<i>For Up To 100, Add</i>	0.41	
<i>For &gt;100 To 500, Add</i>	0.21	
<i>For &gt;5,000, Deduct</i>	-0.08	
<b>07 24 13 00-0032 Air/Water/Vapor Barriers For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)</b>		
07 24 13 00-0033 SF Smooth, High Performance, Polymer-Based, Non-Cementitious Water-Resistive Membrane And Air Barrier For Exterior Insulation Finishing Systems (EIFS) (Dryvit Backstop® NT™), Per Coat.....	1.30	
<i>For Up To 100, Add</i>	0.41	
<i>For &gt;100 To 500, Add</i>	0.21	
<i>For &gt;5,000, Deduct</i>	-0.08	
07 24 13 00-0034 SF Texture, High Performance, Polymer-Based, Non-Cementitious Water-Resistive Membrane And Air Barrier For Exterior Insulation Finishing Systems (EIFS) (Dryvit Backstop® NT™), Per Coat.....	1.54	
<i>For Up To 100, Add</i>	0.41	
<i>For &gt;100 To 500, Add</i>	0.21	
<i>For &gt;5,000, Deduct</i>	-0.08	
<b>07 24 13 00-0035 Drainage Accessories For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)</b>		
07 24 13 00-0036 SF 1/8" Thick, Flexible Polyamide Drainage Mat For Exterior Insulation Finishing Systems (EIFS) (Dryvit Drainage Mat).....	1.86	
<i>For Up To 100, Add</i>	0.46	
<i>For &gt;100 To 500, Add</i>	0.23	
<i>For &gt;5,000, Deduct</i>	-0.09	
<b>07 24 13 00-0037 Starter Tracks For Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)</b>		
07 24 13 00-0038 LF 1" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	2.57	
07 24 13 00-0039 LF 1-1/2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	2.74	
07 24 13 00-0040 LF 2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	2.95	
07 24 13 00-0041 LF 3" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track (Dryvit Starter Trac STWP).....	3.38	
07 24 13 00-0042 LF 1" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	2.74	
07 24 13 00-0043 LF 1-1/2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	2.95	

**07 Thermal And Moisture Protection****07 20 Thermal Protection****07 24 Exterior Insulation And Finish Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 24 13 00-0044	LF		2" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	3.15	
07 24 13 00-0045	LF		3" Width, Polyvinyl Chloride (PVC) Perforated "J" Channel Drainage Track With Drip Edge (Dryvit Starter Trac STDE).....	3.63	
<b>07 24 13 00-0046</b>			<b>Demolish Exterior Insulation Finishing Systems (EIFS) (07 24 13 00-0001)</b> .....	2.75	
07 24 13 00-0047	SF		Demolish Exterior Insulation Finishing Systems (EIFS).....	2.75	
			Note: Includes demolition of all finish coats, base coats, reinforcing layers and insulation layers down to the substrate. Excludes demolition of sheathing.		
			For Up To 100, Add	1.38	
			For >100 To 500, Add	0.69	
			For >5,000, Deduct	-0.28	

**07 25 Weather Barriers (07)****07 26 Vapor Retarders (07 25)****07 26 13 Above-Grade Vapor Retarders (07 26)**

07 26 13 00-0001	CSF		Two Layer Kraft Paper Laminated With Asphalt, Grade "B" Building Paper (Aquabar B).....	24.82	
07 26 13 00-0002	CSF		Asphalt Saturated Kraft Building Paper, Grade D, "Jumbo Tex".....	23.61	
07 26 13 00-0003	CSF		60 Minute Asphalt Saturated Kraft Building Paper, Grade D, "Super Jumbo Tex 60 Minute".....	27.46	
07 26 13 00-0004	CSF		Two Ply 60 Minute Asphalt Saturated Kraft Building Paper, Grade D, "Two Ply Super Jumbo Tex 60 Minute".....	33.12	
07 26 13 00-0005	CSF		Regular Weight Red Rosin Sized Sheathing.....	34.13	
07 26 13 00-0006	CLF		6" Wide Two Layer Kraft Paper Laminated With Asphalt, Building Flashing Paper (Bond Beam Paper).....	76.33	
07 26 13 00-0007	CLF		4" Wide Self Adhering Butyl Sealing Tape.....	105.23	
07 26 13 00-0008	CLF		6" Wide Self Adhesive Butyl Sealing Tape.....	145.57	
07 26 13 00-0009	CLF		9" Wide Self Adhesive Butyl Sealing Tape.....	194.46	
07 26 13 00-0010	CSF		Building Wrap (Tyvek).....	61.32	

**07 27 Air Barriers (07 25)****07 27 23 Board Product Air Barriers (07 27)****07 27 23 00-0001 Barriers For Plenums (07 27 23)**

07 27 23 00-0002	SF		0.5" Thick Lead Vinyl Acoustic Plenum Barrier 0.48 LB/SF.....	15.56	3.05
			For Up To 50, Add	4.72	
			For >50 To 200, Add	2.75	
			For >200 To 500, Add	1.08	
			For >2,500, Deduct	-0.78	
07 27 23 00-0003	SF		0.625" Thick Lead Vinyl Acoustic Plenum Barrier 0.87 LB/SF.....	16.75	3.05
			For Up To 50, Add	5.13	
			For >50 To 200, Add	2.98	
			For >200 To 500, Add	1.16	
			For >2,500, Deduct	-0.84	
07 27 23 00-0004	SF		Aluminum Foil Fiberglass Reinforced Plenum Bar Parallel With Joists 1" Thick.....	4.27	2.03
			For Up To 50, Add	2.12	
			For >50 To 200, Add	1.17	
			For >200 To 500, Add	0.40	
			For >2,500, Deduct	-0.21	
07 27 23 00-0005	SF		Aluminum Foil Fiberglass Reinforced Plenum Bar Perpendicular With Joists 1" Thick.....	7.76	3.05
			For Up To 50, Add	3.78	
			For >50 To 200, Add	2.08	
			For >200 To 500, Add	0.72	
			For >2,500, Deduct	-0.39	
07 27 23 00-0006	SF		Aluminum Mesh Barrier For Plenum Kraft Paper Backed.....	5.55	2.03
			For Up To 50, Add	2.31	
			For >50 To 200, Add	1.29	
			For >200 To 500, Add	0.46	
			For >2,500, Deduct	-0.28	
07 27 23 00-0007	SF		1/64" Thick Sheet Lead Barrier For Plenum 1 LB/SF.....	12.90	2.03
			For Up To 50, Add	3.29	
			For >50 To 200, Add	1.97	
			For >200 To 500, Add	0.81	
			For >2,500, Deduct	-0.65	

**07 30 Steep Slope Roofing (07)**

Note: Includes starter strips and manufacturer's product specific warranties.

**07 31 Shingles And Shakes (07 30)****07 31 13 Asphalt Shingles (07 31)****07 31 13 00-0001 Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (07 31 13)**

Note: Excludes underlayment, drip edges, and ridge vent/shingles.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 13 00-0002 SQ 200 LB/SQ, 5" Exposure, Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed CT 20) .....	225.30	151.88
<i>For &gt;35 To 75, Deduct</i>	-8.72	
<i>For &gt;75 To 100, Deduct</i>	-13.91	
<i>For &gt;100 To 200, Deduct</i>	-20.85	
<i>For &gt;200, Deduct</i>	-31.25	
<i>For Steep Roof, Over 7 To 12, Add</i>	44.20	
07 31 13 00-0003 SQ 220 LB/SQ, 5" Exposure, Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed XT 25) .....	236.29	159.50
<i>For &gt;35 To 75, Deduct</i>	-9.13	
<i>For &gt;75 To 100, Deduct</i>	-14.58	
<i>For &gt;100 To 200, Deduct</i>	-21.86	
<i>For &gt;200, Deduct</i>	-32.76	
<i>For Steep Roof, Over 7 To 12, Add</i>	46.40	
07 31 13 00-0004 SQ 230 LB/SQ, 5" Exposure, Three Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed XT 30) .....	272.57	167.46
<i>For &gt;35 To 75, Deduct</i>	-12.03	
<i>For &gt;75 To 100, Deduct</i>	-18.24	
<i>For &gt;100 To 200, Deduct</i>	-26.86	
<i>For &gt;200, Deduct</i>	-39.29	
<i>For Steep Roof, Over 7 To 12, Add</i>	48.73	
<b>07 31 13 00-0005 Architectural Fiberglass Reinforced, Asphalt Composition Shingle <small>(07 31 13)</small></b>		
Note: Excludes underlayment, drip edges, and ridge vent/shingles.		
07 31 13 00-0006 SQ 245 LB/SQ, 5" Exposure, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark) .....	281.23	193.89
<i>For &gt;35 To 75, Deduct</i>	-10.50	
<i>For &gt;75 To 100, Deduct</i>	-17.00	
<i>For &gt;100 To 200, Deduct</i>	-25.61	
<i>For &gt;200, Deduct</i>	-38.62	
<i>For Steep Roof, Over 7 To 12, Add</i>	56.40	
07 31 13 00-0007 SQ 240 LB/SQ, 8" Exposure, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Highland Slate) .....	296.64	184.61
<i>For &gt;35 To 75, Deduct</i>	-12.88	
<i>For &gt;75 To 100, Deduct</i>	-19.65	
<i>For &gt;100 To 200, Deduct</i>	-29.00	
<i>For &gt;200, Deduct</i>	-42.54	
<i>For Steep Roof, Over 7 To 12, Add</i>	53.72	
07 31 13 00-0008 SQ 265 LB/SQ, 5" Exposure, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark Plus) .....	321.54	203.59
<i>For &gt;35 To 75, Deduct</i>	-13.64	
<i>For &gt;75 To 100, Deduct</i>	-21.00	
<i>For &gt;100 To 200, Deduct</i>	-31.08	
<i>For &gt;200, Deduct</i>	-45.80	
<i>For Steep Roof, Over 7 To 12, Add</i>	59.24	
07 31 13 00-0009 SQ 235 LB/SQ, 8" Exposure, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Hatteras) .....	309.41	175.83
<i>For &gt;35 To 75, Deduct</i>	-14.96	
<i>For &gt;75 To 100, Deduct</i>	-21.94	
<i>For &gt;100 To 200, Deduct</i>	-31.92	
<i>For &gt;200, Deduct</i>	-45.90	
<i>For Steep Roof, Over 7 To 12, Add</i>	51.15	
07 31 13 00-0010 SQ 300 LB/SQ, 5" Exposure, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark Premium) .....	348.45	213.78
<i>For &gt;35 To 75, Deduct</i>	-15.42	
<i>For &gt;75 To 100, Deduct</i>	-23.36	
<i>For &gt;100 To 200, Deduct</i>	-34.38	
<i>For &gt;200, Deduct</i>	-50.26	
<i>For Steep Roof, Over 7 To 12, Add</i>	62.18	
07 31 13 00-0011 SQ 300 LB/SQ, 5" Exposure, Random Laminated Tabs, One Piece, Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Independence) .....	371.05	213.78
<i>For &gt;35 To 75, Deduct</i>	-17.68	
<i>For &gt;75 To 100, Deduct</i>	-26.07	
<i>For &gt;100 To 200, Deduct</i>	-38.00	
<i>For &gt;200, Deduct</i>	-54.78	
<i>For Steep Roof, Over 7 To 12, Add</i>	62.18	
07 31 13 00-0012 SQ 355 LB/SQ, 4" Exposure, Sculpted Edge, Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Presidential Shake) .....	405.32	235.65
<i>For &gt;35 To 75, Deduct</i>	-19.11	
<i>For &gt;75 To 100, Deduct</i>	-28.28	
<i>For &gt;100 To 200, Deduct</i>	-41.28	
<i>For &gt;200, Deduct</i>	-59.64	
<i>For Steep Roof, Over 7 To 12, Add</i>	68.57	
07 31 13 00-0013 SQ 340 LB/SQ, 5" Exposure, Three Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark TL) .....	401.49	224.47
<i>For &gt;35 To 75, Deduct</i>	-19.75	
<i>For &gt;75 To 100, Deduct</i>	-28.80	
<i>For &gt;100 To 200, Deduct</i>	-41.80	
<i>For &gt;200, Deduct</i>	-59.90	
<i>For Steep Roof, Over 7 To 12, Add</i>	65.28	
07 31 13 00-0014 SQ 300 LB/SQ, 5" Exposure, Reflective Two Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Landmark Solaris) .....	398.83	213.78
<i>For &gt;35 To 75, Deduct</i>	-20.45	
<i>For &gt;75 To 100, Deduct</i>	-29.40	
<i>For &gt;100 To 200, Deduct</i>	-42.44	
<i>For &gt;200, Deduct</i>	-60.34	
<i>For Steep Roof, Over 7 To 12, Add</i>	62.18	

**07 Thermal And Moisture Protection****07 30 Steep Slope Roofing****07 31 Shingles And Shakes**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 13 00-0015 SQ 355 LB/SQ, 8" Exposure, Two Full Size Layers, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Centennial Slate) .....	466.15	235.65
For >35 To 75, Deduct	-25.19	
For >75 To 100, Deduct	-35.58	
For >100 To 200, Deduct	-51.01	
For >200, Deduct	-71.80	
For Steep Roof, Over 7 To 12, Add	68.57	
07 31 13 00-0016 SQ 355 LB/SQ, 8" Exposure, Scalloped Cut, Two Full Size Layers, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Carriage House) .....	481.99	235.65
For >35 To 75, Deduct	-26.77	
For >75 To 100, Deduct	-37.48	
For >100 To 200, Deduct	-53.55	
For >200, Deduct	-74.97	
For Steep Roof, Over 7 To 12, Add	68.57	
07 31 13 00-0017 SQ 480 LB/SQ, 4" Exposure, Sculpted Edge, Three Layer Laminated Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed Presidential Shake TL) .....	535.38	259.85
For >35 To 75, Deduct	-29.92	
For >75 To 100, Deduct	-41.80	
For >100 To 200, Deduct	-59.68	
For >200, Deduct	-83.45	
For Steep Roof, Over 7 To 12, Add	75.59	
07 31 13 00-0018 SQ 425 LB/SQ, 8" Exposure, Random Laminated Tabs, Two Full Size Layers, Four Tab Fiberglass Reinforced, Asphalt Composition Shingle (CertainTeed GrandManor) .....	526.85	247.42
For >35 To 75, Deduct	-30.19	
For >75 To 100, Deduct	-41.85	
For >100 To 200, Deduct	-59.55	
For >200, Deduct	-82.87	
For Steep Roof, Over 7 To 12, Add	71.99	
<b>07 31 13 00-0019 Accessories (07 31 13)</b>		
07 31 13 00-0020 LF Hip And Ridge Roll Vent .....	5.30	0.91
Note: Excludes shingles.		
07 31 13 00-0021 LF Three Tab Hip And Ridge Shingles .....	3.18	2.27
07 31 13 00-0022 LF Architectural Hip And Ridge Shingles .....	3.82	2.51
07 31 13 00-0023 SQ Demolish Additional Layers Of Shingles .....	82.86	
<b>07 31 16 Metal Shingles (07 31)</b>		
<b>07 31 16 00-0001 Aluminum Shingles (07 31 16)</b>		
07 31 16 00-0002 SQ Aluminum Shingles, Mill Finish, 0.020" Thick .....	675.21	144.05
For Colors, Anodized Finish, Add	30.00	
For Bonderized Finish, Add	47.00	
For 1" Factory Applied Polystyrene, Add	37.00	
07 31 16 00-0003 SQ Aluminum Shingles, Mill Finish, 0.030" Thick .....	937.61	157.44
For Colors, Anodized Finish, Add	30.00	
For Bonderized Finish, Add	47.00	
For 1" Factory Applied Polystyrene, Add	37.00	
07 31 16 00-0004 LF Aluminum Shingles, Ridge Cap, 0.020" Thick .....	12.59	2.08
07 31 16 00-0005 LF Aluminum Shingles, Ridge Cap, 0.030" Thick .....	13.22	2.08
07 31 16 00-0006 LF Aluminum Shingles, Valley Section For Above, 0.020" Thick .....	7.87	2.08
07 31 16 00-0007 LF Aluminum Shingles, Valley Section For Above, 0.030" Thick .....	9.13	2.08
<b>07 31 16 00-0008 Galvanized Steel Shingles (07 31 16)</b>		
07 31 16 00-0009 SQ 24 Gauge Steel Shingles, Galvanized .....	400.21	137.50
For Factory Applied 1" Polystyrene Insulation, Add	24.75	
For >50 To 75, Deduct	-5.01	
For >75 To 100, Deduct	-15.64	
For >100 To 200, Deduct	-27.52	
For >200, Deduct	-38.15	
For Steep Roof, Over 7 To 12, Add	88.02	
07 31 16 00-0010 SQ 26 Gauge Steel Shingles, Galvanized .....	387.56	136.41
For Factory Applied 1" Polystyrene Insulation, Add	24.75	
For >50 To 75, Deduct	-4.59	
For >75 To 100, Deduct	-14.86	
For >100 To 200, Deduct	-26.27	
For >200, Deduct	-36.53	
For Steep Roof, Over 7 To 12, Add	87.27	
07 31 16 00-0011 SQ 24 Gauge Steel Shingles, Galvanized And Bonderized .....	580.35	136.41
For Factory Applied 1" Polystyrene Insulation, Add	24.75	
For >50 To 75, Deduct	-12.31	
For >75 To 100, Deduct	-28.35	
For >100 To 200, Deduct	-47.48	
For >200, Deduct	-63.52	
For Steep Roof, Over 7 To 12, Add	87.27	
07 31 16 00-0012 SQ 26 Gauge Steel Shingles, Galvanized And Bonderized .....	542.42	136.41
For Factory Applied 1" Polystyrene Insulation, Add	24.75	
For >50 To 75, Deduct	-10.79	
For >75 To 100, Deduct	-25.70	
For >100 To 200, Deduct	-43.30	
For >200, Deduct	-58.21	
For Steep Roof, Over 7 To 12, Add	87.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 16 00-0013 LF Ridge Or Valley..... <i>For Factory Applied 1" Polystyrene Insulation, Add</i> <i>For &gt;50 To 75, Deduct</i> <i>For &gt;75 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i> <i>For Steep Roof, Over 7 To 12, Add</i>	6.23 24.75 -0.11 -0.27 -0.47 -0.64 1.15	1.84
<b>07 31 19 Mineral-Fiber Cement Shingles (07 31)</b>		
<b>07 31 19 00-0001 Mineral Fiber Shingles (07 31 19)</b>		
07 31 19 00-0002 SQ Mineral Fiber Strip Shingles, 14" X 30", 325 LB/SQ ..... <i>For Steep Roof, Over 7 To 12, Add</i>	465.36 55.30	86.41
07 31 19 00-0003 SQ Mineral Fiber, Shakes, 9.35" x 16", 500 LB/SQ ..... <i>For Steep Roof, Over 7 To 12, Add</i>	687.36 100.65	157.27
07 31 19 00-0004 SQ Mineral Fiber, Hexagonal Shape, 16" X 16", per SQ ..... <i>For Steep Roof, Over 7 To 12, Add</i>	482.41 73.82	115.36
07 31 19 00-0005 SQ Mineral Fiber, Square, 16" X 16", per SQ ..... <i>For Steep Roof, Over 7 To 12, Add</i>	455.20 73.82	115.36
07 31 19 00-0006 CLF Mineral Fiber, Strip Shingles, Starters, 8" x 30", 255 LB Per 100 LF .....	374.92	115.36
07 31 19 00-0007 CLF Mineral Fiber, Hip And Ridge Shingles, 4-3/4" x 14", 380 LB Per 100 LF .....	1,208.32	345.64
07 31 19 00-0008 CLF Mineral Fiber, Hip And Ridge Shingles, 5-3/8" X 14", per 100 LF .....	1,255.94	345.64
<b>07 31 26 Slate Shingles (07 31)</b>		
Note: Includes 30 LB felt and fasteners.		
<b>07 31 26 00-0001 Shingles Including 30 LB Felt And Nails (07 31 26)</b>		
07 31 26 00-0002 SQ Slate Shingles, Buckingham, Virginia Black, 3/16" Thick..... <i>For &gt;50 To 75, Deduct</i> <i>For &gt;75 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,017.57 -19.86 -47.78 -80.66 -108.59 74.47 166.76	234.53
07 31 26 00-0003 SQ Slate Shingles, Buckingham, Virginia Black, 1/4" Thick..... <i>For &gt;50 To 75, Deduct</i> <i>For &gt;75 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,155.61 -25.38 -57.44 -95.85 -127.91 95.17 166.76	234.53
07 31 26 00-0004 SQ Slate Shingles, Penn Black Bangor ..... <i>For &gt;50 To 75, Deduct</i> <i>For &gt;75 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,114.20 -23.72 -54.54 -91.29 -122.11 88.96 166.76	234.53
07 31 26 00-0005 SQ Slate Shingles, Vermont, Unfading Colors, Green..... <i>For &gt;50 To 75, Deduct</i> <i>For &gt;75 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,128.00 -24.27 -55.51 -92.81 -124.05 91.03 166.76	234.53
07 31 26 00-0006 SQ Slate Shingles, Vermont, Unfading Colors, Semi-Weathered, Green/Gray ..... <i>For &gt;50 To 75, Deduct</i> <i>For &gt;75 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,183.22 -26.48 -59.37 -98.89 -131.78 99.31 166.76	234.53
07 31 26 00-0007 SQ Slate Shingles, Vermont, Unfading Color, Purple ..... <i>For &gt;50 To 75, Deduct</i> <i>For &gt;75 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,114.20 -23.72 -54.54 -91.29 -122.11 88.96 166.76	234.53
07 31 26 00-0008 SQ Slate Shingles, Vermont, Unfading Color, Black Or Gray ..... <i>For &gt;50 To 75, Deduct</i> <i>For &gt;75 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,072.79 -22.07 -51.64 -86.74 -116.32 82.75 166.76	234.53
07 31 26 00-0009 SQ Slate Shingles, Vermont, Unfading Color, Red..... <i>For &gt;50 To 75, Deduct</i> <i>For &gt;75 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i> <i>For Graduated Shapes, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	1,935.37 -56.57 -112.03 -181.62 -237.08 212.14 166.76	234.53

**07 Thermal And Moisture Protection****07 30 Steep Slope Roofing****07 31 Shingles And Shakes**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 26 00-0010	SQ		Slate Shingles, Vermont, Unfading Color, Variegated Purple .....	1,114.20	234.53
			For >50 To 75, Deduct	-23.72	
			For >75 To 100, Deduct	-54.54	
			For >100 To 200, Deduct	-91.29	
			For >200, Deduct	-122.11	
			For Graduated Shapes, Add	88.96	
			For Steep Roof, Over 7 To 12, Add	166.76	
<b>07 31 29</b>			<b>Wood Shingles And Shakes (07 31)</b>		
<b>07 31 29 13</b>			<b>Wood Shingles (07 31 29)</b>		
07 31 29 13-0001			#1 Grade, Red Cedar Shingles (07 31 29 13)		
07 31 29 13-0002			#1 Grade, Red Cedar Shingles Installed On Roofs (07 31 29 13-0001)		
07 31 29 13-0003	SQ		3-3/4" Exposure, 16" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	660.23	202.85
			For Steep Roof, Over 7 To 12, Add	129.83	
			For CCA Treated, Add	38.18	
07 31 29 13-0004	SQ		5" Exposure, 16" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	482.44	152.14
			For Steep Roof, Over 7 To 12, Add	97.37	
			For CCA Treated, Add	26.72	
07 31 29 13-0005	SQ		4-1/2" Exposure, 18" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	580.27	172.43
			For Steep Roof, Over 7 To 12, Add	110.35	
			For CCA Treated, Add	35.31	
07 31 29 13-0006	SQ		5-1/2" Exposure, 18" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	475.87	142.00
			For Steep Roof, Over 7 To 12, Add	90.88	
			For CCA Treated, Add	28.78	
07 31 29 13-0007	SQ		5-3/4" Exposure, 24" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	589.50	134.39
			For Steep Roof, Over 7 To 12, Add	86.01	
			For CCA Treated, Add	48.11	
07 31 29 13-0008	SQ		7-1/2" Exposure, 24" Shingle, #1 Grade, Red Cedar Shingles Installed On Roof.....	463.94	114.10
			For Steep Roof, Over 7 To 12, Add	73.03	
			For CCA Treated, Add	35.36	
07 31 29 13-0009			#1 Grade, Red Cedar Shingles Installed On Walls (07 31 29 13-0001)		
07 31 29 13-0010	SQ		7" Exposure, 16" Shingle, #1 Grade, Red Cedar Shingles Installed On Wall .....	492.40	182.57
			For CCA Treated, Add	19.09	
07 31 29 13-0011	SQ		8" Exposure, 18" Shingle, #1 Grade, Red Cedar Shingles Installed On Wall .....	477.17	172.43
			For CCA Treated, Add	19.85	
07 31 29 13-0012	SQ		10-1/2" Exposure, 24" Shingle, #1 Grade, Red Cedar Shingles Installed On Wall .....	467.58	149.61
			For CCA Treated, Add	25.26	
07 31 29 13-0013			#2 Grade, Red Cedar Shingles (07 31 29 13)		
07 31 29 13-0014			#2 Grade, Red Cedar Shingles Installed On Roofs (07 31 29 13-0013)		
07 31 29 13-0015	SQ		3-1/2" Exposure, 16" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof.....	631.56	213.00
			For Steep Roof, Over 7 To 12, Add	136.32	
			For CCA Treated, Add	30.84	
07 31 29 13-0016	SQ		4" Exposure, 16" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof.....	565.30	192.71
			For Steep Roof, Over 7 To 12, Add	123.33	
			For CCA Treated, Add	26.98	
07 31 29 13-0017	SQ		4" Exposure, 18" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof.....	593.36	192.71
			For Steep Roof, Over 7 To 12, Add	123.33	
			For CCA Treated, Add	31.19	
07 31 29 13-0018	SQ		4-1/2" Exposure, 18" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof.....	529.82	172.43
			For Steep Roof, Over 7 To 12, Add	110.35	
			For CCA Treated, Add	27.75	
07 31 29 13-0019	SQ		5-3/4" Exposure, 24" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof.....	492.54	134.39
			For Steep Roof, Over 7 To 12, Add	86.01	
			For CCA Treated, Add	33.56	
07 31 29 13-0020	SQ		6-1/2" Exposure, 24" Shingle, #2 Grade, Red Cedar Shingles Installed On Roof.....	407.56	116.65
			For Steep Roof, Over 7 To 12, Add	74.65	
			For CCA Treated, Add	26.14	
07 31 29 13-0021			#2 Grade, Red Cedar Shingles Installed On Walls (07 31 29 13-0013)		
07 31 29 13-0022	SQ		6" Exposure, 16" Shingle, #2 Grade, Red Cedar Shingles Installed On Wall .....	488.21	192.71
			For CCA Treated, Add	15.42	
07 31 29 13-0023	SQ		7" Exposure, 18" Shingle, #2 Grade, Red Cedar Shingles Installed On Wall .....	469.11	182.57
			For CCA Treated, Add	15.60	
07 31 29 13-0024	SQ		9" Exposure, 24" Shingle, #2 Grade, Red Cedar Shingles Installed On Wall .....	442.04	162.28
			For CCA Treated, Add	17.62	
<b>07 31 29 16</b>			<b>Wood Shakes (07 31 29)</b>		
07 31 29 16-0001			#1 Grade, Red Cedar Shakes (07 31 29 16)		
07 31 29 16-0002			#1 Grade, Red Cedar Shakes Installed On Roofs (07 31 29 16-0001)		
07 31 29 16-0003	SQ		8-1/2" Exposure, 1/2" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Roof.....	494.10	164.82
			For Steep Roof, Over 7 To 12, Add	105.48	
			For CCA Treated, Add	24.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 31 29 16-0004 SQ 8-1/2" Exposure, 3/4" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Roof ..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For CCA Treated, Add</i>	548.92 105.48 32.89	164.82
07 31 29 16-0005 SQ 10" Exposure, 1/2" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For CCA Treated, Add</i>	494.92 86.01 33.92	134.39
07 31 29 16-0006 SQ 10" Exposure, 3/4" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Roof..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For CCA Treated, Add</i>	518.22 86.01 37.41	134.39
<b>07 31 29 16-0007 #1 Grade, Red Cedar Shakes Installed On Walls (07 31 29 16-0001)</b>		
07 31 29 16-0008 SQ 8-1/2" Exposure, 1/2" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Wall ..... <i>For CCA Treated, Add</i>	519.45 24.67	177.50
07 31 29 16-0009 SQ 8-1/2" Exposure, 3/4" Thick, 18" Shake, #1 Grade, Red Cedar Shakes Installed On Wall ..... <i>For CCA Treated, Add</i>	574.27 32.89	177.50
07 31 29 16-0010 SQ 10" Exposure, 1/2" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Wall ..... <i>For CCA Treated, Add</i>	530.41 33.92	152.14
07 31 29 16-0011 SQ 10" Exposure, 3/4" Thick, 24" Shake, #1 Grade, Red Cedar Shakes Installed On Wall ..... <i>For CCA Treated, Add</i>	553.71 37.41	152.14
<b>07 31 29 19 Wood Shingles And Shakes Cap (07 31 29)</b>		
<b>07 31 29 19-0001 Wood Hip And Ridge Cap For Wood Shingles Or Shakes (07 31 29 19)</b>		
07 31 29 19-0002 LF Red Cedar Hip Or Ridge Cap For Wood Shingles Or Shakes..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For CCA Treated Ridge, Add</i>	7.42 0.99 0.65	1.32
<b>07 31 33 Composite Rubber Shingles (07 31)</b>		
07 31 33 00-0001 SQ Class C Rectangular Edges Polymeric Rubber Slate Shingles, 7.0" Exposure ..... Note: Gray or black. <i>For Purple Or Green Color, Add</i> <i>For Brown Or Red Color, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i> <i>For &gt;50 To 75, Deduct</i> <i>For &gt;75 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i> <i>For 6.5" Exposure, Add</i> <i>For 6.0" Exposure, Add</i>	835.17 71.86 184.15 123.53 -11.23 -32.11 -52.99 -83.52 57.82 115.63	193.04
07 31 33 00-0002 SQ Class A Rectangular Edges Polymeric Rubber Slate Shingles, 7.0" Exposure ..... Note: Fire resistant. Gray or black. <i>For Purple, Green, Brown Or Red, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i> <i>For &gt;50 To 75, Deduct</i> <i>For &gt;75 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i> <i>For 6.5" Exposure, Add</i> <i>For 6.0" Exposure, Add</i>	1,134.60 112.29 123.53 -18.71 -47.08 -75.44 -113.46 79.21 158.41	193.04
07 31 33 00-0003 SQ Class C Shaped Polymeric Rubber Slate Shingle, 7.0" Exposure ..... Note: Beaver tail, chisel point or beveled edges. Gray or black. <i>For Purple, Green, Brown Or Red, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i> <i>For &gt;50 To 75, Deduct</i> <i>For &gt;75 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i> <i>For 6.5" Exposure, Add</i> <i>For 6.0" Exposure, Add</i>	958.47 206.08 123.53 -14.31 -38.27 -62.23 -95.85 66.63 133.25	193.04
07 31 33 00-0004 SQ Class A Shaped Polymeric Rubber Slate Shingle, 7.0" Exposure ..... Note: Fire resistant. Beaver tail, chisel point or beveled edges. Gray or black. <i>For Purple, Green, Brown Or Red, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i> <i>For &gt;50 To 75, Deduct</i> <i>For &gt;75 To 100, Deduct</i> <i>For &gt;100 To 200, Deduct</i> <i>For &gt;200, Deduct</i> <i>For 6.5" Exposure, Add</i> <i>For 6.0" Exposure, Add</i>	1,196.25 89.12 123.53 -20.26 -50.16 -80.07 -119.63 83.61 167.21	193.04
07 31 33 00-0005 LF Hip Or Ridge Polymeric Rubber Slate Shingle..... Note: Beveled or pointed edges, gray or black.	7.11	1.29
<b>07 32 Roof Tiles (07 30)</b>		
<b>07 32 13 Clay Roof Tiles (07 32)</b>		
Note: 8-1/4" x 11" exposure. Includes mortar, fasteners, felt underlayment and 90# cap sheet.		
07 32 13 00-0001 Clay Roofing Tile 8-1/4" x 11" Exposure (07 32 13) Note: Includes mortar, fasteners, felt underlayment and 90# cap sheet.		

**07 Thermal And Moisture Protection****07 30 Steep Slope Roofing****07 32 Roof Tiles**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 32 13 00-0002 SQ Lanai Or Classic Tile, 158 Piece Per SQ .....	2,096.68	222.42
For >25 To 50, Deduct	-99.11	
For >50 To 75, Deduct	-176.30	
For >75 To 100, Deduct	-236.98	
For >100 To 200, Deduct	-281.14	
For >200, Deduct	-308.78	
For 20 Year Warranty, Add	115.63	
07 32 13 00-0003 SQ Americana (Most Colors) Tile Roofing, 158 Piece Per SQ .....	2,642.84	222.42
For >25 To 50, Deduct	-131.88	
For >50 To 75, Deduct	-230.92	
For >75 To 100, Deduct	-307.98	
For >100 To 200, Deduct	-363.06	
For >200, Deduct	-396.16	
For 20 Year Warranty, Add	153.86	
07 32 13 00-0004 SQ Americana (Green, Gray Or Brown) Tile, 158 Piece Per SQ .....	2,642.84	222.42
For >25 To 50, Deduct	-131.88	
For >50 To 75, Deduct	-230.92	
For >75 To 100, Deduct	-307.98	
For >100 To 200, Deduct	-363.06	
For >200, Deduct	-396.16	
For 20 Year Warranty, Add	153.86	
07 32 13 00-0005 SQ Americana (Blue) Tile, 158 Piece Per SQ .....	3,106.26	222.42
For >25 To 50, Deduct	-159.68	
For >50 To 75, Deduct	-277.26	
For >75 To 100, Deduct	-368.22	
For >100 To 200, Deduct	-432.57	
For >200, Deduct	-470.31	
For 20 Year Warranty, Add	186.30	
07 32 13 00-0006 SQ French Tile Roofing, Red, 133 Piece Per SQ .....	2,489.32	271.95
For >25 To 50, Deduct	-116.73	
For >50 To 75, Deduct	-208.14	
For >75 To 100, Deduct	-280.10	
For >100 To 200, Deduct	-332.61	
For >200, Deduct	-365.66	
For 20 Year Warranty, Add	136.18	
07 32 13 00-0007 SQ French Tile Roofing, Blue Or Green, 133 Piece Per SQ .....	3,304.55	271.95
For >25 To 50, Deduct	-165.64	
For >50 To 75, Deduct	-289.66	
For >75 To 100, Deduct	-386.08	
For >100 To 200, Deduct	-454.89	
For >200, Deduct	-496.10	
For 20 Year Warranty, Add	193.25	
07 32 13 00-0008 SQ Norman Tile Roofing, 317 Piece Per SQ .....	4,172.76	366.87
For >25 To 50, Deduct	-206.35	
For >50 To 75, Deduct	-362.26	
For >75 To 100, Deduct	-483.78	
For >100 To 200, Deduct	-570.90	
For >200, Deduct	-623.63	
For 20 Year Warranty, Add	240.75	
07 32 13 00-0009 SQ Williamsburg Tile Roofing, Aged Cedar, 158 Piece Per SQ .....	2,081.44	271.95
For >25 To 50, Deduct	-92.25	
For >50 To 75, Deduct	-167.35	
For >75 To 100, Deduct	-227.08	
For >100 To 200, Deduct	-271.43	
For >200, Deduct	-300.40	
For 20 Year Warranty, Add	107.63	
07 32 13 00-0010 SQ Williamsburg Tile Roofing, Gray Or Green, 158 Piece Per SQ .....	2,741.83	271.95
For >25 To 50, Deduct	-131.88	
For >50 To 75, Deduct	-233.39	
For >75 To 100, Deduct	-312.93	
For >100 To 200, Deduct	-370.48	
For >200, Deduct	-406.06	
For 20 Year Warranty, Add	153.86	
07 32 13 00-0011 SQ Spanish Tile Roofing, Red, 171 Piece Per SQ .....	1,860.46	203.61
For >25 To 50, Deduct	-87.19	
For >50 To 75, Deduct	-155.50	
For >75 To 100, Deduct	-209.28	
For >100 To 200, Deduct	-248.52	
For >200, Deduct	-273.24	
For 20 Year Warranty, Add	101.72	
07 32 13 00-0012 SQ Spanish Tile Roofing, Blend, 171 Piece Per SQ .....	2,572.13	203.61
For >25 To 50, Deduct	-129.89	
For >50 To 75, Deduct	-226.67	
For >75 To 100, Deduct	-301.79	
For >100 To 200, Deduct	-355.27	
For >200, Deduct	-387.10	
For 20 Year Warranty, Add	151.54	
07 32 13 00-0013 SQ Spanish Tile Roofing, Glazed White, 171 Piece Per SQ .....	3,184.50	203.61
For >25 To 50, Deduct	-166.63	
For >50 To 75, Deduct	-287.90	
For >75 To 100, Deduct	-381.40	
For >100 To 200, Deduct	-447.13	
For >200, Deduct	-485.08	
For 20 Year Warranty, Add	194.41	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 32 13 00-0014 SQ Two Piece Mission Tile Roofing, 192 Piece Per SQ .....	3,663.84	319.18
<i>For &gt;25 To 50, Deduct</i>	-181.53	
<i>For &gt;50 To 75, Deduct</i>	-318.51	
<i>For &gt;75 To 100, Deduct</i>	-425.23	
<i>For &gt;100 To 200, Deduct</i>	-501.70	
<i>For &gt;200, Deduct</i>	-547.91	
<i>For 20 Year Warranty, Add</i>	211.78	
07 32 13 00-0015 SQ One Piece Mission Tile Roofing, 75 Piece Per SQ .....	1,385.01	222.42
<i>For &gt;25 To 50, Deduct</i>	-56.41	
<i>For &gt;50 To 75, Deduct</i>	-105.13	
<i>For &gt;75 To 100, Deduct</i>	-144.46	
<i>For &gt;100 To 200, Deduct</i>	-174.38	
<i>For &gt;200, Deduct</i>	-194.91	
<i>For 20 Year Warranty, Add</i>	65.81	
07 32 13 00-0016 SQ One Piece Mission Tile Roofing, 134 Piece Per SQ .....	1,801.91	319.18
<i>For &gt;25 To 50, Deduct</i>	-69.81	
<i>For &gt;50 To 75, Deduct</i>	-132.31	
<i>For &gt;75 To 100, Deduct</i>	-183.18	
<i>For &gt;100 To 200, Deduct</i>	-222.41	
<i>For &gt;200, Deduct</i>	-250.00	
<i>For 20 Year Warranty, Add</i>	81.45	

**07 32 16 Concrete Roof Tiles (07 32)**

**07 32 16 00-0001 Corrugated Tiles And Shakes Nailed To Wood (07 32 16)**

Note: Includes 30 lb felt underlayment.

07 32 16 00-0002 SQ 13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Earthtone Colors, Corrugated .....	935.44	337.16
<i>For &gt;50 To 75, Deduct</i>	-10.44	
<i>For &gt;75 To 100, Deduct</i>	-35.13	
<i>For &gt;100 To 200, Deduct</i>	-62.43	
<i>For &gt;200, Deduct</i>	-87.12	
<i>For Steep Roof, Over 7 To 12, Add</i>	215.81	
07 32 16 00-0003 SQ 13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Custom Blues, Corrugated .....	1,210.70	337.16
<i>For &gt;50 To 75, Deduct</i>	-21.45	
<i>For &gt;75 To 100, Deduct</i>	-54.40	
<i>For &gt;100 To 200, Deduct</i>	-92.71	
<i>For &gt;200, Deduct</i>	-125.66	
<i>For Steep Roof, Over 7 To 12, Add</i>	215.81	
07 32 16 00-0004 SQ 13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Custom Greens Corrugated .....	990.49	337.16
<i>For &gt;50 To 75, Deduct</i>	-12.64	
<i>For &gt;75 To 100, Deduct</i>	-38.99	
<i>For &gt;100 To 200, Deduct</i>	-68.49	
<i>For &gt;200, Deduct</i>	-94.83	
<i>For Steep Roof, Over 7 To 12, Add</i>	215.81	
07 32 16 00-0005 SQ 13" x 16-1/2" Concrete Roof Tile, 90/SQ, 950 LB/SQ, Colors, Shakes .....	933.26	301.66
<i>For &gt;50 To 75, Deduct</i>	-13.19	
<i>For &gt;75 To 100, Deduct</i>	-38.17	
<i>For &gt;100 To 200, Deduct</i>	-66.45	
<i>For &gt;200, Deduct</i>	-91.43	
<i>For Steep Roof, Over 7 To 12, Add</i>	193.09	

**07 32 16 00-0006 Accessories (07 32 16)**

07 32 16 00-0007 EA Ridge And Hip, 10" X 16-1/2", 8 LB Each For Concrete Tile Roof .....	4.65
07 32 16 00-0008 EA Rake, 6-1/2" X 16-3/4", 9 LB Each For Concrete Tile Roof .....	3.06
07 32 16 00-0009 EA Mansard Hip, 10" X 16-1/2", 9.2 LB Each For Concrete Tile Roof .....	4.62
07 32 16 00-0010 EA Hip Starter, 10" X 16-1/2", 10.5 LB Each For Concrete Tile Roof .....	5.29
07 32 16 00-0011 EA 3 Or 4 Way Apex, 10" Each Side, 11.5 LB Each For Concrete Tile Roof .....	5.51

**07 34 Roofing Underlayment (07 30)**

**07 34 00 00-0001 Mechanically Fastened, Roofing Underlayment (07 34)**

Note: Standard slope.

07 34 00 00-0002 SQ 15 LB, Asphalt Saturated Organic Felt Roofing Underlayment, Mechanically Fastened .....	22.34	6.22
<i>For Steep Roof, Over 7 To 12, Add</i>	3.98	
<i>For &gt;50 To 75, Deduct</i>	-0.40	
<i>For &gt;75 To 100, Deduct</i>	-1.00	
<i>For &gt;100 To 200, Deduct</i>	-1.71	
<i>For &gt;200, Deduct</i>	-2.63	
07 34 00 00-0003 SQ 30 LB, Asphalt Saturated Organic Felt Roofing Underlayment, Mechanically Fastened .....	33.65	8.55
<i>For Steep Roof, Over 7 To 12, Add</i>	5.48	
<i>For &gt;50 To 75, Deduct</i>	-0.66	
<i>For &gt;75 To 100, Deduct</i>	-1.59	
<i>For &gt;100 To 200, Deduct</i>	-2.67	
<i>For &gt;200, Deduct</i>	-4.03	
07 34 00 00-0004 SQ 30 LB, Asphalt Saturated Organic Felt Shake Underlayment, Mechanically Fastened .....	36.76	8.55
<i>For Steep Roof, Over 7 To 12, Add</i>	5.48	
<i>For &gt;50 To 75, Deduct</i>	-0.79	
<i>For &gt;75 To 100, Deduct</i>	-1.80	
<i>For &gt;100 To 200, Deduct</i>	-3.02	
<i>For &gt;200, Deduct</i>	-4.46	

**07 Thermal And Moisture Protection****07 30 Steep Slope Roofing****07 34 Roofing Underlayment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 34 00 00-0005	SQ		Fire Rated, Polypropylene Roofing Underlayment, Mechanically Fastened (Rex™ Synfelt) .....	43.59	12.96
			<i>For Steep Roof, Over 7 To 12, Add</i>	8.30	
			<i>For &gt;50 To 75, Deduct</i>	-0.71	
			<i>For &gt;75 To 100, Deduct</i>	-1.88	
			<i>For &gt;100 To 200, Deduct</i>	-3.24	
			<i>For &gt;200, Deduct</i>	-5.07	
07 34 00 00-0006	SQ		17 Mil, Fire Rated, High Temperature, Coated Woven Synthetic Roofing Underlayment, Mechanically Fastened (TITANIUM™ UDL 25).....	47.27	12.96
			<i>For Steep Roof, Over 7 To 12, Add</i>	8.30	
			<i>For &gt;50 To 75, Deduct</i>	-0.85	
			<i>For &gt;75 To 100, Deduct</i>	-2.14	
			<i>For &gt;100 To 200, Deduct</i>	-3.64	
			<i>For &gt;200, Deduct</i>	-5.58	
07 34 00 00-0007	SQ		25 Mil, Fire Rated, High Temperature, Coated Woven Synthetic Roofing Underlayment, Mechanically Fastened (TITANIUM™ UDL 30).....	53.35	12.96
			<i>For Steep Roof, Over 7 To 12, Add</i>	8.30	
			<i>For &gt;50 To 75, Deduct</i>	-1.10	
			<i>For &gt;75 To 100, Deduct</i>	-2.57	
			<i>For &gt;100 To 200, Deduct</i>	-4.31	
			<i>For &gt;200, Deduct</i>	-6.43	
07 34 00 00-0008	SQ		30 Mil, Fire Rated, High Temperature, Coated Woven Synthetic Roofing Underlayment, Mechanically Fastened (TITANIUM™ UDL 50).....	50.31	12.96
			<i>For Steep Roof, Over 7 To 12, Add</i>	8.30	
			<i>For &gt;50 To 75, Deduct</i>	-0.98	
			<i>For &gt;75 To 100, Deduct</i>	-2.35	
			<i>For &gt;100 To 200, Deduct</i>	-3.98	
			<i>For &gt;200, Deduct</i>	-6.01	
<b>07 34 00 00-0009</b>			<b>Self-Adhering, Roofing Underlayment (07 34)</b>		
			Note: Standard slope.		
07 34 00 00-0010	SQ		48 Mil, Fire Rated, Polymeric Asphalt Surfaced, Fiberglass Mat Reinforced, SBS Modified Roofing Underlayment, Self-Adhering (Owens Corning® WeatherLock® Mat) .....	81.86	15.73
			<i>For Steep Roof, Over 7 To 12, Add</i>	10.06	
			<i>For &gt;50 To 75, Deduct</i>	-2.02	
			<i>For &gt;75 To 100, Deduct</i>	-4.32	
			<i>For &gt;100 To 200, Deduct</i>	-7.12	
			<i>For &gt;200, Deduct</i>	-10.20	
07 34 00 00-0011	SQ		60 Mil, Fire Rated, Granule Surfaced, Rubberized Asphalt Adhesive, Roofing Underlayment, Self-Adhering (Grace Basik®).....	117.08	15.73
			<i>For Steep Roof, Over 7 To 12, Add</i>	10.06	
			<i>For &gt;50 To 75, Deduct</i>	-3.43	
			<i>For &gt;75 To 100, Deduct</i>	-6.78	
			<i>For &gt;100 To 200, Deduct</i>	-10.99	
			<i>For &gt;200, Deduct</i>	-15.13	
07 34 00 00-0012	SQ		53 Mil, Fire Rated, Granule Surfaced, Fiberglass Mat Reinforced, SBS Modified Roofing Underlayment, Self-Adhering (Owens Corning® WeatherLock® G) .....	86.21	15.73
			<i>For Steep Roof, Over 7 To 12, Add</i>	10.06	
			<i>For &gt;50 To 75, Deduct</i>	-2.19	
			<i>For &gt;75 To 100, Deduct</i>	-4.62	
			<i>For &gt;100 To 200, Deduct</i>	-7.60	
			<i>For &gt;200, Deduct</i>	-10.81	
07 34 00 00-0013	SQ		65 Mil, Fire Rated, Polyester Non Woven Fabric Surfaced, Fiberglass Mat Reinforced, SBS Modified Roofing Underlayment, Self Adhering (Owens Corning® WeatherLock® Specialty Tile And Metal) .....	81.86	15.73
			<i>For Steep Roof, Over 7 To 12, Add</i>	10.06	
			<i>For &gt;50 To 75, Deduct</i>	-2.02	
			<i>For &gt;75 To 100, Deduct</i>	-4.32	
			<i>For &gt;100 To 200, Deduct</i>	-7.12	
			<i>For &gt;200, Deduct</i>	-10.20	
07 34 00 00-0014	SQ		45 Mil, Fire Rated, High Temperature, Synthetic Polymer Surfaced, Modified Rubberized Asphalt, Roofing Underlayment, Self-Adhering (TITANIUM™ PSU-30) .....	112.00	15.73
			<i>For Steep Roof, Over 7 To 12, Add</i>	10.06	
			<i>For &gt;50 To 75, Deduct</i>	-3.22	
			<i>For &gt;75 To 100, Deduct</i>	-6.43	
			<i>For &gt;100 To 200, Deduct</i>	-10.43	
			<i>For &gt;200, Deduct</i>	-14.42	
07 34 00 00-0015	SQ		25 Mil, Fire Rated, Embossed Surface, Rubberized Asphalt Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Select).....	96.08	15.73
			<i>For Steep Roof, Over 7 To 12, Add</i>	10.06	
			<i>For &gt;50 To 75, Deduct</i>	-2.59	
			<i>For &gt;75 To 100, Deduct</i>	-5.31	
			<i>For &gt;100 To 200, Deduct</i>	-8.68	
			<i>For &gt;200, Deduct</i>	-12.19	
07 34 00 00-0016	SQ		40 Mil, Fire Rated, Embossed Surface, Rubberized Asphalt Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Ice And Water Shield®) .....	137.10	15.73
			<i>For Steep Roof, Over 7 To 12, Add</i>	10.06	
			<i>For &gt;50 To 75, Deduct</i>	-4.23	
			<i>For &gt;75 To 100, Deduct</i>	-8.18	
			<i>For &gt;100 To 200, Deduct</i>	-13.20	
			<i>For &gt;200, Deduct</i>	-17.94	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 34 00 00-0017 SQ 40 Mil, Fire Rated, High Temperature, Embossed Surface, Rubberized Asphalt Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Ice And Water Shield® HT) .....	155.06	15.73
<i>For Steep Roof, Over 7 To 12, Add</i>	10.06	
<i>For &gt;50 To 75, Deduct</i>	-4.95	
<i>For &gt;75 To 100, Deduct</i>	-9.44	
<i>For &gt;100 To 200, Deduct</i>	-15.17	
<i>For &gt;200, Deduct</i>	-20.45	
07 34 00 00-0018 SQ 30 Mil, Fire Rated, High Temperature, Fire Rated, Embossed Surface, Butyl Rubber Based Adhesive, High Density Cross Laminated Polyethylene Reinforcement, Roofing Underlayment, Self-Adhering (Grace Ultra) .....	222.46	15.73
<i>For Steep Roof, Over 7 To 12, Add</i>	10.06	
<i>For &gt;50 To 75, Deduct</i>	-7.64	
<i>For &gt;75 To 100, Deduct</i>	-14.16	
<i>For &gt;100 To 200, Deduct</i>	-22.58	
<i>For &gt;200, Deduct</i>	-29.89	

**07 40 Roofing And Siding Panels** (07)

Note: Includes placement of materials on roof up to 2-1/2 stories. All new roof installations include flood testing.

**07 41 Roof Panels** (07 40)

Note: Includes standard fasteners, grommets, cleats for installation.

**07 41 13 Metal Roof Panels** (07 41)

**07 41 13 00-0001 Exposed Fastener Metal Roofing** (07 41 13)  
 Note: Includes 15 year warranty and all warranties are no dollar limit to include material and labor.

**07 41 13 00-0002 Galvanized Exposed Fastener Metal Roofing** (07 41 13 00-0001)

**07 41 13 00-0003 Galvanized Steel Exposed Fastener Metal Roof Panels** (07 41 13 00-0002)

07 41 13 00-0004 SF 18 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	7.01	0.92
<i>For Fluoropolymer (Kynar) Coating, Add</i>	0.41	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.31	
07 41 13 00-0005 SF 20 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	6.49	0.92
<i>For Fluoropolymer (Kynar) Coating, Add</i>	0.41	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.31	
07 41 13 00-0006 SF 22 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	6.13	0.92
<i>For Fluoropolymer (Kynar) Coating, Add</i>	0.41	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.31	
07 41 13 00-0007 SF 24 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	5.77	0.92
<i>For Fluoropolymer (Kynar) Coating, Add</i>	0.41	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.31	
07 41 13 00-0008 SF 26 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	5.48	0.92
<i>For Fluoropolymer (Kynar) Coating, Add</i>	0.41	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.31	
07 41 13 00-0009 SF 29 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	5.22	0.92
<i>For Fluoropolymer (Kynar) Coating, Add</i>	0.41	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.31	
07 41 13 00-0010 SF 30 Gauge, Corrugated Or Ribbed, Galvanized Exposed Fastener Metal Roof Panels.....	5.12	0.92
<i>For Fluoropolymer (Kynar) Coating, Add</i>	0.41	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.31	

**07 41 13 00-0011 Galvanized Exposed Fastener Metal Roof Accessories** (07 41 13 00-0002)  
 See CSI section 07 41 13 00-0038 for accessories.

07 41 13 00-0012 LF Ridge Flashing For Galvanized Steel Exposed Fastener Roofing .....	33.98	4.08
<i>For Steep Roof, Over 7 To 12, Add</i>	5.18	
<i>For Fluoropolymer (Kynar) Coating, Add</i>	1.78	
07 41 13 00-0013 LF Eave Flashing For Galvanized Steel Exposed Fastener Roofing .....	26.74	4.08
<i>For Steep Roof, Over 7 To 12, Add</i>	5.18	
<i>For Fluoropolymer (Kynar) Coating, Add</i>	1.06	
07 41 13 00-0014 LF Valley Flashing For Galvanized Steel Exposed Fastener Roofing.....	40.96	4.08
<i>For Steep Roof, Over 7 To 12, Add</i>	5.18	
<i>For Fluoropolymer (Kynar) Coating, Add</i>	2.48	
07 41 13 00-0015 LF Hip Flashing For Galvanized Steel Exposed Fastener Roofing .....	34.61	4.08
<i>For Steep Roof, Over 7 To 12, Add</i>	5.18	
<i>For Fluoropolymer (Kynar) Coating, Add</i>	1.84	

**07 41 13 00-0016 Aluminum Exposed Fastener Metal Roofing** (07 41 13 00-0001)

**07 41 13 00-0017 Aluminum Exposed Fastener Metal Roof Panels** (07 41 13 00-0016)

07 41 13 00-0018 SF 0.0155", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels .....	5.19	0.92
<i>For Fluoropolymer (Kynar) Coating, Add</i>	0.41	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.31	
07 41 13 00-0019 SF 0.018", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels .....	5.37	0.92
<i>For Fluoropolymer (Kynar) Coating, Add</i>	0.41	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.31	
07 41 13 00-0020 SF 0.024", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels .....	5.79	0.92
<i>For Fluoropolymer (Kynar) Coating, Add</i>	0.41	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.31	
07 41 13 00-0021 SF 0.032", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels .....	6.36	0.92
<i>For Fluoropolymer (Kynar) Coating, Add</i>	0.41	
<i>For Steep Roof, Over 7 To 12, Add</i>	1.31	

**07 Thermal And Moisture Protection****07 40 Roofing And Siding Panels****07 41 Roof Panels**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0022	SF		0.040", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels ..... <i>For Fluoropolymer (Kynar) Coating, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	6.94 0.41 1.31	0.92
07 41 13 00-0023	SF		0.050", Corrugated Or Ribbed, Aluminum Exposed Fastener Metal Roof Panels ..... <i>For Fluoropolymer (Kynar) Coating, Add</i> <i>For Steep Roof, Over 7 To 12, Add</i>	7.65 0.41 1.31	0.92
<b>07 41 13 00-0024</b>			<b>Aluminum Exposed Fastener Metal Roof Accessories</b> (07 41 13 00-0016)		
07 41 13 00-0025	LF		Ridge Flashing For Aluminum Exposed Fastener Metal Roofing..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Fluoropolymer (Kynar) Coating, Add</i>	32.26 3.26 2.21	4.08
07 41 13 00-0026	LF		Eave Flashing For Aluminum Exposed Fastener Metal Roofing..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Fluoropolymer (Kynar) Coating, Add</i>	23.21 3.26 1.30	4.08
07 41 13 00-0027	LF		Valley Flashing For Aluminum Exposed Fastener Metal Roofing ..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Fluoropolymer (Kynar) Coating, Add</i>	40.99 3.26 3.08	4.08
07 41 13 00-0028	LF		Hip Flashing For Aluminum Exposed Fastener Metal Roofing..... <i>For Steep Roof, Over 7 To 12, Add</i> <i>For Fluoropolymer (Kynar) Coating, Add</i>	33.06 3.26 2.29	4.08
<b>07 41 13 00-0029</b>			<b>Standing Seam Roofs</b> (07 41 13) Note: Includes all profiles of vertical leg and batten style standing seam roofing. Includes all clips, neoprene closures, metal closures, battens, tape sealer, tube sealant, fasteners, vent material, panel starters and cleats. Based on Garland R-Mer Clad or R-Mer Seam architectural roofing, R-Mer Loc architectural/structural roofing, and R-Mer Span structural roofing. Architectural roofing requires a solid substrate and underlayment, requires a minimum 3:12 pitch, and includes a 20 year no dollar limit warranty. Architectural/structural roofing does not require a solid substrate or underlayment, requires a minimum 3:12 pitch, and includes a 25 year no dollar limit warranty. Structural roofing does not require a solid substrate or underlayment, requires a minimum 1/4" per foot slope, and includes a 25 year no dollar limit warranty.		
<b>07 41 13 00-0030</b>			<b>Galvanized Steel Standing Seam Concealed Fastener Roofing</b> (07 41 13 00-0029) Note: All steel is galvanized G90 rated or galvalume. Factory paint finish is Kynar 500, Hylar 5000 or equal PVCFC finish.		
<b>07 41 13 00-0031</b>			<b>Galvanized Steel Standing Seam Concealed Fastener Roofing</b> (07 41 13 00-0030)		
07 41 13 00-0032	SF		Architectural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing ..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	13.50 1.62 1.67 0.70 3.38 2.03 0.34	2.16
07 41 13 00-0033	SF		Architectural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing ..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	14.26 1.62 1.71 0.72 3.57 2.14 0.36	2.16
07 41 13 00-0034	SF		Architectural/Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	12.82 1.62 1.64 0.69 3.21 1.92 0.32	2.16
07 41 13 00-0035	SF		Architectural/Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	13.09 1.62 1.65 0.69 3.27 1.96 0.33	2.16
07 41 13 00-0036	SF		Structural 24 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	13.39 1.62 1.67 0.70 3.35 2.01 0.33	2.16
07 41 13 00-0037	SF		Structural 22 Gauge Galvanized Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	14.50 1.62 1.72 0.72 3.63 2.18 0.36	2.16
<b>07 41 13 00-0038</b>			<b>Accessories For Galvanized Steel Standing Seam Roofing</b> (07 41 13 00-0030)		
07 41 13 00-0039	LF		Ridge Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	35.76 4.86 2.01	6.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0040 LF Eave Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	27.79 4.86 1.85	6.48
07 41 13 00-0041 LF Valley Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing ..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	43.44 4.86 2.16	6.48
07 41 13 00-0042 LF Hip Flashing For Galvanized Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	36.45 4.86 2.02	6.48
<b>07 41 13 00-0043 Aluminum Standing Seam Concealed Fastener Roofing</b> (07 41 13 00-0029) Note: Factory paint finish is Kynar 500, Hylar 5000 or equal PVCF finish.		
<b>07 41 13 00-0044 Aluminum Standing Seam Concealed Fastener Roofing</b> (07 41 13 00-0043)		
07 41 13 00-0045 SF Architectural 0.032" Aluminum Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	14.03 1.62 1.70 0.71 3.51 2.10 0.35	2.16
07 41 13 00-0046 SF Architectural 0.040" Aluminum Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	14.68 1.62 1.73 0.72 3.67 2.20 0.37	2.16
07 41 13 00-0047 SF Architectural/Structural Or Structural 0.032" Aluminum Standing Seam Concealed Fastener Roofing ..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	13.66 1.62 1.68 0.70 3.42 2.05 0.34	2.16
07 41 13 00-0048 SF Architectural/Structural Or Structural 0.040" Aluminum Standing Seam Concealed Fastener Roofing ..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	14.86 1.62 1.74 0.73 3.72 2.23 0.37	2.16
<b>07 41 13 00-0049 Accessories For Aluminum Standing Seam Roofing</b> (07 41 13 00-0043)		
07 41 13 00-0050 LF Ridge Flashing For Aluminum Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	40.47 4.86 2.10	6.48
07 41 13 00-0051 LF Eave Flashing For Aluminum Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	30.51 4.86 1.91	6.48
07 41 13 00-0052 LF Valley Flashing For Aluminum Standing Seam Concealed Fastener Roofing ..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	50.07 4.86 2.30	6.48
07 41 13 00-0053 LF Hip Flashing For Aluminum Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	41.35 4.86 2.12	6.48
<b>07 41 13 00-0054 Copper Standing Seam Concealed Fastener Roofing</b> (07 41 13 00-0029)		
<b>07 41 13 00-0055 Copper Standing Seam Concealed Fastener Roofing</b> (07 41 13 00-0054)		
07 41 13 00-0056 SF Architectural 16 Ounce Copper Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	34.53 2.43 3.23 1.34 8.63 5.18 0.86	3.24
07 41 13 00-0057 SF Architectural 20 Ounce Copper Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	41.13 2.43 3.56 1.47 10.28 6.17 1.03	3.24
<b>07 41 13 00-0058 Accessories For Copper Standing Seam Concealed Fastener Roofing</b> (07 41 13 00-0054)		
07 41 13 00-0059 LF Ridge Flashing For Copper Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	101.87 4.86 3.33	6.48

**07 Thermal And Moisture Protection****07 40 Roofing And Siding Panels****07 41 Roof Panels**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 13 00-0060	LF		Eave Flashing For Copper Standing Seam Concealed Fastener Roofing ..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	60.38 4.86 2.50	6.48
07 41 13 00-0061	LF		Valley Flashing For Copper Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	141.11 4.86 4.12	6.48
07 41 13 00-0062	LF		Hip Flashing For Copper Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	104.97 4.86 3.39	6.48
<b>07 41 13 00-0063</b>			<b>Stainless Steel Standing Seam Concealed Fastener Roofing</b> (07 41 13 00-0029)		
<b>07 41 13 00-0064</b>			<b>Stainless Steel Standing Seam Concealed Fastener Roofing</b> (07 41 13 00-0063)		
07 41 13 00-0065	SF		Architectural 24 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	26.75 2.43 2.84 1.18 6.69 4.01 0.67	3.24
07 41 13 00-0066	SF		Architectural 22 Gauge T304 Stainless Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	30.71 2.43 3.03 1.26 7.68 4.61 0.77	3.24
07 41 13 00-0067	SF		Architectural 24 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	35.42 2.43 3.27 1.36 8.86 5.31 0.89	3.24
07 41 13 00-0068	SF		Architectural 22 Gauge T316 Stainless Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For Panels &lt;16" Wide, Add</i> <i>For 140 MPH Wind Load, Add</i> <i>For Up To 1,500, Add</i> <i>For &gt;1,500 To 5,000, Add</i> <i>For &gt;5,000 To 10,000, Add</i>	41.45 2.43 3.57 1.48 10.36 6.22 1.04	3.24
<b>07 41 13 00-0069</b>			<b>Accessories For Stainless Steel Standing Seam Concealed Fastener Roofing</b> (07 41 13 00-0063)		
07 41 13 00-0070	LF		Ridge Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing ..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	91.07 5.47 3.28	6.48
07 41 13 00-0071	LF		Eave Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing ..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	55.80 5.47 2.58	6.48
07 41 13 00-0072	LF		Valley Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	124.42 5.47 3.95	6.48
07 41 13 00-0073	LF		Hip Flashing For Stainless Steel Standing Seam Concealed Fastener Roofing..... <i>For Steep Roof, Over 6 To 12, Add</i> <i>For 140 MPH Wind Load, Add</i>	93.71 5.47 3.33	6.48
<b>07 41 13 00-0074</b>			<b>Metal Roof Surfacing</b> (07 41 13)		
07 41 13 00-0075	SF		Acrylic, Metal Roof Primer, One Coat ..... <i>For Steep Roof, Over 7 To 12, Add</i>	0.30 0.05	
07 41 13 00-0076	SF		Acrylic Elastomeric, Surface Or Base Coating For Metal Roofing, One Coat ..... Note: 55% solids by volume. <i>For Steep Roof, Over 7 To 12, Add</i>	0.44 0.05	
<b>07 41 33</b>			<b>Plastic Roof Panels</b> (07 41)		
<b>07 41 33 00-0001</b>			<b>Polyvinyl Chloride (PVC) Roofing Panels</b> (07 41 33)		
<b>07 41 33 00-0002</b>			<b>Polyvinyl Chloride (PVC) Roofing Panels</b> (07 41 33 00-0001)		
07 41 33 00-0003	SF		Solid Polyvinyl Chloride (PVC) Roofing Panels, 8" Wide .....	4.96	1.73
07 41 33 00-0004	SF		Solid Polyvinyl Chloride (PVC) Roofing Panels, 10" Wide .....	4.73	1.56
07 41 33 00-0005	SF		Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 8" Wide.....	5.13	1.73
07 41 33 00-0006	SF		Solid Polyvinyl Chloride (PVC) Roofing Panels, Double 10" Wide.....	4.87	1.56
<b>07 41 33 00-0007</b>			<b>Polyvinyl Chloride (PVC) Roofing Accessories</b> (07 41 33 00-0001)		
07 41 33 00-0008	LF		1" "J" Channel, Starter Strip Trim.....	3.08	1.29
07 41 33 00-0009	LF		3-1/2" "J" Channel, Starter Strip Trim.....	4.35	1.29
07 41 33 00-0010	LF		Outside Corner Post, 7/8" Pocket.....	4.72	1.29
07 41 33 00-0011	LF		Inside Corner Post, 7/8" Pocket.....	3.73	1.29



	MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 41 33 00-0012		Fiberglass Roofing Panel (07 41 33)		
07 41 33 00-0013		Corrugated Panels (07 41 33 00-0012)		
07 41 33 00-0014	SF	8 Ounce Corrugated Fiberglass Panel.....	5.14	1.39
07 41 33 00-0015	SF	12 Ounce Corrugated Fiberglass Panel.....	5.91	1.39
07 42		Wall Panels (07 40)		
07 42 13		<b>Metal Wall Panels (07 42)</b>		
07 42 13 19		<b>Insulated Metal Wall Panels (07 42 13)</b>		
07 42 13 19-0001		Insulated Panels For Sash/Window Replacement (07 42 13 19) Note: Porcelain or polymer finish on aluminum panel with polystyrene core.		
07 42 13 19-0002	SF	1" Insulated Panel For Sash Or Window Replacement.....	16.34	4.06
		<i>For Non-Insulated Panels, Deduct</i>	-2.04	
07 42 13 19-0003	SF	1-1/4" Insulated Panel For Sash Or Window Replacement .....	17.77	4.56
		<i>For Non-Insulated Panels, Deduct</i>	-2.18	
07 42 13 19-0004	SF	1-3/4" Insulated Panel For Sash Or Window Replacement .....	19.03	5.07
		<i>For Non-Insulated Panels, Deduct</i>	-2.32	
07 42 13 19-0005	SF	2-1/4" Insulated Panel For Sash Or Window Replacement .....	20.40	5.28
		<i>For Non-Insulated Panels, Deduct</i>	-2.46	
07 42 13 19-0006	SF	3-1/4" Insulated Panel For Sash Or Window Replacement .....	22.97	5.78
		<i>For Non-Insulated Panels, Deduct</i>	-2.86	
07 42 13 19-0007	SF	4-1/4" Insulated Panel For Sash Or Window Replacement .....	26.40	6.39
		<i>For Non-Insulated Panels, Deduct</i>	-3.43	
07 42 13 23		<b>Metal Composite Material Wall Panels (07 42 13)</b>		
07 42 13 23-0001		24 Gauge, Galvanized Steel Insulated Tongue And Groove Metal Siding Panels (07 42 13 23) Note: G-90 galvanized steel, 24 gauge exterior face and 24 gauge interior liner. Galvalume AZ-55 coating designation with texture. Non-CFC polyurethane foam core. Standard color on exterior and interior panels. CF Mesa Profile wall panels as manufactured by Metl-Span Corporation.		
07 42 13 23-0002	SF	2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels .....	15.50	2.35
		<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>	0.24	
		<i>For Premium Exterior Colors, Add</i>	0.12	
07 42 13 23-0003	SF	2-1/2" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels .....	17.56	2.65
		<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>	0.24	
		<i>For Premium Exterior Colors, Add</i>	0.12	
07 42 13 23-0004	SF	3" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels .....	19.33	3.01
		<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>	0.24	
		<i>For Premium Exterior Colors, Add</i>	0.12	
07 42 13 23-0005	SF	4" Polyurethane Foam, 24 Gauge (Each Side), Galvanized Steel Insulated Tongue And Groove Metal Siding Panels .....	21.87	3.98
		<i>For AZ-50 Aluminum-Zinc Coated Exterior, Add</i>	0.24	
		<i>For Premium Exterior Colors, Add</i>	0.12	
07 42 63		<b>Fabricated Wall Panel Assemblies (07 42)</b>		
07 42 63 00-0001		Insulated Freezer And Chiller Panels (07 42 63) Note: Excludes suspension system for ceiling support.		
07 42 63 00-0002		Polyurethane Sandwich Panel (07 42 63 00-0001) Note: With 22 gauge galvanized sheet metal face excludes painting.		
07 42 63 00-0003	SF	2" 22 Gauge Freezer Panel Sheet Metal Both Faces .....	15.35	1.84
07 42 63 00-0004	SF	3" 22 Gauge Freezer Panel Sheet Metal Both Faces .....	16.19	1.84
07 42 63 00-0005	SF	4" 22 Gauge Freezer Panel Sheet Metal Both Faces .....	19.07	1.84
07 42 63 00-0006	SF	5" 22 Gauge Freezer Panel Sheet Metal Both Faces .....	20.58	1.95
07 42 63 00-0007	SF	6" 22 Gauge Freezer Panel Sheet Metal Both Faces .....	21.83	1.95
07 42 63 00-0008	SF	2" 22 Gauge Freezer Panel Sheet Metal One Face (Liner) .....	13.72	1.52
07 42 63 00-0009	SF	3" 22 Gauge Freezer Panel Sheet Metal One Face (Liner) .....	14.84	1.52
07 42 63 00-0010	SF	4" 22 Gauge Freezer Panel Sheet Metal One Face (Liner) .....	17.69	1.63
07 42 63 00-0011	SF	5" 22 Gauge Freezer Panel Sheet Metal One Face (Liner) .....	17.21	1.63
07 42 63 00-0012	SF	6" 22 Gauge Freezer Panel Sheet Metal One Face (Liner) .....	20.10	1.63
07 42 63 00-0013		Polyurethane Sandwich Panel (07 42 63 00-0001) Note: With .040 aluminum baked enamel finish.		
07 42 63 00-0014	SF	2" Freezer Panel 0.040" Aluminum Finish Both Faces .....	10.57	1.84
07 42 63 00-0015	SF	3" Freezer Panel 0.040" Aluminum Finish Both Faces .....	11.21	1.84
07 42 63 00-0016	SF	4" Freezer Panel 0.040" Aluminum Finish Both Faces .....	12.88	1.84
07 42 63 00-0017	SF	5" Freezer Panel 0.040" Aluminum Finish Both Faces .....	13.94	1.95
07 42 63 00-0018	SF	6" Freezer Panel 0.040" Aluminum Finish Both Faces .....	14.70	1.95
07 42 63 00-0019	SF	2" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel) .....	9.43	1.52
07 42 63 00-0020	SF	3" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel) .....	10.06	1.52

**07 Thermal And Moisture Protection****07 40 Roofing And Siding Panels****07 42 Wall Panels**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 42 63 00-0021	SF		4" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	10.76	1.63
07 42 63 00-0022	SF		5" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	12.42	1.63
07 42 63 00-0023	SF		6" Freezer Panel 0.040" Aluminum Finish One Face (Liner Panel)	13.46	1.63
<b>07 46 Siding (07 40)</b>					
<b>07 46 16 Aluminum Siding (07 46)</b>					
Note: Includes all necessary furring strips, trim for corners, windows and doors.					
07 46 16 00-0001			<b>Aluminum Coil Stock Cladding (07 46 16)</b>		
Note: Per SF of board, includes overlappage.					
07 46 16 00-0002	SF		Aluminum Cladding, 0.016" Thick	9.91	3.73
07 46 16 00-0003	SF		Aluminum Cladding, 0.019" Thick	10.00	3.73
07 46 16 00-0004	SF		Aluminum Cladding, 0.024" Thick	10.14	3.73
07 46 16 00-0005			<b>Aluminum Siding Panels (07 46 16)</b>		
07 46 16 00-0006			<b>Corrugated Aluminum Siding Panels (07 46 16 00-0005)</b>		
Note: Includes factory applied PVDF paint finish.					
07 46 16 00-0007	SF		0.019", Painted Finish, Corrugated Aluminum Siding Panel	6.17	2.03
07 46 16 00-0008	SF		0.021", Painted Finish, Corrugated Aluminum Siding Panel	6.37	2.03
07 46 16 00-0009	SF		0.024", Painted Finish, Corrugated Aluminum Siding Panel	6.99	2.03
07 46 16 00-0010	SF		0.032", Painted Finish, Corrugated Aluminum Siding Panel	8.20	2.03
07 46 16 00-0011			<b>V- Beam Aluminum Siding Panels (07 46 16 00-0005)</b>		
Note: Includes factory applied PVDF paint finish.					
07 46 16 00-0012	SF		0.032", Painted Finish, V- Beam Aluminum Siding Panel	8.15	2.03
07 46 16 00-0013	SF		0.040", Painted Finish, V- Beam Aluminum Siding Panel	8.97	2.03
07 46 16 00-0014	SF		0.050", Painted Finish, V- Beam Aluminum Siding Panel	10.90	2.03
07 46 16 00-0015			<b>Box Ribbed Aluminum Siding Panels (07 46 16 00-0005)</b>		
Note: Includes factory applied PVDF paint finish.					
07 46 16 00-0016	SF		0.032", Painted Finish, Box Ribbed Aluminum Siding Panel	8.51	2.03
07 46 16 00-0017	SF		0.040", Painted Finish, Box Ribbed Aluminum Siding Panel	9.30	2.03
07 46 16 00-0018	SF		0.050", Painted Finish, Box Ribbed Aluminum Siding Panel	9.78	2.03
07 46 16 00-0019			<b>Aluminum Soffit And Fascia (07 46 16)</b>		
Note: Excludes J-channel.					
07 46 16 00-0020	LF		6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	3.64	1.42
				<i>For 0.015" Thick, Deduct</i>	-0.04
07 46 16 00-0021	LF		10" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	4.34	1.49
				<i>For 0.015" Thick, Deduct</i>	-0.08
07 46 16 00-0022	LF		1" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	4.67	1.53
				<i>For 0.015" Thick, Deduct</i>	-0.10
07 46 16 00-0023	LF		1'-6" Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	5.63	1.61
				<i>For 0.015" Thick, Deduct</i>	-0.16
07 46 16 00-0024	LF		2' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	6.75	1.77
				<i>For 0.015" Thick, Deduct</i>	-0.23
07 46 16 00-0025	LF		3' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	8.70	1.95
				<i>For 0.015" Thick, Deduct</i>	-0.35
07 46 16 00-0026	LF		4' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	10.69	2.15
				<i>For 0.015" Thick, Deduct</i>	-0.45
07 46 16 00-0027	LF		5' Overhang, 0.019" Thick, Solid Or Vented Aluminum Soffit	12.73	2.36
				<i>For 0.015" Thick, Deduct</i>	-0.57
07 46 16 00-0028	LF		4" Exposure, 0.024" Thick, Aluminum Fascia	4.08	1.39
07 46 16 00-0029	LF		6" Exposure, 0.024" Thick, Aluminum Fascia	4.40	1.42
07 46 16 00-0030	LF		8" Exposure, 0.024" Thick, Aluminum Fascia	5.03	1.46
07 46 16 00-0031	LF		10" Exposure, 0.024" Thick, Aluminum Fascia	5.69	1.49
07 46 16 00-0032			<b>Aluminum Siding Accessories (07 46 16)</b>		
07 46 16 00-0033	LF		3/8" Pocket, Aluminum J-Channel	2.92	1.33
07 46 16 00-0034	LF		1/2" Pocket, Aluminum J-Channel	2.92	1.33
07 46 16 00-0035	LF		3/4" Pocket, Aluminum J-Channel	3.28	1.33
07 46 16 00-0036	LF		3/8" Pocket, Aluminum F-Channel	2.95	1.33
07 46 16 00-0037	LF		1/2" Pocket, Aluminum F-Channel	2.95	1.33
<b>07 46 19 Steel Siding (07 46)</b>					
Note: Includes fasteners, all necessary furring strips, trim for corners, windows and doors.					
07 46 19 00-0001			<b>Steel Siding Panels (07 46 19)</b>		
07 46 19 00-0002			<b>Corrugated Steel Siding Panels (07 46 19 00-0001)</b>		
Note: Includes factory applied PVDF paint finish.					
07 46 19 00-0003	SF		20 Gauge, Painted Finish, Corrugated Steel Siding Panel	8.07	2.03
				<i>For Galvanized Instead Of Painted Steel, Add</i>	1.00





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 19 00-0004 SF 22 Gauge, Painted Finish, Corrugated Steel Siding Panel ..... <i>For Galvanized Instead Of Painted Steel, Add</i>	7.54 0.87	2.03
07 46 19 00-0005 SF 24 Gauge, Painted Finish, Corrugated Steel Siding Panel ..... <i>For Galvanized Instead Of Painted Steel, Add</i>	7.40 0.83	2.03
07 46 19 00-0006 SF 26 Gauge, Painted Finish, Corrugated Steel Siding Panel ..... <i>For Galvanized Instead Of Painted Steel, Add</i>	5.84 0.44	2.03
07 46 19 00-0007 SF 28 Gauge, Painted Finish, Corrugated Steel Siding Panel ..... <i>For Galvanized Instead Of Painted Steel, Add</i>	5.72 0.41	2.03
07 46 19 00-0008 SF 30 Gauge, Painted Finish, Corrugated Steel Siding Panel ..... <i>For Galvanized Instead Of Painted Steel, Add</i>	5.65 0.39	2.03
<b>07 46 19 00-0009 Box Ribbed Steel Siding Panels</b> (07 46 19 00-0001) Note: Includes factory applied PVDF paint finish.		
07 46 19 00-0010 SF 20 Gauge, Painted Finish, Box Ribbed Steel Siding Panel..... <i>For Galvanized Instead Of Painted Steel, Add</i>	7.67 0.90	2.03
07 46 19 00-0011 SF 22 Gauge, Painted Finish, Box Ribbed Steel Siding Panel..... <i>For Galvanized Instead Of Painted Steel, Add</i>	7.43 0.84	2.03
07 46 19 00-0012 SF 24 Gauge, Painted Finish, Box Ribbed Steel Siding Panel..... <i>For Galvanized Instead Of Painted Steel, Add</i>	7.27 0.80	2.03
07 46 19 00-0013 SF 26 Gauge, Painted Finish, Box Ribbed Steel Siding Panel..... <i>For Galvanized Instead Of Painted Steel, Add</i>	7.00 0.73	2.03
07 46 19 00-0014 SF 28 Gauge, Painted Finish, Box Ribbed Steel Siding Panel..... <i>For Galvanized Instead Of Painted Steel, Add</i>	6.44 0.59	2.03
<b>07 46 19 00-0015 Clapboard Steel Siding Panels</b> (07 46 19 00-0001) Note: Includes factory applied PVDF paint finish.		
07 46 19 00-0016 SF 29 Gauge, Painted Finish, Clapboard Steel Siding Panel.....	5.14	1.02
<b>07 46 23 Wood Siding</b> (07 46) Note: Includes all necessary furring strips, trim for corners, windows and doors.		
<b>07 46 23 00-0001 Wood Lap Siding</b> (07 46 23)		
07 46 23 00-0002 LF 8" Wide Rough Sawn Cedar Lap Siding .....	3.55	1.37
07 46 23 00-0003 LF 10" Wide Rough Sawn Cedar Lap Siding .....	3.98	1.46
07 46 23 00-0004 LF 12" Wide Rough Sawn Cedar Lap Siding .....	4.43	1.56
07 46 23 00-0005 LF 6" To 8" Wide Southern Yellow Pine Lap Siding, D Grade .....	3.78	1.37
07 46 23 00-0006 LF 6" To 8" Wide Spruce Lap Siding, #2 Or Better .....	4.19	1.37
07 46 23 00-0007 LF 6" To 8" Wide Western Red Cedar, B Grade Lap Siding .....	5.06	1.37
07 46 23 00-0008 LF 6" To 8" Wide Western Red Cedar, A Grade Lap Siding .....	5.40	1.37
07 46 23 00-0009 LF 6" To 8" Wide Clear Heart Redwood Lap Siding.....	4.92	1.37
07 46 23 00-0010 LF 1" x 8" Cedar Round Or Flat Front Siding, Log Cabin.....	3.61	1.46
07 46 23 00-0011 LF 1" x 8" Cedar Beveled Siding, Channel, Rustic.....	3.61	1.46
<b>07 46 23 00-0012 Tongue And Groove Siding</b> (07 46 23)		
07 46 23 00-0013 SF 1" x 6" Tongue And Groove Southern Yellow Pine Siding.....	3.54	1.37
07 46 23 00-0014 SF 1" x 8" Tongue And Groove Southern Yellow Pine Siding.....	3.90	1.37
07 46 23 00-0015 SF 1" x 6" 105 Southern Yellow Pine Siding .....	3.63	1.37
07 46 23 00-0016 SF 1" x 8" 105 Southern Yellow Pine Siding .....	4.12	1.37
<b>07 46 29 Plywood Siding</b> (07 46) Note: Includes all necessary furring strips, trim for corners, windows and doors.		
<b>07 46 29 00-0001 T-111 Siding</b> (07 46 29)		
07 46 29 00-0002 SF 5/8" T-111, Fine Grade Siding, Paint Ready Applied To Blackboard / Stud..... <i>For Pressure Treated, Add</i>	2.58 0.18	0.72
<b>07 46 33 Plastic Siding</b> (07 46) Note: Includes all necessary furring strips, trim for corners, windows and doors.		
<b>07 46 33 00-0001 Vinyl Siding</b> (07 46 33) Note: Includes standard manufacturer's colors.		
<b>07 46 33 00-0002 Vinyl Siding Panels</b> (07 46 33 00-0001) Note: Excludes J-channels, starter strips and trim.		
<b>07 46 33 00-0003 Horizontal Vinyl Siding Panels</b> (07 46 33 00-0002) Note: Includes single, double or triple profiles. Includes traditional clapboard or dutch lap styles.		
07 46 33 00-0004 SF 7" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	4.26 -0.10 0.10 0.37 0.04	1.74
07 46 33 00-0005 SF 8" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel..... <i>For 0.040" Thick, Deduct</i> <i>For 0.042" Thick, Deduct</i> <i>For 0.046" Thick, Add</i> <i>For Manufacturer's Custom Colors, Add</i>	4.06 -0.10 0.10 0.37 0.04	1.63

**07 Thermal And Moisture Protection****07 40 Roofing And Siding Panels****07 46 Siding**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 33 00-0006	SF		9" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....	3.91	1.56
			<i>For 0.040" Thick, Deduct</i>	-0.10	
			<i>For 0.042" Thick, Deduct</i>	0.10	
			<i>For 0.046" Thick, Add</i>	0.37	
			<i>For Manufacturer's Custom Colors, Add</i>	0.04	
07 46 33 00-0007	SF		10" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....	3.76	1.48
			<i>For 0.040" Thick, Deduct</i>	-0.10	
			<i>For 0.042" Thick, Deduct</i>	0.10	
			<i>For 0.046" Thick, Add</i>	0.37	
			<i>For Manufacturer's Custom Colors, Add</i>	0.04	
07 46 33 00-0008	SF		12" Exposure, 0.044" Thick, Horizontal Vinyl Siding Panel.....	3.54	1.38
			<i>For 0.040" Thick, Deduct</i>	-0.10	
			<i>For 0.042" Thick, Deduct</i>	0.10	
			<i>For 0.046" Thick, Add</i>	0.37	
			<i>For Manufacturer's Custom Colors, Add</i>	0.04	
<b>07 46 33 00-0009</b>			<b>Vertical Vinyl Siding Panels</b> (07 46 33 00-0002)		
07 46 33 00-0010	SF		7" Exposure, 0.048" Thick, Board And Batten, Vinyl Siding Panel.....	4.87	1.74
			<i>For Manufacturer's Custom Colors, Add</i>	0.07	
<b>07 46 33 00-0011</b>			<b>Vinyl Siding Accessories</b> (07 46 33 00-0001)		
07 46 33 00-0012	LF		3/4" Pocket, Outside Corner Post For Vinyl Siding.....	4.67	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.10	
07 46 33 00-0013	LF		1-1/8" Pocket, Outside Corner Post For Vinyl Siding.....	7.74	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.25	
07 46 33 00-0014	LF		3/4" Pocket, Inside Corner Post For Vinyl Siding.....	3.90	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.06	
07 46 33 00-0015	LF		1-1/8" Pocket, Inside Corner Post For Vinyl Siding.....	4.54	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.09	
07 46 33 00-0016	LF		3/8" Pocket, J-Channel For Vinyl Siding.....	3.07	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.03	
07 46 33 00-0017	LF		1/2" Pocket, J-Channel For Vinyl Siding.....	2.92	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.02	
07 46 33 00-0018	LF		5/8" Pocket, J-Channel For Vinyl Siding.....	2.89	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.02	
07 46 33 00-0019	LF		3/4" Pocket, J-Channel For Vinyl Siding.....	2.98	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.03	
07 46 33 00-0020	LF		1" Pocket, J-Channel For Vinyl Siding.....	3.45	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.04	
07 46 33 00-0021	LF		1-1/4" Pocket, J-Channel For Vinyl Siding.....	3.67	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.05	
07 46 33 00-0022	LF		2-1/2" Pocket, J-Channel For Vinyl Siding.....	4.22	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.05	
07 46 33 00-0023	LF		1/2" Pocket, F-Channel For Vinyl Siding.....	2.81	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.04	
07 46 33 00-0024	LF		3/4" Pocket, 3-1/2" Lineals For Vinyl Siding.....	6.04	1.84
			<i>For Manufacturer's Custom Colors, Add</i>	0.12	
07 46 33 00-0025	LF		3/4" Pocket, 5" Lineals For Vinyl Siding.....	6.26	1.84
			<i>For Manufacturer's Custom Colors, Add</i>	0.13	
07 46 33 00-0026	LF		1-1/8" Pocket, 3-1/2" Lineals For Vinyl Siding.....	6.73	1.84
			<i>For Manufacturer's Custom Colors, Add</i>	0.15	
07 46 33 00-0027	LF		3/8" Pocket, 1-7/8" H-Mold For Vinyl Siding.....	3.77	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.06	
07 46 33 00-0028	LF		Vinyl Starter Strip For Vinyl Siding.....	4.45	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.09	
07 46 33 00-0029	LF		Undersill Trim For Vinyl Siding.....	3.96	1.33
			<i>For Manufacturer's Custom Colors, Add</i>	0.07	
<b>07 46 33 00-0030</b>			<b>Vinyl Soffit And Fascia</b> (07 46 33 00-0001)		
			Note: Excludes J-channel.		
07 46 33 00-0031	LF		6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	3.57	1.42
			<i>For 0.038" Thick, Deduct</i>	-0.33	
			<i>For 0.040" Thick, Deduct</i>	-0.26	
			<i>For Manufacturer's Custom Colors, Add</i>	0.04	
07 46 33 00-0032	LF		10" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	4.21	1.49
			<i>For 0.038" Thick, Deduct</i>	-0.54	
			<i>For 0.040" Thick, Deduct</i>	-0.45	
			<i>For Manufacturer's Custom Colors, Add</i>	0.06	
07 46 33 00-0033	LF		1" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	4.52	1.53
			<i>For 0.038" Thick, Deduct</i>	-0.65	
			<i>For 0.040" Thick, Deduct</i>	-0.54	
			<i>For Manufacturer's Custom Colors, Add</i>	0.07	
07 46 33 00-0034	LF		1'-6" Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	5.40	1.61
			<i>For 0.038" Thick, Deduct</i>	-0.98	
			<i>For 0.040" Thick, Deduct</i>	-0.82	
			<i>For Manufacturer's Custom Colors, Add</i>	0.11	
07 46 33 00-0035	LF		2' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit.....	6.44	1.77
			<i>For 0.038" Thick, Deduct</i>	-1.33	
			<i>For 0.040" Thick, Deduct</i>	-1.10	
			<i>For Manufacturer's Custom Colors, Add</i>	0.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 33 00-0036 LF 3' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit ..... <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	8.24 -1.98 -1.66 0.22	1.95
07 46 33 00-0037 LF 4' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit ..... <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	10.08 -2.65 -2.22 0.29	2.15
07 46 33 00-0038 LF 5' Overhang, 0.044" Thick, Solid Or Vented Vinyl Soffit ..... <i>For 0.038" Thick, Deduct</i> <i>For 0.040" Thick, Deduct</i> <i>For Manufacturer's Custom Colors, Add</i>	11.96 -3.33 -2.78 0.36	2.36
07 46 33 00-0039 LF 4" Exposure, Vinyl Fascia ..... <i>For Manufacturer's Custom Colors, Add</i>	3.64 0.04	1.39
07 46 33 00-0040 LF 6" Exposure, Vinyl Fascia ..... <i>For Manufacturer's Custom Colors, Add</i>	3.96 0.06	1.42
07 46 33 00-0041 LF 8" Exposure, Vinyl Fascia ..... <i>For Manufacturer's Custom Colors, Add</i>	3.98 0.05	1.46
07 46 33 00-0042 LF 10" Exposure, Vinyl Fascia ..... <i>For Manufacturer's Custom Colors, Add</i>	4.42 0.07	1.49
<b>07 46 33 00-0043</b> <b>Fiberglass Siding</b> <small>(07 46 33)</small>		
<b>07 46 33 00-0044</b> <b>Corrugated Panels</b> <small>(07 46 33 00-0043)</small>		
07 46 33 00-0045 SF 6 Ounce Corrugated Fiberglass Panels .....	5.71	2.04
07 46 33 00-0046 SF 8 Ounce Corrugated Fiberglass Panels .....	6.03	1.84
07 46 33 00-0047 SF 12 Ounce Corrugated Fiberglass Panels .....	6.61	1.84
<b>07 46 33 00-0048</b> <b>Flat Panels</b> <small>(07 46 33 00-0043)</small>		
07 46 33 00-0049 SF 6 Ounce Flat Fiberglass Panels .....	5.50	1.84
07 46 33 00-0050 SF 8 Ounce Flat Fiberglass Panels .....	6.03	1.84
<b>07 46 46</b> <b>Fiber-Cement Siding</b> <small>(07 46)</small>		
<small>Note: Smooth or patterns. Includes sealer and primer.</small>		
<b>07 46 46 00-0001</b> <b>5/16" Thick, Fiber Cement Lap Siding</b> <small>(07 46 46)</small>		
07 46 46 00-0002 SF 5-1/4" Board with 4" Exposure, 5/16" Thick, Fiber Cement Lap Siding .....	5.60	2.15
07 46 46 00-0003 SF 6-1/4" Board with 5" Exposure, 5/16" Thick, Fiber Cement Lap Siding .....	5.33	2.04
07 46 46 00-0004 SF 7-1/4" Board with 6" Exposure, 5/16" Thick, Fiber Cement Lap Siding .....	5.20	1.99
07 46 46 00-0005 SF 8-1/4" Board with 7" Exposure, 5/16" Thick, Fiber Cement Lap Siding .....	5.08	1.94
07 46 46 00-0006 SF 9-1/2" Board with 8" Exposure, 5/16" Thick, Fiber Cement Lap Siding .....	4.84	1.84
07 46 46 00-0007 SF 12" Board with 10-3/4" Exposure, 5/16" Thick, Fiber Cement Lap Siding .....	4.61	1.74
07 46 46 00-0008 LF Starter Strip, Fiber Cement Lap Siding .....	1.22	0.51
<b>07 46 46 00-0009</b> <b>Fiber Cement Shingle Siding</b> <small>(07 46 46)</small>		
07 46 46 00-0010 SF Fiber Cement Shingle Siding .....	7.77	1.89
<b>07 46 46 00-0011</b> <b>Fiber Cement Vertical Panel Siding</b> <small>(07 46 46)</small>		
07 46 46 00-0012 SF Fiber Cement Vertical Panel Siding .....	4.09	1.53
<b>07 46 46 00-0013</b> <b>Fiber Cement Trim Boards</b> <small>(07 46 46)</small>		
<b>07 46 46 00-0014</b> <b>7/16" Thick, Fiber Cement Trim Boards</b> <small>(07 46 46 00-0013)</small>		
07 46 46 00-0015 LF 4" Wide, 7/16" Thick, Fiber Cement Trim Board .....	2.67	1.02
07 46 46 00-0016 LF 6" Wide, 7/16" Thick, Fiber Cement Trim Board .....	3.31	1.12
07 46 46 00-0017 LF 8" Wide, 7/16" Thick, Fiber Cement Trim Board .....	3.90	1.22
07 46 46 00-0018 LF 12" Wide, 7/16" Thick, Fiber Cement Trim Board .....	5.02	1.43
<b>07 46 46 00-0019</b> <b>3/4" Thick Fiber Cement Trim Boards</b> <small>(07 46 46 00-0013)</small>		
07 46 46 00-0020 LF 4" Wide, 3/4" Thick, Fiber Cement Trim Board .....	2.78	1.02
07 46 46 00-0021 LF 6" Wide, 3/4" Thick, Fiber Cement Trim Board .....	3.47	1.12
07 46 46 00-0022 LF 8" Wide, 3/4" Thick, Fiber Cement Trim Board .....	4.17	1.22
07 46 46 00-0023 LF 12" Wide, 3/4" Thick, Fiber Cement Trim Board .....	4.44	1.43
<b>07 46 46 00-0024</b> <b>1" Thick Fiber Cement Trim Boards</b> <small>(07 46 46 00-0013)</small>		
07 46 46 00-0025 LF 4" Wide, 1" Thick, Fiber Cement Trim Board .....	2.91	1.02
07 46 46 00-0026 LF 6" Wide, 1" Thick, Fiber Cement Trim Board .....	3.70	1.12
07 46 46 00-0027 LF 8" Wide, 1" Thick, Fiber Cement Trim Board .....	4.51	1.22
07 46 46 00-0028 LF 12" Wide, 1" Thick, Fiber Cement Trim Board .....	5.89	1.43
<b>07 46 46 00-0029</b> <b>Fiber Cement Fascia Board</b> <small>(07 46 46)</small>		
07 46 46 00-0030 LF 5/4" x 3-1/2" Fiber Cement Fascia Board .....	5.26	2.03

**07 Thermal And Moisture Protection****07 40 Roofing And Siding Panels**

07 46 Siding



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 46 46 00-0031 LF 5/4" x 5-1/2" Fiber Cement Fascia Board.....	6.41	2.25
07 46 46 00-0032 LF 5/4" x 7-1/4" Fiber Cement Fascia Board.....	7.01	2.25
07 46 46 00-0033 LF 5/4" x 11-1/4" Fiber Cement Fascia Board.....	9.12	2.64
<b>07 46 46 00-0034 Fiber Cement Soffit Boards (07 46 46)</b>		
07 46 46 00-0035 SF 1/4" Thick, Non Vented Fiber Cement Soffit.....	5.07	1.46
07 46 46 00-0036 SF 1/4" Thick, Vented Fiber Cement Soffit.....	5.34	1.46
<b>07 46 63 Fabricated Panel Assemblies With Siding (07 46)</b>		
<b>07 46 63 00-0001 Metal Liner Panels (07 46 63)</b>		
<b>07 46 63 00-0002 Galvanized Metal Liner Panels (07 46 63 00-0001)</b>		
07 46 63 00-0003 SF 24 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel.....	7.57	1.81
07 46 63 00-0004 SF 22 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel.....	8.18	1.81
07 46 63 00-0005 SF 20 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel.....	9.25	1.81
07 46 63 00-0006 SF 18 Gauge, 1-3/8" Thick Galvanized Metal Liner Panel.....	9.36	1.81
<b>07 50 Membrane Roofing (07)</b>		
Note: Includes placement of materials on roof up to 2-1/2 stories. See CSI section 07 22 16 00-0000 for insulation, 07 60 00 00-0000 for additional flashing, sheet metal and trim, 07 70 00 00-0000 for additional roof accessories.		
<b>07 51 Built-Up Bituminous Roofing (07 50)</b>		
<b>07 51 13 Built-Up Asphalt Roofing (07 51)</b>		
<b>07 51 13 00-0001 Built-Up Asphalt Roofing Components (07 51 13)</b>		
<b>07 51 13 00-0002 Built-Up Asphalt Membrane Roofing (07 51 13 00-0001)</b>		
Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0066 for built-up roofing demolition.		
<b>07 51 13 00-0003 Cold Adhesive Applied, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002)</b>		
Note: Includes applying cold adhesive and embedding the membrane.		
<b>07 51 13 00-0004 Cold Adhesive Applied, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0003)</b>		
07 51 13 00-0005 SQ Type IV, Asphalt Coated Fiberglass Ply Sheet, Cold Adhesive Applied.....	62.29	
For Up To 10, Add	11.34	
For >10 To 25, Add	8.60	
07 51 13 00-0006 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Cold Adhesive Applied.....	152.66	
For Up To 10, Add	15.86	
For >10 To 25, Add	13.12	
<b>07 51 13 00-0007 Cold Adhesive Applied, Built-Up Asphalt Roofing Flashing (07 51 13 00-0003)</b>		
07 51 13 00-0008 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Cold Adhesive Applied.....	4.05	
<b>07 51 13 00-0009 Hot-Mopped, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002)</b>		
Note: Includes mopping hot asphalt and embedding the membrane.		
<b>07 51 13 00-0010 Hot-Mopped, Built-Up Asphalt Roofing Base, Ply And Cap Sheets (07 51 13 00-0009)</b>		
07 51 13 00-0011 SQ Type IV, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped.....	48.97	
For Up To 10, Add	10.67	
For >10 To 25, Add	7.93	
07 51 13 00-0012 SQ Type VI, Asphalt Coated Fiberglass Ply Sheet, Hot-Mopped.....	51.55	
For Up To 10, Add	10.80	
For >10 To 25, Add	8.06	
07 51 13 00-0013 SQ Fine Mineral Surfaced, Asphalt Coated Fiberglass Base Sheet, Hot-Mopped.....	54.48	
For Up To 10, Add	10.95	
For >10 To 25, Add	8.21	
07 51 13 00-0014 SQ Asphalt Coated Fiberglass Venting Base Sheet, Hot-Mopped.....	86.95	
For Up To 10, Add	12.57	
For >10 To 25, Add	9.83	
07 51 13 00-0015 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Hot-Mopped.....	139.34	
For Up To 10, Add	15.19	
For >10 To 25, Add	12.45	
07 51 13 00-0016 SQ Granule Surfaced, Asphalt Coated Fiberglass Cap Sheet, Hot-Mopped.....	109.43	
For Up To 10, Add	14.48	
For >10 To 25, Add	11.48	
<b>07 51 13 00-0017 Hot-Mopped, Built-Up Asphalt Roofing Flashing (07 51 13 00-0009)</b>		
07 51 13 00-0018 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Hot-Mopped.....	2.84	
<b>07 51 13 00-0019 Mechanically Fastened, Built-Up Asphalt Membrane Roofing (07 51 13 00-0002)</b>		
Note: Includes fasteners.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>07 51 13 00-0020 Mechanically Fastened, Built-Up Asphalt Roofing Base, Ply And Cap Sheets</b> <small>(07 51 13 00-0019)</small>		
07 51 13 00-0021 SQ Type VI, Asphalt Coated Fiberglass Ply Sheet, Mechanically Fastened.....	45.20	
For Up To 10, Add	6.37	
For >10 To 25, Add	5.00	
07 51 13 00-0022 SQ Asphalt Coated Fiberglass Venting Base Sheet, Mechanically Fastened.....	80.60	
For Up To 10, Add	8.14	
For >10 To 25, Add	6.77	
07 51 13 00-0023 SQ Asphalt Coated Polyester And Fiberglass Scrim, Base Or Ply Sheet, Mechanically Fastened .....	132.99	
For Up To 10, Add	10.76	
For >10 To 25, Add	9.39	
<b>07 51 13 00-0024 Mechanically Fastened, Built-Up Asphalt Roofing Flashing</b> <small>(07 51 13 00-0019)</small>		
07 51 13 00-0025 SF Asphalt Coated Polyester And Fiberglass Scrim, Flashing, Mechanically Fastened .....	3.28	
<b>07 51 13 00-0026 Asphalt Saturated Organic Felt</b> <small>(07 51 13 00-0001)</small>		
<b>07 51 13 00-0027 Cold Adhesive Applied, Asphalt Saturated Organic Felt</b> <small>(07 51 13 00-0026)</small>		
Note: Includes applying cold adhesive and embedding the felt.		
07 51 13 00-0028 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied.....	60.68	
For Up To 10, Add	11.26	
For >10 To 25, Add	8.52	
07 51 13 00-0029 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Cold Adhesive Applied .....	67.33	
For Up To 10, Add	11.59	
For >10 To 25, Add	8.85	
<b>07 51 13 00-0030 Hot-Mopped, Asphalt Saturated Organic Felt</b> <small>(07 51 13 00-0026)</small>		
Note: Includes mopping hot asphalt and embedding the felt.		
07 51 13 00-0031 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped .....	47.36	
For Up To 10, Add	10.59	
For >10 To 25, Add	7.85	
07 51 13 00-0032 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Hot-Mopped .....	54.00	
For Up To 10, Add	10.93	
For >10 To 25, Add	8.18	
<b>07 51 13 00-0033 Mechanically Fastened, Asphalt Saturated Organic Felt</b> <small>(07 51 13 00-0026)</small>		
Note: Includes fasteners.		
07 51 13 00-0034 SQ 15 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened .....	23.69	
For Up To 10, Add	5.29	
For >10 To 25, Add	3.92	
07 51 13 00-0035 SQ 30 LB, Asphalt Saturated Organic Base Or Ply Sheet, Mechanically Fastened .....	30.34	
For Up To 10, Add	5.63	
For >10 To 25, Add	4.26	
<b>07 51 13 00-0036 Surfacing</b> <small>(07 51 13 00-0001)</small>		
07 51 13 00-0037 SQ 400 LB/SQ Gravel Roofing Ballast, Set In Hot Asphalt Flood Coat .....	108.92	
For Up To 10, Add	26.01	
For >10 To 25, Add	19.16	
07 51 13 00-0038 SQ 400 LB/SQ Gravel Roofing Ballast, Set In Cold Adhesive Flood Coat.....	148.02	
For Up To 10, Add	27.97	
For >10 To 25, Add	21.11	
07 51 13 00-0039 CY Gravel Roofing Ballast, Spread To Desired Thickness .....	122.58	
Note: Excludes hot asphalt or cold adhesive.		
07 51 13 00-0040 SQ Protective Polypropylene Fabric Mat, Loose Laid.....	30.64	
Note: Installed as a separator mat (under membrane), a crushed stone mat (above membrane) or as a stone separator mat in ballasted systems.		
For Up To 10, Add	4.25	
For >10 To 25, Add	3.34	
07 51 13 00-0041 SQ Clay-Stabilized, Water-Based Asphalt Emulsion With Reinforcing Fibers, Weather-Proofing Surface Coating, Price Per Coat .....	64.65	
Note: Protective coating for use over built-up, SBS and APP modified bitumen, metal, concrete and wood roofs.		
For Up To 10, Add	8.17	
For >10 To 25, Add	6.52	
07 51 13 00-0042 SQ Fibrated Aluminum, Asphalt-Based, Reflective Weather-Proofing Surface Coating, Price Per Coat.....	58.18	
Note: Protective and reflective coating for use over built-up, SBS and APP modified bitumen and metal roofs.		
For Up To 10, Add	7.84	
For >10 To 25, Add	6.20	
07 51 13 00-0043 SQ Aluminum Flakes And Reinforcing Fibers Suspended In Emulsified Asphalt, Reflective Surface Coating, Price Per Coat.....	75.83	
Note: Reflective coating for use over smooth-surfaced built-up roofs.		
For Up To 10, Add	8.73	
For >10 To 25, Add	7.08	
07 51 13 00-0044 SQ 100% Acrylic Elastomeric, Reflective Surface Coating, Price Per Coat.....	76.41	
Note: Reflective coating for use over built-up, SBS and APP modified bitumen roofs. For use on smooth or granule surfaced roofing systems.		
For Up To 10, Add	8.76	
For >10 To 25, Add	7.11	
For Installation Over Granule Surfaced Asphalt Roof Systems, Add	21.40	

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0045	SQ		100% Acrylic Elastomeric, Bleed Blocking Base Coating, Price Per Coat.....78.78 Note: Bleed blocking coating for use over built-up, SBS and APP modified bitumen roofs. For use on smooth or granule surfaced roofing systems.		
			<i>For Up To 10, Add</i>	8.87	
			<i>For &gt;10 To 25, Add</i>	7.23	
			<i>For Installation Over Granule Surfaced Asphalt Roof Systems, Add</i>	22.19	
07 51 13 00-0046	SF		Ceramic Coated Roofing Granules, Hand Broadcast.....1.48 Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane repairs, etc.		
07 51 13 00-0047	SF		Energy Star, Ceramic Coated Roofing Granules, Hand Broadcast.....2.99 Note: For application over liquid flashing/membranes, asphalt bleed-out areas, modified or BUR membrane repairs, etc.		
<b>07 51 13 00-0048</b>			<b>Walkway Pads</b> (07 51 13 00-0001) Note: Set in hot asphalt or cold adhesive.		
07 51 13 00-0049	LF		5/16" Thick, 32" Wide, Skid Resistant, SBS Modified Bitumen Walkway Pad.....15.89		
07 51 13 00-0050	LF		1/2" Thick, 32" Wide, Skid Resistant, SBS Modified Bitumen Walkway Pad .....18.68		
<b>07 51 13 00-0051</b>			<b>Cant And Tapered Edge Strips</b> (07 51 13 00-0001)		
07 51 13 00-0052	LF		2" x 2" Perlite Cant Strip .....3.04		
07 51 13 00-0053	LF		3" x 3" Perlite Cant Strip .....3.11		
07 51 13 00-0054	LF		4" x 4" Perlite Cant Strip .....3.41		
07 51 13 00-0055	LF		3" x 3" Pressure Treated Wood Cant Strip, Cut Diagonally .....3.20		
07 51 13 00-0056	LF		4" x 4" Pressure Treated Wood Cant Strip, Cut Diagonally .....3.31		
07 51 13 00-0057	LF		1/2" x 6" Perlite Tapered Edge Strip .....3.42		
07 51 13 00-0058	LF		1/2" x 12" Perlite Tapered Edge Strip .....3.77		
07 51 13 00-0059	LF		1" x 12" Perlite Tapered Edge Strip .....3.86		
07 51 13 00-0060	LF		1" x 24" Perlite Tapered Edge Strip .....4.22		
07 51 13 00-0061	LF		1-1/2" x 12" Perlite Tapered Edge Strip .....4.19		
07 51 13 00-0062	LF		1-1/2" x 18" Perlite Tapered Edge Strip .....4.85		
07 51 13 00-0063	LF		1-1/2" x 24" Perlite Tapered Edge Strip .....5.32		
<b>07 51 13 00-0064</b>			<b>Asphalt Primer</b> (07 51 13 00-0001)		
07 51 13 00-0065	SQ		Asphalt Primer For Roofing Systems .....24.81 Note: Foundation coating for hot-mopped and cold applied asphalt coatings, roof cements, and asphalt based roof adhesives. For use on weathered roofing, asphalt, concrete, gypsum, masonry, block, brick and metal surfaces.		
<b>07 51 13 00-0066</b>			<b>Demolish Built-Up Roofing</b> (07 51 13 00-0001) Note: For removing any asphalt, coal tar or modified bitumen roofing system, including surfacing material down to the insulation or recovery board. Includes removal of any basic roof accessories and any sheet metals; except special existing conditions (mechanical equipment piping, electrical, ducts, etc.). See CSI section 01 74 19 00-0000 for chutes, dumpsters and hauling.		
07 51 13 00-0067	SQ		Demolish Gravel/Slag Surfaced, Built Up Roofing System .....290.01		
			<i>For Up To 10, Add</i>	71.99	
			<i>For &gt;10 To 25, Add</i>	43.19	
07 51 13 00-0068	SQ		Demolish Cap Sheet Surfaced, Built Up Roofing System .....223.72 Note: Includes protective surfacing.		
			<i>For Up To 10, Add</i>	55.53	
			<i>For &gt;10 To 25, Add</i>	33.32	
<b>07 51 13 00-0069</b>			<b>Roofing System Warranty</b> (07 51 13 00-0001) Note: The warranty tasks below are only to be used in conjunction with the built-up bituminous and modified bituminous membrane roofing sections. The appropriate task is to be applied to the completed roofing membrane systems, not individual components. All warranties are no dollar limit to include material, equipment and labor.		
07 51 13 00-0070	EA		Up To 70 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....350.00		
07 51 13 00-0071	SQ		>70 SQ, 10 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....5.00		
07 51 13 00-0072	EA		Up To 50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....400.00		
07 51 13 00-0073	SQ		>50 SQ, 15 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....8.00		
07 51 13 00-0074	EA		Up To 50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....550.00		
07 51 13 00-0075	SQ		>50 SQ, 20 Year, Built-Up Bituminous Or Modified Bituminous Membrane, Roofing System Warranty .....11.00		
<b>07 51 13 00-0076</b>			<b>Built-Up Roofing Components (Tremco)</b> (07 51 13) Note: All tasks presented as a single layer. Adhesives are priced separately.		
<b>07 51 13 00-0077</b>			<b>Cold Applied BUR Base Plies And Ply Sheets</b> (07 51 13 00-0076)		
07 51 13 00-0078	SQ		BURmastic Composite Ply, Cold Applied BUR Component .....79.67 Note: Asphalt coated polyester/glass/polyester trilaminate reinforced ply sheet. Type II. 55 mils. Also used as a hot or cold applied base sheet.		
07 51 13 00-0079	SQ		BURmastic Premium Composite Ply, Cold Applied BUR Component .....96.20 Note: Asphalt coated polyester/glass/polyester trilaminate reinforced high strength ply sheet. Type II. 57 mil. Also used as a hot or cold applied base sheet.		
07 51 13 00-0080	SQ		BURmastic Supreme Composite Ply, Cold Applied BUR Component .....106.30 Note: Asphalt coated polyester/glass/polyester trilaminate reinforced high strength ply sheet. Type II. 51 mil. Also used as a hot or cold applied base sheet.		
07 51 13 00-0081	SQ		28 LB BURmastic Glass Ply, Cold Applied BUR Component .....24.73 Note: Asphalt coated fiberglass base or ply sheet. Type II.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0082 SQ 33 LB BURmastic Glass Ply, Cold Applied BUR Component ..... Note: Asphalt coated fiberglass base or ply sheet. Type II.	35.30	
07 51 13 00-0083 SQ POWERply Modified HE Base Sheet, Hot Or Cold Applied BUR Component ..... Note: Smooth surfaced, high elongation polyester reinforced modified bitumen base sheet. Type I, Grade S. 94 mil.	142.68	
07 51 13 00-0084 SQ POWERply Modified Heavy Duty Base Sheet, Hot Applied BUR Component ..... Note: A smooth surfaced, non woven fiberglass/s scrim fiberglass bilaminate reinforced modified bitumen membrane. 120 mil.	132.08	
<b>07 51 13 00-0085 Hot Or Cold Applied Modified Bitumen Cap Membrane (07 51 13 00-0076)</b>		
07 51 13 00-0086 SQ POWERply Standard Smooth Cap Membrane, Hot Or Cold Applied BUR Component ..... Note: Fiberglass reinforced modified bitumen membrane. Type I, Grade S. 80 mils. Also used as a hot or cold applied ply.	83.01	
07 51 13 00-0087 SQ POWERply Premium Smooth Cap Membrane, Hot Or Cold Applied BUR Component ..... Note: Polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 90 mils. Also used as a hot or cold applied ply.	214.94	
07 51 13 00-0088 SQ POWERply Supreme Smooth Cap Membrane, Hot Or Cold Applied BUR Component ..... Note: Polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 98 mils. Also used as a hot or cold applied ply.	353.58	
07 51 13 00-0089 SQ POWERply Standard Cap Membrane, Hot Or Cold Applied BUR Component ..... Note: Granule surface, fiberglass reinforced modified bitumen cap sheet membrane. 120 mils. Black or white surface.	97.69	
07 51 13 00-0090 SQ POWERply Standard FR Cap Membrane, Hot Or Cold Applied BUR Component ..... Note: Fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane. Type I, Grade G. 120 mils.	147.65	
07 51 13 00-0091 SQ POWERply Premium FR Cap Membrane, Hot Or Cold Applied BUR Component ..... Note: Fire rated, granule surfaced, polyester/glass bilaminate reinforced modified bitumen membrane. Type III, Grade S. 160 mils. Black or white surface.	352.05	
07 51 13 00-0092 SQ POWERply Standard FR GT24W Cap Membrane, Hot Or Cold Applied BUR Component ..... Note: Highly reflective, fire rated, granule surfaced, fiberglass reinforced modified bitumen membrane meeting California's Title 24 requirements. Type I, Grade G. 120 mils.	257.84	
07 51 13 00-0093 SQ POWERply HE FR Cap Sheet, Hot Applied BUR Component ..... Note: High elongation, fire rated, granule surfaced, polyester reinforced modified bitumen membrane. 160 mils.	252.27	
<b>07 51 13 00-0094 Self Adhesive Base Plies And Ply Sheets (07 51 13 00-0076)</b>		
07 51 13 00-0095 SQ POWERply SA Base Sheet, Self Adhesive Roofing ..... Note: A self adhesive, fiberglass reinforced SBS modified bitumen base sheet/underlayment. Type 1, Grade S. 80 mils.	146.99	
07 51 13 00-0096 SQ POWERply SA FR Membrane, Self Adhesive Roofing ..... Note: A fire rated, granule surfaced, polyester reinforced, self adhesive SBS modified bitumen membrane. Type I, Grade G. 130 mils.	294.12	
<b>07 51 13 00-0097 Flashings (07 51 13 00-0076)</b>		
07 51 13 00-0098 LF 11-1/2" Hypalon Elastomeric Flashing ..... Note: 45 mils.	10.21	
07 51 13 00-0099 LF 19" Hypalon Elastomeric Flashing ..... Note: 45 mils.	16.77	
07 51 13 00-0100 LF 25" Hypalon Elastomeric Flashing ..... Note: 45 mils.	22.29	
07 51 13 00-0101 LF 38" Hypalon Elastomeric Flashing ..... Note: 45 mils.	32.55	
07 51 13 00-0102 LF 60-1/2" Hypalon Elastomeric Flashing ..... Note: 45 mils.	53.85	
07 51 13 00-0103 LF 12" TRA Elastomeric Flashing Membrane ..... Note: Polyester reinforced flashing membrane. 45 mils.	8.34	
07 51 13 00-0104 LF 18" TRA Elastomeric Flashing Membrane ..... Note: Polyester reinforced flashing membrane. 45 mils.	13.77	
07 51 13 00-0105 LF 24" TRA Elastomeric Flashing Membrane ..... Note: Polyester reinforced flashing membrane. 45 mils.	18.36	
07 51 13 00-0106 LF 36" TRA Elastomeric Flashing Membrane ..... Note: Polyester reinforced flashing membrane. 45 mils.	26.69	
07 51 13 00-0107 LF 60" TRA Elastomeric Flashing Membrane ..... Note: Polyester reinforced flashing membrane. 45 mils.	45.03	
07 51 13 00-0108 LF 4" BURmesh Fabric ..... Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	2.72	
07 51 13 00-0109 LF 6" BURmesh Fabric ..... Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	2.81	
07 51 13 00-0110 LF 12" BURmesh Fabric ..... Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	3.91	
07 51 13 00-0111 LF 36" BURmesh Fabric ..... Note: Glass membrane for reinforcement or repair of roof membranes and flashings.	10.03	
<b>07 51 13 00-0112 Cold Applied Adhesives (07 51 13 00-0076)</b>		
07 51 13 00-0113 SQ BURmastic Inter-Ply Cold Applied Adhesive.....	95.85	
07 51 13 00-0114 SQ BURmastic Flood Coat Cold Applied Adhesive .....	157.51	
07 51 13 00-0115 SQ BURmastic SF Inter-Ply Cold Applied Adhesive .....	120.63	
07 51 13 00-0116 SQ BURmastic LV Inter-Ply Cold Applied Adhesive .....	95.85	
07 51 13 00-0117 SQ POWERply Standard Inter-Ply Cold Applied Adhesive.....	51.21	
07 51 13 00-0118 SQ POWERply Standard Flood Coat Cold Applied Adhesive.....	110.25	
07 51 13 00-0119 SQ POWERply White On White Cold Applied Adhesive.....	108.90	

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 51 Built-Up Bituminous Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0120 SQ Rock-It Cold Applied Adhesive For Gravel Applications .....	289.73	
07 51 13 00-0121 SQ FAS-n-FREE Cold Applied Adhesive (Beads 12" OC) .....	159.34	
Note: For insulation only.		
07 51 13 00-0122 SQ ECOlastic Cold Applied Adhesive .....	182.64	
<b>07 51 13 00-0123 Hot Applied Adhesives (07 51 13 00-0076)</b>		
07 51 13 00-0124 SQ Premium III Asphalt Inter-Ply Hot Applied Adhesive .....	38.43	
07 51 13 00-0125 SQ Premium III Asphalt Flood Coat Hot Applied Adhesive .....	67.16	
<b>07 51 13 00-0126 Flashings Adhesives (07 51 13 00-0076)</b>		
07 51 13 00-0127 LF Sheeting Bond Flashing Adhesive .....	13.90	
Note: Used to attach Hypalon sheeting to asphalt or coal-tar roofing membranes.		
07 51 13 00-0128 LF Polyroof SF Flashing Mastic .....	17.44	
Note: A solvent free, one part elastomeric roof mastic. Used to seal edges or as a repair mastic for split or cracked seals.		
07 51 13 00-0129 LF ELS Flashing Mastic .....	11.77	
Note: Used for repairing flashings and asphalt built-up roof defects.		
07 51 13 00-0130 LF TremSEAL D General Purpose Sealant .....	4.59	
07 51 13 00-0131 LF TremSEAL HP High Performance Sealant .....	4.68	
07 51 13 00-0132 LF TremSEAL S Silicone Sealant .....	4.60	
<b>07 51 13 00-0133 Surfacing (07 51 13 00-0076)</b>		
07 51 13 00-0134 SQ TremLastic SP Non Fibered Elastomeric Emulsion Cold Applied Coating .....	140.26	
07 51 13 00-0135 SQ ICE Coating, Water Based, Heavy Bodied Elastomeric Roof Coating .....	316.30	
07 51 13 00-0136 SQ Polar Coat .....	85.66	
07 51 13 00-0137 SQ Alumanation 301, Asphalt Based, Fibrated Aluminum Roof Coating .....	103.17	
07 51 13 00-0138 SQ Wall-Tite, Elastomeric Coating For Exterior Above-Grade Walls .....	288.44	
07 51 13 00-0139 SQ Solarguard Hy-Build, Elastomeric Coating For Exterior Above-Grade Walls .....	137.44	
07 51 13 00-0140 SQ 100% Stitchbonded, Polyester Fabric (Tremco PERMAFAB) .....	36.81	
<b>07 51 13 00-0141 Walkway Protection Pads (07 51 13 00-0076)</b>		
07 51 13 00-0142 LF 36" Wide, Fiberglass Reinforced Asphaltic Walkway Protection Pad (Tremco Trem-Tred®) .....	20.33	
<b>07 51 13 00-0143 Primer (07 51 13 00-0076)</b>		
07 51 13 00-0144 SQ TREMprime WB Primer .....	25.52	
Note: Water based polymer modified asphalt primer.		
07 51 13 00-0145 SQ Solarguard Masonry Primer, Acrylic Latex Primer For Wall Tite F Coating .....	48.51	
<b>07 51 13 00-0146 Liquid Applied Roofing (07 51 13 00-0076)</b>		
07 51 13 00-0147 SQ Trem-LAR LRM H Waterproofing (Horizontal) .....	241.13	
Note: One part liquid applied elastomeric roofing membrane. 60 mils.		
07 51 13 00-0148 SQ Trem-LAR LRM V Waterproofing (Vertical) .....	247.06	
Note: One part liquid applied elastomeric roofing membrane. 60 mils.		
07 51 13 00-0149 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Smooth BUR/MB, Concrete Or Single Ply Surfaces .....	305.71	
Note: Two part liquid applied polyurethane roof coating. 48 mils.		
07 51 13 00-0150 SQ AlphaGuard BIO Base Coat, High Performance, Two-Part, Polyurethane Roof Coating For Granule MB Surfaces .....	394.06	
Note: Two part liquid applied polyurethane roof coating. 64 mils.		
07 51 13 00-0151 SQ AlphaGuard BIO Top Coat, High Performance, Two-Part, Polyurethane Roof Coating .....	230.42	
Note: Two part liquid applied polyurethane roof coating. 32 mils.		
07 51 13 00-0152 SQ AlphaGuard Glass Mat .....	34.65	
Note: Reinforcement mat for AlphaGuard systems.		
07 51 13 00-0153 SQ AlphaGuard C-Prime Primer .....	51.13	
Note: 100% solids epoxy primer for concrete surfaces.		
07 51 13 00-0154 SQ AlphaGuard M-Prime Primer .....	54.21	
Note: Water based primer for metal and plastic surfaces.		
07 51 13 00-0155 SQ Geogard Primer .....	38.18	
Note: Reactivation primer for cured AlphaGuard MT roof systems and coatings.		
07 51 13 00-0156 SQ AlphaGuard Primer WB .....	34.67	
Note: Water based polymer modified primer which conditions a variety of roofing substrates prior to the application of AlphaGuard systems.		
<b>07 51 13 00-0157 Atactic-Polypropylene (APP) Products (07 51 13 00-0076)</b>		
07 51 13 00-0158 SQ POWERply APP Base Sheet .....	124.95	
07 51 13 00-0159 SQ POWERply APP FR .....	234.22	
07 51 13 00-0160 SQ POWERply APP Smooth .....	187.78	
<b>07 51 13 00-0161 Tri-Polymer Alloy (TPA) White Membrane (07 51 13 00-0076)</b>		
07 51 13 00-0162 SQ 45 Mil Tri-Polymer Alloy (TPA) White Membrane .....	335.13	
07 51 13 00-0163 SQ 60 Mil Tri-Polymer Alloy (TPA) White Membrane .....	449.90	
07 51 13 00-0164 SQ 80 Mil Tri-Polymer Alloy (TPA) White Membrane .....	506.77	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0165				<b>Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane</b> <small>(07 51 13 00-0076)</small>		
07 51 13 00-0166	SQ			45 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane .....	380.14	
07 51 13 00-0167	SQ			60 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane .....	460.27	
07 51 13 00-0168	SQ			80 Mil Tri-Polymer Alloy (TPA) Polyester Fleece Backed White Membrane .....	557.52	
07 51 13 00-0169				<b>Tri-Polymer Alloy (TPA) Membrane Accessories</b> <small>(07 51 13 00-0076)</small>		
07 51 13 00-0170	EA			>1" To 4" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco) .....	68.78	
07 51 13 00-0171	EA			>4" To 8" Pipe Diameter, Prefabricated Tri-Polymer Alloy (TPA) Pipe Cone/Boot (Tremco) .....	78.03	
07 51 13 00-0172	LF			36" Wide, Thermoplastic Tri-Polymer Alloy (TPA) Walkway Protection Pad (Tremco) .....	13.29	
07 51 13 00-0173	SQ			Factory Coated Steel Fasteners And Steel Or Plastic Membrane Plates (Tremco) .....	48.05	
07 51 13 00-0174				<b>Thermoplastic Polyolefin (TPO) Polyester White Membrane</b> <small>(07 51 13 00-0076)</small>		
07 51 13 00-0175	SQ			45 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane .....	189.49	
07 51 13 00-0176	SQ			60 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane .....	189.51	
07 51 13 00-0177	SQ			80 Mil Thermoplastic Polyolefin (TPO) Polyester White Membrane .....	325.87	
07 51 13 00-0178				<b>Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane</b> <small>(07 51 13 00-0076)</small>		
07 51 13 00-0179	SQ			45 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane .....	214.78	
07 51 13 00-0180	SQ			60 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane .....	237.79	
07 51 13 00-0181	SQ			80 Mil Thermoplastic Polyolefin (TPO) Polyester Fleece Backed White Membrane .....	336.62	
07 51 13 00-0182				<b>Tremply HP 4510 CSPE White Membrane</b> <small>(07 51 13 00-0076)</small>		
07 51 13 00-0183	SQ			45 Mil Tremply HP 4510 CSPE White Membrane .....	540.27	
07 51 13 00-0184				<b>Single Ply Adhesives</b> <small>(07 51 13 00-0076)</small>		
07 51 13 00-0185	SQ			Low VOC, TPA Bonding Adhesive (Tremco) .....	93.76	
07 51 13 00-0186	SQ			Water Based, TPA Bonding Adhesive (Tremco) .....	104.83	
07 51 13 00-0187	SQ			Water Based, Fleece Backed Single Ply Bonding Adhesive (Tremco) .....	92.16	
07 51 13 00-0188	SQ			Low VOC, TPO Bonding Adhesive (Tremco) .....	64.25	
07 51 13 00-0189				<b>Warranty</b> <small>(07 51 13 00-0076)</small>		
07 51 13 00-0190	EA			Up To 10,000 SF 15 Year Roofing System Warranty .....	1,500.00	
07 51 13 00-0191	SF			>10,000 SF 15 Year Roofing System Warranty .....	0.15	
07 51 13 00-0192	EA			Up To 10,000 SF 20 Year Roofing System Warranty .....	2,000.00	
07 51 13 00-0193	SF			>10,000 SF 20 Year Roofing System Warranty .....	0.20	
07 51 13 00-0194				<b>Built-Up Roofing Components (Garland)</b> <small>(07 51 13)</small>		
Note: All tasks presented as a single layer. Adhesives are priced separately.						
07 51 13 00-0195				<b>Modified Cap Membranes</b> <small>(07 51 13 00-0194)</small>		
07 51 13 00-0196				<b>Modified Cap Membranes, Hot/Cold Applied</b> <small>(07 51 13 00-0195)</small>		
Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.						
07 51 13 00-0197	SQ			Stressply® FR Mineral Dual Fiberglass Reinforced SBS-Modified Fiberglass Reinforced Membrane, Minimum 145 Mil .....	337.73	
07 51 13 00-0198	SQ			Stressply® Plus Poly/Fiberglass Reinforced, Smooth SBS-Modified Membrane With Recycled Rubber, 105 Mil .....	237.94	
07 51 13 00-0199	SQ			Stressply® Plus FR Mineral Poly/Fiberglass Reinforced SBS-Modified Fiberglass Reinforced Membrane With Recycled Rubber, Minimum 155 Mil .....	293.70	
07 51 13 00-0200	SQ			Stressply® E Eco-Responsible, Smooth SBS/SIS Membrane With High Recycled Content And Renewable Materials .....	305.06	
07 51 13 00-0201	SQ			Stressply® E FR Mineral Eco-Responsible, SBS/SIS Membrane With High Recycled Content And Renewable Materials, Minimum 160 Mil .....	11.01	
07 51 13 00-0202	SQ			Stressply® EUV SPF Fiberglass Reinforced, Minimum Poly/Fiberglass Reinforced White T-24 SBS/SIS-Modified Membrane With Recycled Rubber, 160 Mil .....	475.52	
07 51 13 00-0203	SQ			Versiply® 80 Dual Fiberglass Reinforced SBS-Modified Membrane, 80 Mil .....	5.93	
Note: Low strength cap sheet for hot or cold modified systems used with gravel.						
07 51 13 00-0204	SQ			Versiply® Mineral Dual Fiberglass Reinforced SBS-Modified Membrane, Minimum 145 Mil .....	251.08	
07 51 13 00-0205	SQ			BiFlex® Cap Fiberglass Reinforced, Mineral Surfaced SBS Modified Membrane, 140 Mil .....	11.01	
07 51 13 00-0206				<b>Modified Cap Membranes, Self-Adhering</b> <small>(07 51 13 00-0195)</small>		
Note: As manufactured by Garland. Pricing represents single ply per square. Includes 25 year leak-free warranty.						
07 51 13 00-0207	SQ			Stressply® SA FR Mineral SBS-Modified Self-Adhering Fiberglass Reinforced Membrane, Minimum 140 Mil .....	11.01	
Note: Self adhering system. One HPR SA FR base with one ply Stress Ply SA FR cap sheet.						
07 51 13 00-0208				<b>Modified Cap Membranes, Torch-Applied</b> <small>(07 51 13 00-0195)</small>		
Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.						
07 51 13 00-0209	SQ			Stressply® IV Dual Fiberglass Reinforced, Smooth SBS-Modified Membrane, Torch Applied, 180 Mil .....	368.98	
Note: Smooth surfaced SBS torch modified top ply of torch system with gravel.						
07 51 13 00-0210	SQ			Stressply® IV Mineral Dual Fiberglass Reinforced SBS-Modified Membrane, Torch Applied, Minimum 195 Mil .....	11.01	
07 51 13 00-0211	SQ			Stressply® IV UV Mineral Fiberglass Reinforced, Starburst Surface SBS-Modified Membrane, Torch Applied, Title 24 Compliant, 195 Mil .....	11.01	

## 07 Thermal And Moisture Protection

## 07 50 Membrane Roofing

## 07 51 Built-Up Bituminous Roofing

MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51 13 00-0212			<b>Modified Cap Membranes, Coal Tar Pitch Systems</b> (07 51 13 00-0195) Note: As manufactured by Garland. Pricing represents single ply per square. Includes 30 year leak-free warranty.		
07 51 13 00-0213	SQ		Millennium® Poly/Fiberglass Reinforced, Smooth SBS-Modified Coal Tar Membrane, Minimum 120 Mil	2.54	
07 51 13 00-0214	SQ		Millennium® FR Mineral Poly/Fiberglass Reinforced SBS-Modified Coal Tar Fiberglass Reinforced Membrane, Minimum 160 Mil	535.19	
07 51 13 00-0215	SQ		Millennium® Mineral Poly/Fiberglass Reinforced SBS-Modified Coal Tar Membrane, Minimum 160 Mil	437.17	
07 51 13 00-0216			<b>Base Plys</b> (07 51 13 00-0194) Note: Used with modified cap membranes, underlayment for metal systems, and reinforcement for restoration systems.		
07 51 13 00-0217	SQ		Flexbase® 120 Fiberglass Reinforced SBS-Modified Base Sheet Used As Base Ply With Biflex Cap, 120 Mil	322.11	
07 51 13 00-0218	SQ		Flexbase® 80 Fiberglass Reinforced SBS-Modified Base Sheet Used As Base Ply With Biflex Cap, 80 Mil	191.06	
07 51 13 00-0219	SQ		HPR® Aqua Shield Styrene-Butadiene Rubber (SBR)-Modified Fiberglass Reinforced Self-Adhering Underlayment For Ice And Water Protection, 60 Mil	120.46	
07 51 13 00-0220	SQ		HPR® Glasbase Heavy Duty Double Coated ASTM D 4601, Type II Fiberglass, Type II, 55 Mil Note: Glasbase used in cold system, nailed to deck, or inner ply 2 plies with cap.	44.99	
07 51 13 00-0221	SQ		HPR® Glasfelt Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type IV, 20 Mil Note: Inner ply felts for hot applied built up and modified BUR systems.	30.65	
07 51 13 00-0222	SQ		HPR® Premium Glasbase High Strength, Double Coated Premium Base Sheet, Far Exceeds ASTM D 4601 Type II, 55 Mil	67.72	
07 51 13 00-0223	SQ		HPR® Premium Glasfelt Premium Asphalt Saturated Fiberglass Felt, ASTM D 2178 Type VI, 25 Mil	5.93	
07 51 13 00-0224	SQ		HPR® Tribase Premium Poly/Fiberglass Reinforced SBS-Modified Base Sheet, 60 Mil Note: Inner plies for cold applied modified, SBS modified, or 2 plies under cap sheet.	2.54	
07 51 13 00-0225	SQ		Millennium® Base Poly/Fiberglass Reinforced Coal Tar Base Sheet For Cold Millennium Systems, 80 Mil	192.89	
07 51 13 00-0226	SQ		HPR® SA FR Base Sheet SBS Modified Self-Adhering Underlayment Used In SP SA Fiberglass Reinforced Systems, Minimum 80 Mil Note: Self adhering base ply for self adhering 2 ply system.	11.01	
07 51 13 00-0227	SQ		HPR® Torch Base Sheet Fiberglass Reinforced SBS-Modified Base Sheet Used As Base Ply For Torch Applied Membranes, 110 Mil Note: Torch base sheet used as base ply for torch applied system.	227.29	
07 51 13 00-0228	SQ		StressBase® 120 Fiberglass Reinforced SBS-Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 120 Mil	168.94	
07 51 13 00-0229	SQ		StressBase® 80 Fiberglass Reinforced, Smooth SBS-Modified Underlayment Used With VersiPly And StressPly Cap Sheets, 80 Mil	140.88	
07 51 13 00-0230	LF		Garmesh® 6" SBS Coated Woven Fiberglass Reinforcing Fabric	3.77	
07 51 13 00-0231	SQ		Grip Polyester® Firm Polyester Reinforcement Used For Cold Application Over Smooth BUR Or Modified Roof Systems	38.00	
07 51 13 00-0232	SQ		Grip Polyester® Soft Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	35.44	
07 51 13 00-0233	LF		Grip Polyester® Soft 12" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	4.24	
07 51 13 00-0234	LF		Grip Polyester® Soft 4" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	3.39	
07 51 13 00-0235	LF		Grip Polyester® Soft 6" Polyester Reinforcement Used For Cold Applications Over Metal, Modified, Or Single Ply Roof Systems	3.39	
07 51 13 00-0236	SQ		4873 HPR® Polyscrim Plus Polyester Reinforcement For Hot Bitumen Applications	5.93	
07 51 13 00-0237			<b>Coatings And Mastics For Roof Installation, Restoration And Repairs</b> (07 51 13 00-0194)		
07 51 13 00-0238	SQ		Water Based Roof Primer, GarlaPrime VOC Primer (1 GAL/SQ)	11.01	
07 51 13 00-0239	SQ		All-Knight™ Primer Bleed Blocker For Asphalt And Coal Tar Roofs Used With White-Knight, Garla-Brite And Pyramic Roof Systems (0.5 GAL/SQ)	44.89	
07 51 13 00-0240	SQ		Black-Knight® Primer (0.5 GAL/SQ)	11.01	
07 51 13 00-0241	SQ		Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Interply (1.5-2.0 GAL/SQ)	80.90	
07 51 13 00-0242	SQ		Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Flood Coat (4-5 GAL/SQ)	193.36	
07 51 13 00-0243	SQ		Black-Knight® Cold, Cold Process Polymer Modified Coal Tar, Restoration (6-8 GAL/SQ)	308.36	
07 51 13 00-0244	SQ		Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Interply (30 LB/SQ)	102.65	
07 51 13 00-0245	SQ		Black-Knight® LV Hot Applied Polymer Modified Lower Viscosity Coal Tar Adhesive, Flood Coat (70 LB/SQ)	224.83	
07 51 13 00-0246	SQ		Energizer® K Plus FR Cold Applied SBS Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, One Coat (3 GAL/SQ)	93.42	
07 51 13 00-0247	SQ		Energizer® K Plus FR Cold Applied SBS Modified Asphalt Coating With Kevlar® For Smooth And Mineral Restoration, Restoration (6 GAL/SQ)	178.39	
07 51 13 00-0248	SQ		Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, One Coat (3 GAL/SQ)	18.63	
07 51 13 00-0249	SQ		Energizer® LO Low Odor Cold Applied Polyurethane Modified Asphalt Liquid Membrane For Smooth And Mineral Restoration, Restoration (6 GAL/SQ)	28.80	
07 51 13 00-0250	SQ		Garlastic® KM Plus Premium Hot Applied, SEBS Modified Adhesive/Waterproofer, Interply (25 LB/SQ)	18.63	
07 51 13 00-0251	SQ		Garlastic® KM Plus Premium Hot Applied, SEBS Modified Adhesive/Waterproofer, Flood Coat (60 LB/SQ)	28.80	
07 51 13 00-0252	SQ		Green-Lock® Flashing Adhesive 100% Solids Polyether, Zero VOC, Flashing Adhesive To Be Used With SBS Sheets Only (2-3 GAL/SQ)	249.66	
07 51 13 00-0253	SQ		Green-Lock® Membrane Adhesive 100% Solids Polyether, Zero VOC, Membrane Adhesive To Be Used With SBS Sheets Only (2.0-2.5 GAL/SQ)	18.63	
07 51 13 00-0254	SQ		HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Interply (25 LB/SQ)	18.63	
07 51 13 00-0255	SQ		HPR® All-Temp Asphalt Hot Applied, High Softening Point, High Penetration Mopping Asphalt, Flood Coat (60 LB/SQ)	28.80	
07 51 13 00-0256	SQ		Insul-Lock® E HR Bio-Based High Rise Urethane Insulation Adhesive For New Construction Or Gravel (150 SF/Cartridge)	84.77	
07 51 13 00-0257	SQ		Insul-Lock® HR High Rise Urethane Insulation Adhesive For New Construction Or Gravel Recovers (150 SF/Cartridge)	84.38	



<b>Thermal And Moisture Protection</b>		<b>07</b>
<b>Membrane Roofing</b>		<b>07 50</b>
<b>Built-Up Bituminous Roofing</b>		<b>07 51</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 51	13 00-0258	SQ	Insul-Lock® HR Universal Primer All-Purpose Water Based Primer Designed For Use With The Insul-Lock Products (150-200 SF/GAL) ..... Note: Adheres all insulation layers for cold systems.	11.01	
07 51	13 00-0259	SQ	Pyramic® White, Water-Based Acrylic, Low VOC, Reflective Roof Coating, Energy Star, Top Coat Required (1-1.5 GAL/SQ).....	64.24	
07 51	13 00-0260	SQ	Pyramic® Base Coat, Water-Based, Acrylic, Low VOC, Base Coating For A Pyramic System, Top Coat Required (1-1.5 GAL/SQ).....	11.01	
07 51	13 00-0261	LF	Silver-Flash® Aluminized Asphalt Fibered Trowel Grade Mastic Used With GarMesh (1 GAL/7 LF).....	12.58	
07 51	13 00-0262	SQ	Solex® White, Kynar Acrylic Topcoat Roof Coating Used With Pyramic Base Coat (0.5 GAL/SQ).....	119.04	
07 51	13 00-0263	SQ	Tuff-Flash™ Multi-Purpose Asphaltic Polyurethane Liquid Flashing Membrane Used With Reinforcing Fabric (2-2.5 GAL/SQ).....	224.81	
07 51	13 00-0264	SQ	Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel, Flood Coat (4-5 GAL/SQ).....	28.80	
07 51	13 00-0265	SQ	Weatherscreen™ Rubberized, Fiber-Reinforced Fire-Rated Restoration For Modified And Gravel, Restoration (6-8 GAL/SQ).....	28.80	
07 51	13 00-0266	SQ	Weatherking® Cold Applied Rubber Modified Asphalt Interply Adhesive For Slopes Up To 3:12, Interply (2.5 GAL/SQ).....	72.97	
07 51	13 00-0267	SQ	Weatherking® Flashing Adhesive Brush Grade, Cold Applied Asphalt Adhesive For Flashings In A Weatherking System (2-3 GAL/SQ).....	215.86	
07 51	13 00-0268	SQ	Weatherking® Plus WC Cold Applied Rubber Modified, VOC Compliant Asphalt Interply Adhesive For Slopes Up To 2:12, Interply (2.5 GAL/SQ)..... Note: Inner ply and flood coat SEBS modified adhesive for all cold systems with gravel.	18.63	

**07 52 Modified Bituminous Membrane Roofing (07 50)**

**07 52 13 Atactic-Polypropylene Modified Bituminous Membrane Roofing (07 52)**

Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties.

**07 52 13 11 Cold Adhesive Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing (07 52 13)**

**07 52 13 11-0001 Cold Adhesive Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing (07 52 13 11)**

Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required.

**07 52 13 11-0002 Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 13 11-0001)**

07 52 13 11-0003	SQ	80 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Sheet, Cold Adhesive Applied.....	105.61
		For Up To 10, Add	13.51
		For >10 To 25, Add	10.76
07 52 13 11-0004	SQ	90 Mil, Atactic-Polypropylene (APP) Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied.....	126.25
		For Up To 10, Add	14.54
		For >10 To 25, Add	11.80
07 52 13 11-0005	SQ	160 Mil, Atactic-Polypropylene (APP) Modified Bitumen Ply Sheet, Cold Adhesive Applied.....	205.94
		For Up To 10, Add	18.52
		For >10 To 25, Add	15.78
07 52 13 11-0006	SQ	160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	208.56
		For Up To 10, Add	19.44
		For >10 To 25, Add	16.43
07 52 13 11-0007	SQ	160 Mil, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	142.71
		For Up To 10, Add	16.14
		For >10 To 25, Add	13.14
		For Factory Applied White Reflective Surfacing, Add	55.80
07 52 13 11-0008	SQ	160 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	163.58
		For Up To 10, Add	17.19
		For >10 To 25, Add	14.19
		For Factory Applied White Reflective Surfacing, Add	55.80
07 52 13 11-0009	SQ	180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	220.45
		For Up To 10, Add	20.03
		For >10 To 25, Add	17.03
		For Factory Applied White Reflective Surfacing, Add	55.80

**07 52 13 11-0010 Cold Adhesive Applied, Atactic-Polypropylene (APP) Modified Bitumen Roofing Flashing (07 52 13 11-0001)**

07 52 13 11-0011	SF	160 Mil, Smooth Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied.....	4.59
07 52 13 11-0012	SF	180 Mil, Fire Rated, Granule Surfaced, Atactic-Polypropylene (APP) Modified Bitumen Flashing, Cold Adhesive Applied.....	4.71
		For Factory Applied White Reflective Surfacing, Add	0.56

**07 52 13 13 Torch-Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing (07 52 13)**

**07 52 13 13-0001 Torch-Applied Atactic-Polypropylene-Modified Bituminous Membrane Roofing (07 52 13 13)**

Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 13 13-0002			<b>Torch-Applied, APP Modified Bitumen Roofing Base, Ply And Cap Sheets</b> <sup>(07 52 13 13-0001)</sup>		
07 52 13 13-0003	SQ		80 Mil, APP Modified Bitumen Base Sheet, Torch-Applied.....	72.29	
			<i>For Up To 10, Add</i>	9.79	
			<i>For &gt;10 To 25, Add</i>	7.73	
07 52 13 13-0004	SQ		90 Mil, APP Modified Bitumen Base Or Ply Sheet, Torch-Applied.....	92.93	
			<i>For Up To 10, Add</i>	10.82	
			<i>For &gt;10 To 25, Add</i>	8.76	
07 52 13 13-0005	SQ		150 Mil, APP Modified Bitumen Ply Sheet, Torch-Applied.....	102.61	
			<i>For Up To 10, Add</i>	11.30	
			<i>For &gt;10 To 25, Add</i>	9.24	
07 52 13 13-0006	SQ		160 Mil, APP Modified Bitumen Ply Sheet, Torch-Applied.....	107.90	
			<i>For Up To 10, Add</i>	11.57	
			<i>For &gt;10 To 25, Add</i>	9.51	
07 52 13 13-0007	SQ		180 Mil, APP Modified Bitumen Ply Sheet, Torch-Applied.....	150.76	
			<i>For Up To 10, Add</i>	13.71	
			<i>For &gt;10 To 25, Add</i>	11.65	
07 52 13 13-0008	SQ		150 Mil, Smooth Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied.....	103.85	
			<i>For Up To 10, Add</i>	11.73	
			<i>For &gt;10 To 25, Add</i>	9.55	
07 52 13 13-0009	SQ		160 Mil, Smooth Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied.....	110.46	
			<i>For Up To 10, Add</i>	12.06	
			<i>For &gt;10 To 25, Add</i>	9.88	
07 52 13 13-0010	SQ		180 Mil, Smooth Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied.....	152.00	
			<i>For Up To 10, Add</i>	14.14	
			<i>For &gt;10 To 25, Add</i>	11.96	
07 52 13 13-0011	SQ		160 Mil, Granule Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied.....	108.02	
			<i>For Up To 10, Add</i>	11.94	
			<i>For &gt;10 To 25, Add</i>	9.76	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 13 13-0012	SQ		170 Mil, Granule Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied.....	114.42	
			<i>For Up To 10, Add</i>	12.26	
			<i>For &gt;10 To 25, Add</i>	10.08	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 13 13-0013	SQ		160 Mil, Fire Rated, Granule Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied.....	130.14	
			<i>For Up To 10, Add</i>	13.05	
			<i>For &gt;10 To 25, Add</i>	10.87	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 13 13-0014	SQ		170 Mil, Fire Rated, Granule Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied.....	132.06	
			<i>For Up To 10, Add</i>	13.14	
			<i>For &gt;10 To 25, Add</i>	10.96	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 13 13-0015	SQ		180 Mil, Fire Rated, Granule Surfaced, APP Modified Bitumen Cap Sheet, Torch-Applied.....	185.75	
			<i>For Up To 10, Add</i>	15.83	
			<i>For &gt;10 To 25, Add</i>	13.65	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 13 13-0016			<b>Torch-Applied, APP Modified Bitumen Roofing Flashing</b> <sup>(07 52 13 13-0001)</sup>		
07 52 13 13-0017	SF		150 Mil, Smooth Surfaced, APP Modified Bitumen Flashing, Torch-Applied.....	2.06	
07 52 13 13-0018	SF		160 Mil, Smooth Surfaced, APP Modified Bitumen Flashing, Torch-Applied.....	2.12	
07 52 13 13-0019	SF		180 Mil, Smooth Surfaced, APP Modified Bitumen Flashing, Torch-Applied.....	2.54	
07 52 13 13-0020	SF		170 Mil, Granule Surfaced, APP Modified Bitumen Flashing, Torch-Applied.....	2.16	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.56	
07 52 13 13-0021	SF		170 Mil, Fire Rated, Granule Surfaced, APP Modified Bitumen Flashing, Torch-Applied.....	2.34	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.56	
07 52 13 13-0022	SF		180 Mil, Fire Rated, Granule Surfaced, APP Modified Bitumen Flashing, Torch-Applied.....	2.88	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.56	
07 52 13 14			<b>Mechanically Fastened Atactic-Polypropylene-Modified Bituminous Membrane Roofing</b> <sup>(07 52 13)</sup>		
07 52 13 14-0001			<b>Mechanically Fastened Atactic-Polypropylene-Modified Bituminous Membrane Roofing</b> <sup>(07 52 13 14)</sup>		
			Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.		
07 52 13 14-0002			<b>Mechanically Fastened, APP Modified Bitumen Roofing Base And Ply Sheets</b> <sup>(07 52 13 14-0001)</sup>		
07 52 13 14-0003	SQ		90 Mil, APP Modified Bitumen Base Or Ply Sheet, Mechanically Fastened.....	106.58	
			<i>For Up To 10, Add</i>	9.44	
			<i>For &gt;10 To 25, Add</i>	8.07	
07 52 16			<b>Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing</b> <sup>(07 52)</sup>		
			Note: Includes all standard manufacturers' colors including white for granule and smooth surfaced cap sheets and flashing. See CSI section 07 51 13 00-0001 for additional components such as concrete primers, cant strips, surfacing, walkway boards, demolition and warranties.		
07 52 16 11			<b>Cold Adhesive Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing</b> <sup>(07 52 16)</sup>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 11-0001			<b>Cold Adhesive Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing</b> <small>(07 52 16 11)</small>		
			Note: Includes fiberglass and/or polyester reinforcement. Includes applying cold adhesive and embedding the membrane. Includes heat welding side and end laps when required.		
07 52 16 11-0002			<b>Cold Adhesive Applied, SBS Modified Bitumen Roofing Base, Ply And Cap Sheets</b> <small>(07 52 16 11-0001)</small>		
07 52 16 11-0003	SQ		50 Mil, SBS Modified Bitumen Base Sheet, Cold Adhesive Applied.....	85.41	
			For Up To 10, Add	12.50	
			For >10 To 25, Add	9.75	
07 52 16 11-0004	SQ		80 Mil, SBS Modified Bitumen Base Sheet, Cold Adhesive Applied.....	108.32	
			For Up To 10, Add	13.64	
			For >10 To 25, Add	10.90	
07 52 16 11-0005	SQ		90 Mil, SBS Modified Bitumen Base Sheet, Cold Adhesive Applied.....	111.28	
			For Up To 10, Add	13.79	
			For >10 To 25, Add	11.05	
07 52 16 11-0006	SQ		120 Mil, SBS Modified Bitumen Base Or Ply Sheet, Cold Adhesive Applied.....	147.82	
			For Up To 10, Add	15.62	
			For >10 To 25, Add	12.88	
07 52 16 11-0007	SQ		125 Mil, SBS Modified Bitumen Ply Sheet, Cold Adhesive Applied.....	184.80	
			For Up To 10, Add	17.47	
			For >10 To 25, Add	14.72	
07 52 16 11-0008	SQ		140 Mil, Smooth Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	156.77	
			For Up To 10, Add	16.85	
			For >10 To 25, Add	13.84	
07 52 16 11-0009	SQ		150 Mil, Smooth Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	160.74	
			For Up To 10, Add	17.05	
			For >10 To 25, Add	14.04	
07 52 16 11-0010	SQ		125 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	142.12	
			For Up To 10, Add	16.12	
			For >10 To 25, Add	13.11	
			For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 11-0011	SQ		140 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	143.84	
			For Up To 10, Add	16.20	
			For >10 To 25, Add	13.20	
			For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 11-0012	SQ		150 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	159.69	
			For Up To 10, Add	16.99	
			For >10 To 25, Add	13.99	
			For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 11-0013	SQ		160 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	162.33	
			For Up To 10, Add	17.13	
			For >10 To 25, Add	14.12	
			For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 11-0014	SQ		170 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	185.44	
			For Up To 10, Add	18.28	
			For >10 To 25, Add	15.28	
			For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 11-0015	SQ		180 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	227.55	
			For Up To 10, Add	20.39	
			For >10 To 25, Add	17.38	
			For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 11-0016	SQ		125 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	144.98	
			For Up To 10, Add	16.26	
			For >10 To 25, Add	13.26	
			For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 11-0017	SQ		140 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	149.12	
			For Up To 10, Add	16.47	
			For >10 To 25, Add	13.46	
			For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 11-0018	SQ		150 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	171.57	
			For Up To 10, Add	17.59	
			For >10 To 25, Add	14.58	
			For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 11-0019	SQ		160 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	172.10	
			For Up To 10, Add	17.61	
			For >10 To 25, Add	14.61	
			For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 11-0020	SQ		170 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Cold Adhesive Applied.....	182.14	
			For Up To 10, Add	18.12	
			For >10 To 25, Add	15.11	
			For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 11-0021			<b>Cold Adhesive Applied, SBS Modified Bitumen Roofing Flashing</b> <small>(07 52 16 11-0001)</small>		
07 52 16 11-0022	SF		150 Mil, Smooth Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied.....	4.11	
07 52 16 11-0023	SF		125 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied.....	3.92	
			For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 11-0024	SF		140 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied.....	3.94	
			For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 11-0025	SF		160 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied.....	4.12	
			For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 11-0026	SF		170 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied.....	4.36	
			For Factory Applied White Reflective Surfacing, Add	0.56	

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 11-0027	SF		180 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied .....	4.78	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.56	
07 52 16 11-0028	SF		125 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied .....	3.95	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.56	
07 52 16 11-0029	SF		140 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied .....	3.99	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.56	
07 52 16 11-0030	SF		160 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied .....	4.22	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.56	
07 52 16 11-0031	SF		170 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied .....	4.32	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.56	
07 52 16 11-0032	SF		145 Mil, Aluminum Foil Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied .....	5.14	
07 52 16 11-0033	SF		160 Mil, Copper Foil Surfaced, SBS Modified Bitumen Flashing, Cold Adhesive Applied .....	8.11	
<b>07 52 16 12</b>			<b>Hot-Mopped Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing</b> (07 52 16)		
07 52 16 12-0001			Hot-Mopped Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16 12) Note: Includes fiberglass and/or polyester reinforcement. Includes mopping hot asphalt and embedding the membrane.		
07 52 16 12-0002			Hot-Mopped, SBS Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 12-0001)		
07 52 16 12-0003	SQ		50 Mil, SBS Modified Bitumen Base Sheet, Hot-Mopped .....	72.09	
			<i>For Up To 10, Add</i>	11.83	
			<i>For &gt;10 To 25, Add</i>	9.09	
07 52 16 12-0004	SQ		80 Mil, SBS Modified Bitumen Base Sheet, Hot-Mopped .....	95.00	
			<i>For Up To 10, Add</i>	12.98	
			<i>For &gt;10 To 25, Add</i>	10.23	
07 52 16 12-0005	SQ		90 Mil, SBS Modified Bitumen Base Sheet, Hot-Mopped .....	97.95	
			<i>For Up To 10, Add</i>	13.12	
			<i>For &gt;10 To 25, Add</i>	10.38	
07 52 16 12-0006	SQ		120 Mil, SBS Modified Bitumen Base Or Ply Sheet, Hot-Mopped .....	134.50	
			<i>For Up To 10, Add</i>	14.95	
			<i>For &gt;10 To 25, Add</i>	12.21	
07 52 16 12-0007	SQ		125 Mil, SBS Modified Bitumen Ply Sheet, Hot-Mopped .....	171.48	
			<i>For Up To 10, Add</i>	16.80	
			<i>For &gt;10 To 25, Add</i>	14.06	
07 52 16 12-0008	SQ		140 Mil, Smooth Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped .....	143.50	
			<i>For Up To 10, Add</i>	16.18	
			<i>For &gt;10 To 25, Add</i>	13.18	
07 52 16 12-0009	SQ		150 Mil, Smooth Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped .....	147.47	
			<i>For Up To 10, Add</i>	16.38	
			<i>For &gt;10 To 25, Add</i>	13.38	
07 52 16 12-0010	SQ		125 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped .....	128.85	
			<i>For Up To 10, Add</i>	15.45	
			<i>For &gt;10 To 25, Add</i>	12.45	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 16 12-0011	SQ		140 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped .....	130.56	
			<i>For Up To 10, Add</i>	15.54	
			<i>For &gt;10 To 25, Add</i>	12.53	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 16 12-0012	SQ		150 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped .....	146.41	
			<i>For Up To 10, Add</i>	16.33	
			<i>For &gt;10 To 25, Add</i>	13.33	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 16 12-0013	SQ		160 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped .....	149.06	
			<i>For Up To 10, Add</i>	16.46	
			<i>For &gt;10 To 25, Add</i>	13.46	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 16 12-0014	SQ		170 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped .....	172.17	
			<i>For Up To 10, Add</i>	17.62	
			<i>For &gt;10 To 25, Add</i>	14.61	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 16 12-0015	SQ		180 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped .....	214.28	
			<i>For Up To 10, Add</i>	19.72	
			<i>For &gt;10 To 25, Add</i>	16.72	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 16 12-0016	SQ		125 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped .....	131.71	
			<i>For Up To 10, Add</i>	15.59	
			<i>For &gt;10 To 25, Add</i>	12.59	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 16 12-0017	SQ		140 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped .....	135.85	
			<i>For Up To 10, Add</i>	15.80	
			<i>For &gt;10 To 25, Add</i>	12.80	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 16 12-0018	SQ		150 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped .....	158.30	
			<i>For Up To 10, Add</i>	16.92	
			<i>For &gt;10 To 25, Add</i>	13.92	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 16 12-0019	SQ		160 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped .....	158.83	
			<i>For Up To 10, Add</i>	16.95	
			<i>For &gt;10 To 25, Add</i>	13.95	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 12-0020 SQ 170 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Hot-Mopped	168.87	
For Up To 10, Add	17.45	
For >10 To 25, Add	14.45	
For Factory Applied White Reflective Surfacing, Add	55.80	
<b>07 52 16 12-0021 Hot-Mopped, SBS Modified Bitumen Roofing Flashing (07 52 16 12-0001)</b>		
07 52 16 12-0022 SF 150 Mil, Smooth Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.90	
07 52 16 12-0023 SF 125 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.71	
For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 12-0024 SF 140 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.73	
For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 12-0025 SF 150 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.89	
For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 12-0026 SF 160 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.91	
For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 12-0027 SF 170 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	3.14	
For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 12-0028 SF 180 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	3.56	
For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 12-0029 SF 125 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.74	
For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 12-0030 SF 140 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.78	
For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 12-0031 SF 160 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	2.97	
For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 12-0032 SF 170 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	3.11	
For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 12-0033 SF 145 Mil, Aluminum Foil Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	3.93	
07 52 16 12-0034 SF 160 Mil, Copper Foil Surfaced, SBS Modified Bitumen Flashing, Hot-Mopped	6.90	
<b>07 52 16 13 Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)</b>		
<b>07 52 16 13-0001 Torch-Applied Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16 13)</b>		
Note: Includes fiberglass and/or polyester reinforcement. Includes adhering the membrane with a torch.		
<b>07 52 16 13-0002 Torch-Applied, SBS Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 13-0001)</b>		
07 52 16 13-0003 SQ 120 Mil, SBS Modified Bitumen Base Or Ply Sheet, Torch-Applied	121.11	
For Up To 10, Add	12.23	
For >10 To 25, Add	10.17	
07 52 16 13-0004 SQ 150 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied	109.53	
For Up To 10, Add	12.02	
For >10 To 25, Add	9.84	
For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 13-0005 SQ 160 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied	124.59	
For Up To 10, Add	12.77	
For >10 To 25, Add	10.59	
For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 13-0006 SQ 180 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied	192.86	
For Up To 10, Add	16.18	
For >10 To 25, Add	14.00	
For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 13-0007 SQ 150 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied	113.84	
For Up To 10, Add	12.23	
For >10 To 25, Add	10.05	
For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 13-0008 SQ 160 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied	131.59	
For Up To 10, Add	13.12	
For >10 To 25, Add	10.94	
For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 13-0009 SQ 165 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied	137.23	
For Up To 10, Add	13.40	
For >10 To 25, Add	11.22	
For Factory Applied White Reflective Surfacing, Add	55.80	
07 52 16 13-0010 SQ 180 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Torch-Applied	178.66	
For Up To 10, Add	15.47	
For >10 To 25, Add	13.29	
For Factory Applied White Reflective Surfacing, Add	55.80	
<b>07 52 16 13-0011 Torch-Applied, SBS Modified Bitumen Roofing Flashing (07 52 16 13-0001)</b>		
07 52 16 13-0012 SF 150 Mil, Smooth Surfaced, SBS Modified Bitumen Flashing, Torch-Applied	2.28	
07 52 16 13-0013 SF 150 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Torch-Applied	2.27	
For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 13-0014 SF 180 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Torch-Applied	2.95	
For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 13-0015 SF 160 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Torch-Applied	2.35	
For Factory Applied White Reflective Surfacing, Add	0.56	
07 52 16 13-0016 SF 165 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Torch-Applied	2.39	
For Factory Applied White Reflective Surfacing, Add	0.56	

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 52 Modified Bituminous Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 52 16 13-0017	SF		180 Mil, Fire Rated, Granule Surfaced, SBS Modified Bitumen Flashing, Torch-Applied .....	2.81	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.56	
07 52 16 13-0018	SF		150 Mil, Aluminum Foil Surfaced, SBS Modified Bitumen Flashing, Torch-Applied .....	2.90	
07 52 16 13-0019	SF		160 Mil, Copper Foil Surfaced, SBS Modified Bitumen Flashing, Torch-Applied .....	6.29	
<b>07 52 16 14 Mechanically Fastened Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)</b>					
07 52 16 14-0001			Mechanically Fastened Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16 14) Note: Includes fiberglass and/or polyester reinforcement. Includes fasteners.		
07 52 16 14-0002			Mechanically Fastened, SBS Modified Bitumen Roofing Base And Ply Sheets (07 52 16 14-0001)		
07 52 16 14-0003	SQ		35 Mil, SBS Modified Bitumen Ply Sheet, Mechanically Fastened .....	83.81	
			<i>For Up To 10, Add</i>	8.30	
			<i>For &gt;10 To 25, Add</i>	6.93	
07 52 16 14-0004	SQ		50 Mil, SBS Modified Bitumen Base Sheet, Mechanically Fastened .....	65.74	
			<i>For Up To 10, Add</i>	7.40	
			<i>For &gt;10 To 25, Add</i>	6.03	
07 52 16 14-0005	SQ		80 Mil, SBS Modified Bitumen Base Sheet, Mechanically Fastened .....	83.53	
			<i>For Up To 10, Add</i>	8.29	
			<i>For &gt;10 To 25, Add</i>	6.92	
07 52 16 14-0006	SQ		90 Mil, SBS Modified Bitumen Base Sheet, Mechanically Fastened .....	103.18	
			<i>For Up To 10, Add</i>	9.27	
			<i>For &gt;10 To 25, Add</i>	7.90	
07 52 16 14-0007	SQ		120 Mil, SBS Modified Bitumen Base Or Ply Sheet, Mechanically Fastened .....	128.15	
			<i>For Up To 10, Add</i>	10.52	
			<i>For &gt;10 To 25, Add</i>	9.15	
07 52 16 14-0008			Mechanically Fastened, SBS Modified Bitumen Roofing Flashing (07 52 16 14-0001)		
07 52 16 14-0009	SF		150 Mil, Smooth Surfaced, SBS Modified Bitumen Flashing, Mechanically Fastened .....	1.87	
07 52 16 14-0010	SF		160 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Mechanically Fastened .....	1.91	
<b>07 52 16 15 Self-Adhering Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16)</b>					
07 52 16 15-0001			Self-Adhering Styrene-Butadiene-Styrene Modified Bituminous Membrane Roofing (07 52 16 15) Note: Includes fiberglass and/or polyester reinforcement. Includes removing the release film(s) from the membrane and applying the membrane.		
07 52 16 15-0002			Self-Adhering, SBS Modified Bitumen Roofing Base, Ply And Cap Sheets (07 52 16 15-0001)		
07 52 16 15-0003	SQ		60 Mil, SBS Modified Bitumen Base Sheet, Self-Adhering .....	69.36	
			<i>For Up To 10, Add</i>	8.40	
			<i>For &gt;10 To 25, Add</i>	6.76	
07 52 16 15-0004	SQ		70 Mil, SBS Modified Bitumen Base Sheet, Self-Adhering .....	73.10	
			<i>For Up To 10, Add</i>	8.59	
			<i>For &gt;10 To 25, Add</i>	6.95	
07 52 16 15-0005	SQ		120 Mil, SBS Modified Bitumen Base Sheet, Self-Adhering .....	119.37	
			<i>For Up To 10, Add</i>	11.28	
			<i>For &gt;10 To 25, Add</i>	9.51	
07 52 16 15-0006	SQ		150 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Self-Adhering .....	141.32	
			<i>For Up To 10, Add</i>	12.37	
			<i>For &gt;10 To 25, Add</i>	10.60	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 16 15-0007	SQ		160 Mil, Granule Surfaced, SBS Modified Bitumen Cap Sheet, Self-Adhering .....	206.05	
			<i>For Up To 10, Add</i>	15.61	
			<i>For &gt;10 To 25, Add</i>	13.84	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	55.80	
07 52 16 15-0008			Self-Adhering, SBS Modified Bitumen Roofing Flashing (07 52 16 15-0001)		
07 52 16 15-0009	SF		70 Mil, SBS Modified Bitumen Flashing, Self-Adhering .....	2.26	
07 52 16 15-0010	SF		150 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Self-Adhering .....	2.48	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.56	
07 52 16 15-0011	SF		160 Mil, Granule Surfaced, SBS Modified Bitumen Flashing, Self-Adhering .....	3.12	
			<i>For Factory Applied White Reflective Surfacing, Add</i>	0.56	
07 53			<b>Elastomeric Membrane Roofing (07 50)</b> Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices. See CSI section 07 26 13 00-0000 for wood deck building paper.		
<b>07 53 16 Chlorosulfonate-Polyethylene Roofing (07 53)</b>					
07 53 16 00-0001			Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membranes (07 53 16) Note: Includes hot air welding or adhesive bonding of seams.		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 16 00-0002 SQ 45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Fully Adhered.....	294.18	66.29
Note: Includes adhesive.		
<i>For Up To 10, Add</i>	54.20	
<i>For &gt;10 To 25, Add</i>	41.04	
<i>For 15 Year Warranty, Add</i>	3.00	
07 53 16 00-0003 SQ 45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Ballasted .....	200.80	33.15
Note: Includes ballast.		
<i>For Up To 10, Add</i>	29.79	
<i>For &gt;10 To 25, Add</i>	23.20	
<i>For 15 Year Warranty, Add</i>	3.00	
07 53 16 00-0004 SQ 45 Mil, Single Ply Chlorosulfonated Polyethylene-Hypalon (CSPE) Roofing Membrane, Mechanically Fastened.....	225.56	49.71
Note: Includes fasteners.		
<i>For Up To 10, Add</i>	40.89	
<i>For &gt;10 To 25, Add</i>	31.02	
<i>For 15 Year Warranty, Add</i>	3.00	
<b>07 53 23 Ethylene-Propylene-Diene-Monomer Roofing (07 53)</b>		
<b>07 53 23 00-0001 Ethylene Propylene Diene Monomer (EPDM) Roofing Membranes (07 53 23)</b>		
Note: Includes splicing of seams using adhesive or seam tape. Black ethylene propylene diene monomer (EPDM).		
07 53 23 00-0002 SQ 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted.....	151.51	33.15
Note: Includes ballast.		
<i>For Up To 10, Add</i>	27.32	
<i>For &gt;10 To 25, Add</i>	20.74	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Low Slope Fire Rated, Add</i>	4.48	
<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	11.18	
07 53 23 00-0003 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted.....	168.88	35.21
Note: Includes ballast.		
<i>For Up To 10, Add</i>	29.42	
<i>For &gt;10 To 25, Add</i>	22.43	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	6.00	
<i>For 25 Year Warranty, Add</i>	8.00	
<i>For Low Slope Fire Rated, Add</i>	4.48	
<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	11.18	
07 53 23 00-0004 SQ 90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Ballasted.....	241.72	37.28
Note: Includes ballast.		
<i>For Up To 10, Add</i>	34.30	
<i>For &gt;10 To 25, Add</i>	26.89	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	6.00	
<i>For 25 Year Warranty, Add</i>	8.00	
<i>For Low Slope Fire Rated, Add</i>	4.48	
07 53 23 00-0005 SQ 45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%).....	185.88	49.71
Note: Includes adhesive and fasteners.		
<i>For Up To 10, Add</i>	38.89	
<i>For &gt;10 To 25, Add</i>	29.01	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For Low Slope Fire Rated, Add</i>	4.48	
<i>For Low VOC Adhesive, Add</i>	21.50	
<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	11.18	
<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	42.78	
<i>For Integral Polyester Fleece-Backing, Add</i>	63.47	
07 53 23 00-0006 SQ 60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%).....	202.75	51.79
Note: Includes adhesive and fasteners.		
<i>For Up To 10, Add</i>	40.99	
<i>For &gt;10 To 25, Add</i>	30.71	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	6.00	
<i>For 25 Year Warranty, Add</i>	8.00	
<i>For Low Slope Fire Rated, Add</i>	4.48	
<i>For Low VOC Adhesive, Add</i>	21.50	
<i>For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add</i>	11.18	
<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	42.78	
<i>For Integral Polyester Fleece-Backing, Add</i>	70.05	
07 53 23 00-0007 SQ 90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Partially Adhered (40%).....	275.60	53.86
Note: Includes adhesive and fasteners.		
<i>For Up To 10, Add</i>	45.87	
<i>For &gt;10 To 25, Add</i>	35.17	
<i>For 15 Year Warranty, Add</i>	3.00	
<i>For 20 Year Warranty, Add</i>	6.00	
<i>For 25 Year Warranty, Add</i>	8.00	
<i>For Low Slope Fire Rated, Add</i>	4.48	
<i>For Low VOC Adhesive, Add</i>	21.50	
<i>For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add</i>	42.78	
<i>For Integral Polyester Fleece-Backing, Add</i>	77.22	

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 53 Elastomeric Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 53 23 00-0008	SQ		45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered.....	245.31	66.29
			Note: Includes adhesive and fasteners.		
			For Up To 10, Add	51.75	
			For >10 To 25, Add	38.59	
			For 15 Year Warranty, Add	3.00	
			For Low Slope Fire Rated, Add	4.48	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	11.18	
			For Low VOC Adhesive, Add	53.76	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	42.78	
			For Integral Polyester Fleece-Backing, Add	63.47	
07 53 23 00-0009	SQ		60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered.....	262.68	68.36
			Note: Includes adhesive and fasteners.		
			For Up To 10, Add	53.86	
			For >10 To 25, Add	40.28	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Low Slope Fire Rated, Add	4.48	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	11.18	
			For Low VOC Adhesive, Add	53.76	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	42.78	
			For Integral Polyester Fleece-Backing, Add	70.05	
07 53 23 00-0010	SQ		90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Fully Adhered.....	335.53	70.43
			Note: Includes adhesive and fasteners.		
			For Up To 10, Add	58.73	
			For >10 To 25, Add	44.75	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Low Slope Fire Rated, Add	4.48	
			For Low VOC Adhesive, Add	53.76	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	42.78	
			For Integral Polyester Fleece-Backing, Add	77.22	
07 53 23 00-0011	SQ		45 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened .....	176.15	49.71
			Note: Includes fasteners.		
			For Up To 10, Add	38.42	
			For >10 To 25, Add	28.55	
			For 15 Year Warranty, Add	3.00	
			For Low Slope Fire Rated, Add	4.48	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	11.18	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	42.78	
07 53 23 00-0012	SQ		60 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened .....	193.52	51.79
			Note: Includes fasteners.		
			For Up To 10, Add	40.53	
			For >10 To 25, Add	30.24	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Low Slope Fire Rated, Add	4.48	
			For Reinforced Ethylene Propylene Diene Monomer (EPDM), Add	11.18	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	42.78	
07 53 23 00-0013	SQ		90 Mil, Single Ply Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane, Mechanically Fastened .....	266.37	53.86
			Note: Includes fasteners.		
			For Up To 10, Add	45.40	
			For >10 To 25, Add	34.71	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Low Slope Fire Rated, Add	4.48	
			For White Ethylene Propylene Diene Monomer (EPDM) Or Factory Applied White Coating, Add	42.78	
07 53 23 00-0014			<b>Ethylene Propylene Diene Monomer (EPDM) Roofing Membrane Accessories</b> <small>(07 53 23)</small>		
07 53 23 00-0015	SQ		Acrylic, Ethylene Propylene Diene Monomer (EPDM) Roofing Primer, Price Per Coat .....	42.80	
			For Up To 10, Add	7.08	
			For >10 To 25, Add	5.43	
07 53 23 00-0016	SQ		Acrylic Elastomeric, Surface Or Base Coating For Ethylene Propylene Diene Monomer (EPDM) Roofing, Price Per Coat .....	44.11	
			Note: 55% solids by volume.		
			For Up To 10, Add	7.14	
			For >10 To 25, Add	5.50	
07 53 23 00-0017	EA		Up To 4" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	28.48	7.88
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0018	EA		>4" To 8" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	38.83	7.88
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0019	EA		>8" To 13" Pipe Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Pipe Cone/Boot.....	68.70	7.88
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 53 23 00-0020	EA		6" Diameter, Prefabricated Ethylene Propylene Diene Monomer (EPDM) Penetration Pocket.....	90.10	8.70
			Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.		
07 53 23 00-0021	LF		30" Wide, Ethylene Propylene Diene Monomer (EPDM) Walkway Protection Pad.....	21.41	4.80
			Note: Includes factory installed peel and stick adhesive tape.		
07 53 23 00-0022	SF		Ethylene Propylene Diene Monomer (EPDM) Membrane Base Flashing.....	4.23	1.24
07 53 23 00-0023	SF		Ethylene Propylene Diene Monomer (EPDM) Membrane Curb Flashing .....	5.46	1.86



<b>Thermal And Moisture Protection</b>	<b>07</b>
<b>Membrane Roofing</b>	<b>07 50</b>
<b>Elastomeric Membrane Roofing</b>	<b>07 53</b>

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**07 53 29 Polyisobutylene Roofing (07 53)**

**07 53 29 00-0001 Polyisobutylene (PIB) Roofing Membranes (07 53 29)**

Note: Includes integral polyester fleece-backing. Includes splicing of seams using adhesive or seam tape.

07 53 29 00-0002	SQ	100 Mil, Single Ply PIB Roofing Membrane, Ballasted .....	297.96	37.28
		Note: Includes ballast.		
		For Up To 10, Add	37.11	
		For >10 To 25, Add	29.71	
		For 15 Year Warranty, Add	3.00	
		For 20 Year Warranty, Add	6.00	
		For 25 Year Warranty, Add	8.00	
07 53 29 00-0003	SQ	100 Mil, Single Ply PIB Roofing Membrane, Partially Adhered (40%) .....	339.74	53.86
		Note: Includes adhesive.		
		For Up To 10, Add	49.07	
		For >10 To 25, Add	38.38	
		For 15 Year Warranty, Add	3.00	
		For 20 Year Warranty, Add	6.00	
		For 25 Year Warranty, Add	8.00	
07 53 29 00-0004	SQ	100 Mil, Single Ply PIB Roofing Membrane, Fully Adhered .....	411.51	70.43
		Note: Includes adhesive.		
		For Up To 10, Add	62.53	
		For >10 To 25, Add	48.55	
		For 15 Year Warranty, Add	3.00	
		For 20 Year Warranty, Add	6.00	
		For 25 Year Warranty, Add	8.00	

**07 54 Thermoplastic Membrane Roofing (07 50)**

Note: Includes 10 year warranty. All warranties are no dollar limit to include material, equipment and labor. Excludes concrete primer, insulation, slip sheets, wood nailers, cant strips, coping removal and reinstallation, gravel stop, walkway pads and drainage devices. See CSI section 07 26 13 00-0000 for wood deck building paper.

**07 54 19 Polyvinyl-Chloride Roofing (07 54)**

**07 54 19 00-0001 Reinforced Polyvinyl Chloride (RPVC) Roofing Membranes (07 54 19)**

Note: Includes polyester fabric reinforcement and hot air welding of seams. RPVC membranes meet or exceed all of the requirements of ASTM D4434 Type III.

07 54 19 00-0002	SQ	48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted .....	185.13	33.15
		Note: Includes ballast.		
		For Up To 10, Add	29.00	
		For >10 To 25, Add	22.42	
		For 15 Year Warranty, Add	3.00	
		For Colors, Add	26.00	
		For Integral Polyester Fleece-Backing, Add	40.06	
07 54 19 00-0003	SQ	60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted .....	210.22	35.21
		Note: Includes ballast.		
		For Up To 10, Add	31.49	
		For >10 To 25, Add	24.50	
		For 15 Year Warranty, Add	3.00	
		For 20 Year Warranty, Add	6.00	
		For 25 Year Warranty, Add	8.00	
		For Colors, Add	26.00	
		For Integral Polyester Fleece-Backing, Add	40.06	
07 54 19 00-0004	SQ	72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted .....	239.07	36.25
		Note: Includes ballast.		
		For Up To 10, Add	33.55	
		For >10 To 25, Add	26.35	
		For 15 Year Warranty, Add	3.00	
		For 20 Year Warranty, Add	6.00	
		For 25 Year Warranty, Add	8.00	
		For Colors, Add	26.00	
		For Integral Polyester Fleece-Backing, Add	40.06	
07 54 19 00-0005	SQ	80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Ballasted .....	252.77	37.28
		Note: Includes ballast.		
		For Up To 10, Add	34.85	
		For >10 To 25, Add	27.45	
		For 15 Year Warranty, Add	3.00	
		For 20 Year Warranty, Add	6.00	
		For 25 Year Warranty, Add	8.00	
		For Colors, Add	26.00	
		For Integral Polyester Fleece-Backing, Add	40.06	
07 54 19 00-0006	SQ	48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered .....	262.02	66.29
		Note: Includes adhesive.		
		For Up To 10, Add	52.59	
		For >10 To 25, Add	39.43	
		For 15 Year Warranty, Add	3.00	
		For Colors, Add	26.00	
		For Low VOC Adhesive, Add	33.08	
		For Integral Polyester Fleece-Backing, Add	40.06	

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 54 Thermoplastic Membrane Roofing**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 19 00-0007	SQ		60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	287.12	68.36
			Note: Includes adhesive.		
			For Up To 10, Add	55.08	
			For >10 To 25, Add	41.51	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Low VOC Adhesive, Add	33.08	
			For Integral Polyester Fleece-Backing, Add	40.06	
07 54 19 00-0008	SQ		72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	315.96	69.39
			Note: Includes adhesive.		
			For Up To 10, Add	57.14	
			For >10 To 25, Add	43.36	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Low VOC Adhesive, Add	33.08	
			For Integral Polyester Fleece-Backing, Add	40.06	
07 54 19 00-0009	SQ		80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Fully Adhered.....	329.67	70.43
			Note: Includes adhesive.		
			For Up To 10, Add	58.44	
			For >10 To 25, Add	44.46	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Low VOC Adhesive, Add	33.08	
			For Integral Polyester Fleece-Backing, Add	40.06	
07 54 19 00-0010	SQ		48 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened.....	205.51	49.71
			Note: Includes fasteners.		
			For Up To 10, Add	39.89	
			For >10 To 25, Add	30.02	
			For 15 Year Warranty, Add	3.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	40.06	
07 54 19 00-0011	SQ		60 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened.....	230.62	51.79
			Note: Includes fasteners.		
			For Up To 10, Add	42.38	
			For >10 To 25, Add	32.10	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	40.06	
07 54 19 00-0012	SQ		72 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened.....	259.45	52.83
			Note: Includes fasteners.		
			For Up To 10, Add	44.44	
			For >10 To 25, Add	33.95	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	40.06	
07 54 19 00-0013	SQ		80 Mil, Single Ply Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane, Mechanically Fastened.....	273.16	53.86
			Note: Includes fasteners.		
			For Up To 10, Add	45.74	
			For >10 To 25, Add	35.05	
			For 15 Year Warranty, Add	3.00	
			For 20 Year Warranty, Add	6.00	
			For 25 Year Warranty, Add	8.00	
			For Colors, Add	26.00	
			For Integral Polyester Fleece-Backing, Add	40.06	
07 54 19 00-0014			<b>Reinforced Polyvinyl Chloride (RPVC) Roofing Membrane Accessories</b> (07 54 19)		
07 54 19 00-0015	SQ		Acrylic, Polyvinyl Chloride (PVC) Roofing Cleaner/Primer, Price Per Coat.....	42.80	
			For Up To 10, Add	7.08	
			For >10 To 25, Add	5.43	
07 54 19 00-0016	SQ		Acrylic Elastomeric, Surface Or Base Coating For Polyvinyl Chloride (PVC) Roofing, Price Per Coat.....	44.11	
			Note: 55% solids by volume.		
			For Up To 10, Add	7.14	
			For >10 To 25, Add	5.50	
07 54 19 00-0017	EA		Up To 3" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot.....	43.77	7.04
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 19 00-0018	EA		>3" To 7" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot.....	60.29	7.88
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 19 00-0019	EA		>7" To 12" Pipe Diameter, Prefabricated Polyvinyl Chloride (PVC) Pipe Cone/Boot.....	76.34	8.70
			Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 19 00-0020	EA		6" Diameter, Prefabricated Polyvinyl Chloride (PVC) Penetration Pocket.....	95.78	8.70
			Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.		
07 54 19 00-0021	LF		36" Wide, Polyvinyl Chloride (PVC) Walkway Protection Pad.....	18.74	4.80
07 54 19 00-0022	SF		Polyvinyl Chloride (PVC) Membrane Base Flashing.....	4.91	1.24
07 54 19 00-0023	SF		Polyvinyl Chloride (PVC) Membrane Curb Flashing.....	6.14	1.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 54 19 00-0024 SF Polyvinyl Chloride (PVC) Clad Edge Metal Or Base Flashing..... Note: 20 Mil polyvinyl chloride (PVC) membrane laminated to 24 gauge galvanized steel.	6.41	1.24
<b>07 54 23 Thermoplastic-Polyolefin Roofing (07 54)</b>		
<b>07 54 23 00-0001 Thermoplastic Polyolefin (TPO) Roofing Membranes (07 54 23)</b>		
Note: Includes polyester fabric reinforcement and hot air welding of seams.		
07 54 23 00-0002 SQ 45 Mil, Single Ply TPO Roofing Membrane, Fully Adhered .....	238.19	66.29
Note: Includes adhesive.		
<i>For Up To 10, Add</i> 51.40		
<i>For &gt;10 To 25, Add</i> 38.24		
<i>For 15 Year Warranty, Add</i> 3.00		
<i>For Low VOC Adhesive, Add</i> 53.76		
<i>For Integral Polyester Fleece-Backing, Add</i> 33.25		
07 54 23 00-0003 SQ 60 Mil, Single Ply TPO Roofing Membrane, Fully Adhered .....	252.77	68.36
Note: Includes adhesive.		
<i>For Up To 10, Add</i> 53.36		
<i>For &gt;10 To 25, Add</i> 39.79		
<i>For 15 Year Warranty, Add</i> 3.00		
<i>For 20 Year Warranty, Add</i> 6.00		
<i>For 25 Year Warranty, Add</i> 8.00		
<i>For Low VOC Adhesive, Add</i> 53.76		
<i>For Integral Polyester Fleece-Backing, Add</i> 33.25		
07 54 23 00-0004 SQ 80 Mil, Single Ply TPO Roofing Membrane, Fully Adhered .....	310.49	70.43
Note: Includes adhesive.		
<i>For Up To 10, Add</i> 57.48		
<i>For &gt;10 To 25, Add</i> 43.50		
<i>For 15 Year Warranty, Add</i> 3.00		
<i>For 20 Year Warranty, Add</i> 6.00		
<i>For 25 Year Warranty, Add</i> 8.00		
<i>For Low VOC Adhesive, Add</i> 53.76		
<i>For Integral Polyester Fleece-Backing, Add</i> 33.25		
07 54 23 00-0005 SQ 45 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened .....	164.78	49.71
Note: Includes fasteners.		
<i>For Up To 10, Add</i> 37.86		
<i>For &gt;10 To 25, Add</i> 27.98		
<i>For 15 Year Warranty, Add</i> 3.00		
<i>For Integral Polyester Fleece-Backing, Add</i> 33.25		
07 54 23 00-0006 SQ 60 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened .....	179.36	51.79
Note: Includes fasteners.		
<i>For Up To 10, Add</i> 39.82		
<i>For &gt;10 To 25, Add</i> 29.54		
<i>For 15 Year Warranty, Add</i> 3.00		
<i>For 20 Year Warranty, Add</i> 6.00		
<i>For 25 Year Warranty, Add</i> 8.00		
<i>For Integral Polyester Fleece-Backing, Add</i> 33.25		
07 54 23 00-0007 SQ 80 Mil, Single Ply TPO Roofing Membrane, Mechanically Fastened .....	237.08	53.86
Note: Includes fasteners.		
<i>For Up To 10, Add</i> 43.94		
<i>For &gt;10 To 25, Add</i> 33.24		
<i>For 15 Year Warranty, Add</i> 3.00		
<i>For 20 Year Warranty, Add</i> 6.00		
<i>For 25 Year Warranty, Add</i> 8.00		
<i>For Integral Polyester Fleece-Backing, Add</i> 33.25		
<b>07 54 23 00-0008 Thermoplastic Polyolefin (TPO) Roofing Membrane Accessories (07 54 23)</b>		
07 54 23 00-0009 SQ Acrylic, TPO Roofing Primer, Price Per Coat.....	50.01	
<i>For Up To 10, Add</i> 7.44		
<i>For &gt;10 To 25, Add</i> 5.79		
07 54 23 00-0010 SQ Acrylic Elastomeric, Surface Or Base Coating For TPO Roofing, Price Per Coat.....	44.11	
Note: 55% solids by volume.		
<i>For Up To 10, Add</i> 7.14		
<i>For &gt;10 To 25, Add</i> 5.50		
<i>For Tan Or Gray Color, Add</i> 1.38		
07 54 23 00-0011 EA Up To 3" Pipe Diameter, Prefabricated TPO Pipe Cone/Boot .....	38.27	7.04
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 23 00-0012 EA >3" To 8" Pipe Diameter, Prefabricated TPO Pipe Cone/Boot.....	41.45	7.88
Note: Includes attaching the boot to the membrane, caulking around the pipe and installing a draw band.		
07 54 23 00-0013 EA 6" Diameter, Prefabricated TPO Penetration Pocket .....	72.84	8.70
Note: Includes attaching the pocket to the membrane, sealing around the penetration and filling the pocket with pourable sealer.		
07 54 23 00-0014 LF 30" Wide, TPO Walkway Protection Pad .....	18.54	4.80
07 54 23 00-0015 SF TPO Membrane Base Flashing.....	5.10	1.24
07 54 23 00-0016 SF TPO Curb Flashing .....	4.83	1.24
<i>For Tan Or Gray Color, Add</i> 0.06		
07 54 23 00-0017 SF TPO Clad Edge Metal Or Base Flashing .....	7.17	1.24
Note: 20 Mil TPO membrane laminated to 24 gauge galvanized steel.		

**07 56 Fluid-Applied Roofing (07 50)**

07 56 00 00-0001 Neoprene Hypalon Liquid Roofing, 5 Coats (07 56)

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 56 Fluid-Applied Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 56 00 00-0002 SQ 60 Mil 5 Coat Spray-on Neoprene Hypalon Liquid Roofing..... <i>For Each Additional Coat, Add</i>	845.84 126.88	110.12
<b>07 56 00 00-0003 Vinyl Spray Liquid Roofing (07 56)</b>		
07 56 00 00-0004 SQ 2 Mil Vinyl Liquid Roofing.....	771.03	116.05
07 56 00 00-0005 SQ 4 Mil Vinyl Liquid Roofing.....	862.53	129.61
<b>07 56 00 00-0006 Silicone Elastomeric Liquid Roofing (07 56)</b>		
07 56 00 00-0007 SQ 65% Solids, Silicone Elastomeric Spray-on Roofing, 3 Coats, 16 Mil Per Coat.....	263.73	66.50
07 56 00 00-0008 SQ 65% Solids, Silicone Elastomeric Rolled-on Roofing, 3 Coats, 16 Mil Per Coat.....	328.18	66.50
07 56 00 00-0009 SQ 65% Solids, Silicone Elastomeric Brushed-on Roofing, 3 Coats, 16 Mil Per Coat.....	376.64	66.50
<b>07 56 00 00-0010 Rubberized Acrylic Roof Coating, Sprayed On (07 56)</b> Note: As manufactured by Tru-Co, Inc.		
<b>07 56 00 00-0011 Rubberized Acrylic Roof Coating, Sprayed On Assemblies (07 56 00 00-0010)</b>		
07 56 00 00-0012 SQ Elastomeric Installation Over Urethane Foam.....	623.50	
07 56 00 00-0013 SQ Elastomeric Installation Over Decks.....	640.32	
07 56 00 00-0014 SQ Elastomeric Installation Over Exterior, Waterproofing.....	262.83	
07 56 00 00-0015 SQ Installation Over Existing Tar (Asphalt) And Gravel Roof.....	804.67	
07 56 00 00-0016 SQ Installation Over New Construction, Waterproofing.....	460.59	
07 56 00 00-0017 SQ Installation Over Mobile Home.....	301.89	
07 56 00 00-0018 SQ Installation Over Corrugated Metal Roofs.....	356.29	
07 56 00 00-0019 SQ Installation Over Granulate Mineral Surface, BUR Cap Sheet (Semi-Smooth) Surface.....	677.89	
07 56 00 00-0020 SQ 4" Acrylic Gel With Fabric (Apply At Edges).....	2.36	
07 56 00 00-0021 SQ 6" Acrylic Gel With Fabric (Apply At Edges).....	3.30	
<b>07 56 00 00-0022 Polyurethane Roof Coating, Sprayed On Assemblies (07 56)</b> Note: Includes powerwash, primer, base coat, polyester reinforcement, top coat and finish coat.		
07 56 00 00-0023 SF Up To 50 SF White (High-Albedo) Polyurethane Coating.....	9.70	
07 56 00 00-0024 SF >50 To 100 SF White (High-Albedo) Polyurethane Coating.....	9.35	
07 56 00 00-0025 SF >100 To 500 SF White (High-Albedo) Polyurethane Coating.....	9.01	
07 56 00 00-0026 SEA >500 To 1,000 SF White (High-Albedo) Polyurethane Coating.....	8.57	
<b>07 56 00 00-0027 Elastomeric Asphalt/Urethane Liquid Roofing Membrane (07 56)</b>		
07 56 00 00-0028 SQ 90 Mil, Elastomeric Asphalt/Urethane Liquid Roofing Membrane..... Note: Includes applying a 30 mil base coat, rolling in a stichbonded polyester reinforcing scrim and applying a 60 mil second coat.	864.95	66.50
<b>07 56 00 00-0029 Urethane Liquid Roofing Membrane (07 56)</b> Note: Garland White Knight Energy Star single component urethane restoration system. 10 year warranty. Used for restoration of membrane, built up, metal and modified roofing systems.		
07 56 00 00-0030 SQ Ulti-Mat™ 38" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems.....	46.60	
07 56 00 00-0031 LF Ulti-Mat™ 6" Non-Woven Fiberglass Reinforcing Membrane For White-Knight Systems.....	3.71	
07 56 00 00-0032 SQ White-Knight® Premium Multi-Purpose Urethane Restoration Reflective Coating For Metal, Membrane, BUR, Single-Ply (2 GAL/SQ).....	18.63	
07 56 00 00-0033 SQ White-Knight® Metal Primer One Component Metal Primer For Placement Under The White-Knight System (0.25 GAL/SQ).....	11.01	
07 56 00 00-0034 SQ White-Knight® Plus High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply (2 GAL/SQ).....	255.57	
07 56 00 00-0035 SQ White-Knight® Plus Base Coat High Strength, Multi-Purpose Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply (0.5 GAL/SQ).....	11.01	
07 56 00 00-0036 SQ White-Knight® WC Multi-Purpose, VOC Compliant, Urethane Restoration Coating For Metal, Membrane, BUR, Single-Ply (2 GAL/SQ).....	269.21	
07 56 00 00-0037 SQ White-Star Premium, White Polyurea Restoration Adhesive For Mineral And Smooth Modified And BUR (2 GAL/SQ).....	18.63	
<b>07 57 Coated Foamed Roofing (07 50)</b>		
<b>07 57 13 Sprayed Polyurethane Foam Roofing (07 57)</b> Note: Includes power washing. Excludes ballast removal and priming metal surfaces. Excludes walkways.		
07 57 13 00-0001 Sprayed Polyurethane Foam Roofing Systems (07 57 13)		
07 57 13 00-0002 Sprayed Polyurethane Foam Roofing Systems With Acrylic Elastomeric Coating (07 57 13 00-0001)		
<b>07 57 13 00-0003 Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating (07 57 13 00-0002)</b> Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 5 year warranty.		
07 57 13 00-0004 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....	263.52	40.32
07 57 13 00-0005 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating.....	315.50	43.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 57 13 00-0006 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating .....	367.48	46.08
07 57 13 00-0007 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating .....	481.69	51.84
07 57 13 00-0008 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating .....	575.38	57.61
07 57 13 00-0009 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating .....	679.33	63.37
07 57 13 00-0010 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 28 Mil Acrylic Elastomeric Coating .....	783.28	69.13
<b>07 57 13 00-0011 Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating</b> <small>(07 57 13 00-0002)</small>		
<small>Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 10 year warranty.</small>		
07 57 13 00-0012 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating .....	271.50	40.32
07 57 13 00-0013 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating .....	323.48	43.20
07 57 13 00-0014 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating .....	375.46	46.08
07 57 13 00-0015 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating .....	479.41	51.84
07 57 13 00-0016 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating .....	583.36	57.61
07 57 13 00-0017 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating .....	687.31	63.37
07 57 13 00-0018 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 32 Mil Acrylic Elastomeric Coating .....	791.26	69.13
<b>07 57 13 00-0019 Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating</b> <small>(07 57 13 00-0002)</small>		
<small>Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with acrylic elastomeric coating. Includes 15 year warranty.</small>		
07 57 13 00-0020 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....	290.89	40.32
07 57 13 00-0021 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....	341.15	43.20
07 57 13 00-0022 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....	391.43	46.08
07 57 13 00-0023 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....	495.38	51.84
07 57 13 00-0024 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....	641.98	57.61
07 57 13 00-0025 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....	754.60	63.37
07 57 13 00-0026 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 40 Mil Acrylic Elastomeric Coating .....	867.22	69.13
<b>07 57 13 00-0027 Sprayed Polyurethane Foam Roofing Systems With Silicone Elastomeric Coating</b> <small>(07 57 13 00-0001)</small>		
<b>07 57 13 00-0028 Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating</b> <small>(07 57 13 00-0027)</small>		
<small>Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 5 year warranty.</small>		
07 57 13 00-0029 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....	296.59	40.32
07 57 13 00-0030 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....	352.90	43.20
07 57 13 00-0031 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....	409.22	46.08
07 57 13 00-0032 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....	521.84	51.84
07 57 13 00-0033 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....	634.45	57.61
07 57 13 00-0034 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....	747.07	63.37
07 57 13 00-0035 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 20 Mil Silicone Elastomeric Coating .....	859.69	69.13
<b>07 57 13 00-0036 Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating</b> <small>(07 57 13 00-0027)</small>		
<small>Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 10 year warranty.</small>		
07 57 13 00-0037 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating .....	307.88	40.32

**07 Thermal And Moisture Protection****07 50 Membrane Roofing****07 57 Coated Foamed Roofing**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 57 13 00-0038 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	364.19	43.20
07 57 13 00-0039 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	420.51	46.08
07 57 13 00-0040 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	533.13	51.84
07 57 13 00-0041 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	645.74	57.61
07 57 13 00-0042 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	758.36	63.37
07 57 13 00-0043 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 22 Mil Silicone Elastomeric Coating.....	870.98	69.13
<b>07 57 13 00-0044 Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating</b> <sup>(07 57 13 00-0027)</sup> Note: Includes UL 790 fire rated 2.8 LB density polyurethane foam roofing system with 65% solids silicone elastomeric coating. Includes 15 year warranty.		
07 57 13 00-0045 SQ 1" Thick, R6.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	316.66	40.32
07 57 13 00-0046 SQ 1-1/2" Thick, R9.75, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	372.97	43.20
07 57 13 00-0047 SQ 2" Thick, R13.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	429.29	46.08
07 57 13 00-0048 SQ 3" Thick, R19.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	541.91	51.84
07 57 13 00-0049 SQ 4" Thick, R26.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	654.52	57.61
07 57 13 00-0050 SQ 5" Thick, R32.5, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	767.14	63.37
07 57 13 00-0051 SQ 6" Thick, R39.0, 2.8 PCF, Closed Cell, Sprayed Polyurethane Foam Roofing System With 25 Mil Silicone Elastomeric Coating.....	879.76	69.13
<b>07 58 Roll Roofing</b> <sup>(07 50)</sup>		
<b>07 58 00 00-0001 Prepared Roll Roofing</b> <sup>(07 58)</sup> Note: Fastened with roofing nails and roofing cement. Includes fasteners and adhesive. Excludes warranty. See CSI section 07 51 13 00-0033 for underlayment.		
07 58 00 00-0002 SQ Granule Surfaced, 90 LB, Asphalt Saturated Organic Felt Roll Roofing.....	135.71	25.93
<b>07 59 Membrane Roofing Accessories</b> <sup>(07 50)</sup>		
<b>07 59 00 00-0001 Membrane Roofing Accessories</b> <sup>(07 59)</sup>		
07 59 00 00-0002 LF Roofing Membrane Termination Bar..... Note: Includes fasteners and caulking.	3.36	1.19
<b>07 60 Flashing And Sheet Metal</b> <sup>(07)</sup> Note: Includes placement of materials on roof up to 2-1/2 stories.		
<b>07 62 Sheet Metal Flashing And Trim</b> <sup>(07 60)</sup>		
<b>07 62 00 00-0001 Lead Flashing And Trim</b> <sup>(07 62)</sup>		
07 62 00 00-0002 SF 2.5 LB/SF Sheet Lead Flashing.....	19.88	5.41
07 62 00 00-0003 SF 4 LB/SF Sheet Lead Flashing.....	24.99	5.41
<b>07 62 00 00-0004 Copper Flashing And Trim</b> <sup>(07 62)</sup>		
<b>07 62 00 00-0005 Copper Flashing And Trim</b> <sup>(07 62 00 00-0004)</sup>		
07 62 00 00-0006 SF 16 Ounce, 0.021" Thick, Copper Flashing And Trim..... For >500 To 2,000, Deduct -2.61 For >2,000, Deduct -3.00 For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add 2.09 For Wrap Around Window Panning, Add 10.47	18.43	5.29
07 62 00 00-0007 SF 20 Ounce, 0.027" Thick, Copper Flashing And Trim..... For >500 To 2,000, Deduct -2.70 For >2,000, Deduct -3.11 For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add 2.19 For Wrap Around Window Panning, Add 10.94	19.10	5.41
07 62 00 00-0008 SF 24 Ounce, 0.032" Thick, Copper Flashing And Trim..... For >500 To 2,000, Deduct -2.99 For >2,000, Deduct -3.48 For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add 2.29 For Wrap Around Window Panning, Add 11.46	21.25	5.78
07 62 00 00-0009 SF 32 Ounce, 0.043" Thick, Copper Flashing And Trim..... For >500 To 2,000, Deduct -3.50 For >2,000, Deduct -4.15 For Copper Valley For Steep Slope Roofing, Over 7 To 12, Add 2.41 For Wrap Around Window Panning, Add 12.03	25.08	6.02





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>07 62 00 00-0010</b> <b>Stainless Steel Flashing And Trim</b> <small>(07 62)</small>		
<b>07 62 00 00-0011</b> <b>Stainless Steel Flashing And Trim</b> <small>(07 62 00 00-0010)</small>		
07 62 00 00-0012      SF    32 Gauge, 0.010" Thick, Stainless Steel Flashing And Trim.....	9.90	2.89
<i>For Wrap Around Window Panning, Add</i>		
	7.43	
<i>For Mechanically Keyed Flashing, Add</i>		
	0.99	
07 62 00 00-0013      SF    28 Gauge, 0.015" Thick, Stainless Steel Flashing And Trim.....	11.13	3.38
<i>For Wrap Around Window Panning, Add</i>		
	7.43	
<i>For Mechanically Keyed Flashing, Add</i>		
	1.48	
07 62 00 00-0014      SF    26 Gauge, 0.018" Thick, Stainless Steel Flashing And Trim.....	12.54	3.97
<i>For Wrap Around Window Panning, Add</i>		
	7.92	
<i>For Mechanically Keyed Flashing, Add</i>		
	1.85	
07 62 00 00-0015      SF    24 Gauge, 0.025" Thick, Stainless Steel Flashing And Trim.....	14.52	4.21
<i>For Wrap Around Window Panning, Add</i>		
	8.36	
<i>For Mechanically Keyed Flashing, Add</i>		
	2.46	
<b>07 62 00 00-0016</b> <b>Stainless Steel Drip Edge</b> <small>(07 62 00 00-0010)</small>		
Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
<b>07 62 00 00-0017</b> <b>26 Gauge, Stainless Steel Drip Edge</b> <small>(07 62 00 00-0016)</small>		
07 62 00 00-0018      LF    Up To 5" Girth, 26 Gauge, Stainless Steel Drip Edge.....	5.23	0.86
07 62 00 00-0019      LF    >5" To 7" Girth, 26 Gauge, Stainless Steel Drip Edge.....	6.40	0.86
07 62 00 00-0020      LF    >7" To 9" Girth, 26 Gauge, Stainless Steel Drip Edge.....	7.27	0.86
07 62 00 00-0021      LF    >9" To 12" Girth, 26 Gauge, Stainless Steel Drip Edge.....	8.73	0.86
07 62 00 00-0022      LF    >12" To 15" Girth, 26 Gauge, Stainless Steel Drip Edge.....	11.06	0.86
<b>07 62 00 00-0023</b> <b>24 Gauge, Stainless Steel Drip Edge</b> <small>(07 62 00 00-0016)</small>		
07 62 00 00-0024      LF    Up To 5" Girth, 24 Gauge, Stainless Steel Drip Edge.....	6.33	0.86
07 62 00 00-0025      LF    >5" To 7" Girth, 24 Gauge, Stainless Steel Drip Edge.....	7.87	0.86
07 62 00 00-0026      LF    >7" To 9" Girth, 24 Gauge, Stainless Steel Drip Edge.....	9.02	0.86
07 62 00 00-0027      LF    >9" To 12" Girth, 24 Gauge, Stainless Steel Drip Edge.....	10.93	0.86
07 62 00 00-0028      LF    >12" To 15" Girth, 24 Gauge, Stainless Steel Drip Edge.....	14.00	0.86
<b>07 62 00 00-0029</b> <b>22 Gauge, Stainless Steel Drip Edge</b> <small>(07 62 00 00-0016)</small>		
07 62 00 00-0030      LF    Up To 5" Girth, 22 Gauge, Stainless Steel Drip Edge.....	7.63	0.86
07 62 00 00-0031      LF    >5" To 7" Girth, 22 Gauge, Stainless Steel Drip Edge.....	9.59	0.86
07 62 00 00-0032      LF    >7" To 9" Girth, 22 Gauge, Stainless Steel Drip Edge.....	11.07	0.86
07 62 00 00-0033      LF    >9" To 12" Girth, 22 Gauge, Stainless Steel Drip Edge.....	13.53	0.86
07 62 00 00-0034      LF    >12" To 15" Girth, 22 Gauge, Stainless Steel Drip Edge.....	17.46	0.86
<b>07 62 00 00-0035</b> <b>Aluminum Flashing And Trim</b> <small>(07 62)</small>		
<b>07 62 00 00-0036</b> <b>Aluminum Flashing And Trim</b> <small>(07 62 00 00-0035)</small>		
07 62 00 00-0037      SF    0.013" Thick, Mill Finish, Aluminum Flashing And Trim.....	10.41	3.73
<i>For Baked Aluminum Colors, Add</i>		
	0.21	
<i>For Wrap Around Window Panning, Add</i>		
	8.30	
07 62 00 00-0038      SF    0.016" Thick, Mill Finish, Aluminum Flashing And Trim.....	10.87	3.73
<i>For Baked Aluminum Colors, Add</i>		
	0.26	
<i>For Wrap Around Window Panning, Add</i>		
	8.30	
07 62 00 00-0039      SF    0.019" Thick, Mill Finish, Aluminum Flashing And Trim.....	11.23	3.73
<i>For Baked Aluminum Colors, Add</i>		
	0.29	
<i>For Wrap Around Window Panning, Add</i>		
	8.30	
07 62 00 00-0040      SF    0.024" Thick, Mill Finish, Aluminum Flashing And Trim.....	11.76	3.73
<i>For Baked Aluminum Colors, Add</i>		
	0.35	
<i>For Wrap Around Window Panning, Add</i>		
	8.30	
07 62 00 00-0041      SF    0.032" Thick, Mill Finish, Aluminum Flashing And Trim.....	12.50	3.73
<i>For Baked Aluminum Colors, Add</i>		
	0.42	
<i>For Wrap Around Window Panning, Add</i>		
	8.30	
07 62 00 00-0042      SF    0.040" Thick, Mill Finish, Aluminum Flashing And Trim.....	12.95	3.73
<i>For Baked Aluminum Colors, Add</i>		
	0.47	
<i>For Wrap Around Window Panning, Add</i>		
	8.30	
07 62 00 00-0043      SF    0.050" Thick, Mill Finish, Aluminum Flashing And Trim.....	13.32	3.73
<i>For Baked Aluminum Colors, Add</i>		
	0.50	
<i>For Wrap Around Window Panning, Add</i>		
	8.30	
<b>07 62 00 00-0044</b> <b>Aluminum Drip Edge</b> <small>(07 62 00 00-0035)</small>		
Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
<b>07 62 00 00-0045</b> <b>KYNAR 500® Finish, Aluminum Drip Edge</b> <small>(07 62 00 00-0044)</small>		
<b>07 62 00 00-0046</b> <b>0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge</b> <small>(07 62 00 00-0045)</small>		
07 62 00 00-0047      LF    Up To 5" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	3.56	0.86
07 62 00 00-0048      LF    >5" To 7" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	4.22	0.86
07 62 00 00-0049      LF    >7" To 9" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	4.61	0.86
07 62 00 00-0050      LF    >9" To 12" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	5.39	0.86
07 62 00 00-0051      LF    >12" To 15" Girth, 0.016" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	6.78	0.86

**07 Thermal And Moisture Protection****07 60 Flashing And Sheet Metal****07 62 Sheet Metal Flashing And Trim**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 00 00-0052			<b>0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge</b> <small>(07 62 00 00-0045)</small>		
07 62 00 00-0053	LF		Up To 5" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	3.78	0.86
07 62 00 00-0054	LF		>5" To 7" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	4.46	0.86
07 62 00 00-0055	LF		>7" To 9" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	4.98	0.86
07 62 00 00-0056	LF		>9" To 12" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	5.83	0.86
07 62 00 00-0057	LF		>12" To 15" Girth, 0.019" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	7.20	0.86
07 62 00 00-0058			<b>0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge</b> <small>(07 62 00 00-0045)</small>		
07 62 00 00-0059	LF		Up To 5" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	4.00	0.86
07 62 00 00-0060	LF		>5" To 7" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	4.76	0.86
07 62 00 00-0061	LF		>7" To 9" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	5.33	0.86
07 62 00 00-0062	LF		>9" To 12" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	6.27	0.86
07 62 00 00-0063	LF		>12" To 15" Girth, 0.025" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	7.78	0.86
07 62 00 00-0064			<b>0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge</b> <small>(07 62 00 00-0045)</small>		
07 62 00 00-0065	LF		Up To 5" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	4.44	0.86
07 62 00 00-0066	LF		>5" To 7" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	5.34	0.86
07 62 00 00-0067	LF		>7" To 9" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	6.02	0.86
07 62 00 00-0068	LF		>9" To 12" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	7.15	0.86
07 62 00 00-0069	LF		>12" To 15" Girth, 0.032" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	8.95	0.86
07 62 00 00-0070			<b>0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge</b> <small>(07 62 00 00-0045)</small>		
07 62 00 00-0071	LF		Up To 5" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	4.59	0.86
07 62 00 00-0072	LF		>5" To 7" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	5.56	0.86
07 62 00 00-0073	LF		>7" To 9" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	6.26	0.86
07 62 00 00-0074	LF		>9" To 12" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	7.44	0.86
07 62 00 00-0075	LF		>12" To 15" Girth, 0.040" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	9.34	0.86
07 62 00 00-0076			<b>0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge</b> <small>(07 62 00 00-0045)</small>		
07 62 00 00-0077	LF		Up To 5" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	5.10	0.86
07 62 00 00-0078	LF		>5" To 7" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	6.22	0.86
07 62 00 00-0079	LF		>7" To 9" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	7.06	0.86
07 62 00 00-0080	LF		>9" To 12" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	8.46	0.86
07 62 00 00-0081	LF		>12" To 15" Girth, 0.050" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	10.71	0.86
07 62 00 00-0082			<b>0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge</b> <small>(07 62 00 00-0045)</small>		
07 62 00 00-0083	LF		Up To 5" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	5.83	0.86
07 62 00 00-0084	LF		>5" To 7" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	7.20	0.86
07 62 00 00-0085	LF		>7" To 9" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	8.22	0.86
07 62 00 00-0086	LF		>9" To 12" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	9.93	0.86
07 62 00 00-0087	LF		>12" To 15" Girth, 0.063" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	12.66	0.86
07 62 00 00-0088			<b>0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge</b> <small>(07 62 00 00-0045)</small>		
07 62 00 00-0089	LF		Up To 5" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	6.71	0.86
07 62 00 00-0090	LF		>5" To 7" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	8.37	0.86
07 62 00 00-0091	LF		>7" To 9" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	9.61	0.86
07 62 00 00-0092	LF		>9" To 12" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	11.69	0.86
07 62 00 00-0093	LF		>12" To 15" Girth, 0.080" Thick, KYNAR 500® Finish, Aluminum Drip Edge.....	15.00	0.86
07 62 00 00-0094			<b>Mill Finish, Aluminum Drip Edge</b> <small>(07 62 00 00-0044)</small>		
07 62 00 00-0095			<b>0.016" Thick, Mill Finish, Aluminum Drip Edge</b> <small>(07 62 00 00-0094)</small>		
07 62 00 00-0096	LF		Up To 5" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	2.99	0.86
07 62 00 00-0097	LF		>5" To 7" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	3.45	0.86
07 62 00 00-0098	LF		>7" To 9" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	3.72	0.86
07 62 00 00-0099	LF		>9" To 12" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	4.25	0.86
07 62 00 00-0100	LF		>12" To 15" Girth, 0.016" Thick, Mill Finish, Aluminum Drip Edge.....	5.21	0.86
07 62 00 00-0101			<b>0.019" Thick, Mill Finish, Aluminum Drip Edge</b> <small>(07 62 00 00-0094)</small>		
07 62 00 00-0102	LF		Up To 5" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	3.14	0.86
07 62 00 00-0103	LF		>5" To 7" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	3.61	0.86
07 62 00 00-0104	LF		>7" To 9" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	3.97	0.86
07 62 00 00-0105	LF		>9" To 12" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	4.56	0.86
07 62 00 00-0106	LF		>12" To 15" Girth, 0.019" Thick, Mill Finish, Aluminum Drip Edge.....	5.50	0.86
07 62 00 00-0107			<b>0.025" Thick, Mill Finish, Aluminum Drip Edge</b> <small>(07 62 00 00-0094)</small>		
07 62 00 00-0108	LF		Up To 5" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	3.30	0.86
07 62 00 00-0109	LF		>5" To 7" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	3.82	0.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 62 00 00-0110 LF >7" To 9" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	4.21	0.86
07 62 00 00-0111 LF >9" To 12" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	4.86	0.86
07 62 00 00-0112 LF >12" To 15" Girth, 0.025" Thick, Mill Finish, Aluminum Drip Edge.....	5.90	0.86
<b>07 62 00 00-0113 0.032" Thick, Mill Finish, Aluminum Drip Edge (07 62 00 00-0094)</b>		
07 62 00 00-0114 LF Up To 5" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	3.60	0.86
07 62 00 00-0115 LF >5" To 7" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	4.22	0.86
07 62 00 00-0116 LF >7" To 9" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	4.69	0.86
07 62 00 00-0117 LF >9" To 12" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	5.47	0.86
07 62 00 00-0118 LF >12" To 15" Girth, 0.032" Thick, Mill Finish, Aluminum Drip Edge.....	6.71	0.86
<b>07 62 00 00-0119 0.040" Thick, Mill Finish, Aluminum Drip Edge (07 62 00 00-0094)</b>		
07 62 00 00-0120 LF Up To 5" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	3.70	0.86
07 62 00 00-0121 LF >5" To 7" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	4.37	0.86
07 62 00 00-0122 LF >7" To 9" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	4.85	0.86
07 62 00 00-0123 LF >9" To 12" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	5.67	0.86
07 62 00 00-0124 LF >12" To 15" Girth, 0.040" Thick, Mill Finish, Aluminum Drip Edge.....	6.98	0.86
<b>07 62 00 00-0125 0.050" Thick, Mill Finish, Aluminum Drip Edge (07 62 00 00-0094)</b>		
07 62 00 00-0126 LF Up To 5" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	4.05	0.86
07 62 00 00-0127 LF >5" To 7" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	4.83	0.86
07 62 00 00-0128 LF >7" To 9" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	5.41	0.86
07 62 00 00-0129 LF >9" To 12" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	6.37	0.86
07 62 00 00-0130 LF >12" To 15" Girth, 0.050" Thick, Mill Finish, Aluminum Drip Edge.....	7.92	0.86
<b>07 62 00 00-0131 0.063" Thick, Mill Finish, Aluminum Drip Edge (07 62 00 00-0094)</b>		
07 62 00 00-0132 LF Up To 5" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	4.56	0.86
07 62 00 00-0133 LF >5" To 7" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	5.50	0.86
07 62 00 00-0134 LF >7" To 9" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	6.21	0.86
07 62 00 00-0135 LF >9" To 12" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	7.38	0.86
07 62 00 00-0136 LF >12" To 15" Girth, 0.063" Thick, Mill Finish, Aluminum Drip Edge.....	9.27	0.86
<b>07 62 00 00-0137 0.080" Thick, Mill Finish, Aluminum Drip Edge (07 62 00 00-0094)</b>		
07 62 00 00-0138 LF Up To 5" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	5.16	0.86
07 62 00 00-0139 LF >5" To 7" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	6.31	0.86
07 62 00 00-0140 LF >7" To 9" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	7.17	0.86
07 62 00 00-0141 LF >9" To 12" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	8.60	0.86
07 62 00 00-0142 LF >12" To 15" Girth, 0.080" Thick, Mill Finish, Aluminum Drip Edge.....	10.88	0.86
<b>07 62 00 00-0143 Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0044)</b>		
<b>07 62 00 00-0144 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0143)</b>		
07 62 00 00-0145 LF Up To 5" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	3.67	0.86
07 62 00 00-0146 LF >5" To 7" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.37	0.86
07 62 00 00-0147 LF >7" To 9" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.78	0.86
07 62 00 00-0148 LF >9" To 12" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	5.61	0.86
07 62 00 00-0149 LF >12" To 15" Girth, 0.016" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	7.08	0.86
<b>07 62 00 00-0150 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0143)</b>		
07 62 00 00-0151 LF Up To 5" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	3.90	0.86
07 62 00 00-0152 LF >5" To 7" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.63	0.86
07 62 00 00-0153 LF >7" To 9" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	5.17	0.86
07 62 00 00-0154 LF >9" To 12" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	6.08	0.86
07 62 00 00-0155 LF >12" To 15" Girth, 0.019" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	7.52	0.86
<b>07 62 00 00-0156 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0143)</b>		
07 62 00 00-0157 LF Up To 5" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.14	0.86
07 62 00 00-0158 LF >5" To 7" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.94	0.86
07 62 00 00-0159 LF >7" To 9" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	5.55	0.86
07 62 00 00-0160 LF >9" To 12" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	6.54	0.86
07 62 00 00-0161 LF >12" To 15" Girth, 0.025" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	8.14	0.86
<b>07 62 00 00-0162 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge (07 62 00 00-0143)</b>		
07 62 00 00-0163 LF Up To 5" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.60	0.86
07 62 00 00-0164 LF >5" To 7" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	5.56	0.86
07 62 00 00-0165 LF >7" To 9" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	6.28	0.86
07 62 00 00-0166 LF >9" To 12" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	7.47	0.86
07 62 00 00-0167 LF >12" To 15" Girth, 0.032" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	9.39	0.86

**07 Thermal And Moisture Protection****07 60 Flashing And Sheet Metal****07 62 Sheet Metal Flashing And Trim**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>07 62 00 00-0168 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge</b> (07 62 00 00-0143)		
07 62 00 00-0169 LF Up To 5" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	4.76	0.86
07 62 00 00-0170 LF >5" To 7" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	5.79	0.86
07 62 00 00-0171 LF >7" To 9" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	6.53	0.86
07 62 00 00-0172 LF >9" To 12" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	7.78	0.86
07 62 00 00-0173 LF >12" To 15" Girth, 0.040" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	9.80	0.86
<b>07 62 00 00-0174 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge</b> (07 62 00 00-0143)		
07 62 00 00-0175 LF Up To 5" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	5.30	0.86
07 62 00 00-0176 LF >5" To 7" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	6.49	0.86
07 62 00 00-0177 LF >7" To 9" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	7.38	0.86
07 62 00 00-0178 LF >9" To 12" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	8.87	0.86
07 62 00 00-0179 LF >12" To 15" Girth, 0.050" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	11.25	0.86
<b>07 62 00 00-0180 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge</b> (07 62 00 00-0143)		
07 62 00 00-0181 LF Up To 5" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	6.08	0.86
07 62 00 00-0182 LF >5" To 7" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	7.52	0.86
07 62 00 00-0183 LF >7" To 9" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	8.61	0.86
07 62 00 00-0184 LF >9" To 12" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	10.42	0.86
07 62 00 00-0185 LF >12" To 15" Girth, 0.063" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	13.32	0.86
<b>07 62 00 00-0186 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge</b> (07 62 00 00-0143)		
07 62 00 00-0187 LF Up To 5" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	7.01	0.86
07 62 00 00-0188 LF >5" To 7" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	8.77	0.86
07 62 00 00-0189 LF >7" To 9" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	10.08	0.86
07 62 00 00-0190 LF >9" To 12" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	12.28	0.86
07 62 00 00-0191 LF >12" To 15" Girth, 0.080" Thick, Clear Anodized Finish, Aluminum Drip Edge.....	15.80	0.86
<b>07 62 00 00-0192 Steel Flashing And Trim</b> (07 62)		
<b>07 62 00 00-0193 Galvanized Steel Flashing And Trim</b> (07 62 00 00-0192)		
07 62 00 00-0194 SF 26 Gauge, Galvanized Steel Flashing.....	12.25	3.85
For Wrap Around Window Panning, Add	8.36	
07 62 00 00-0195 SF 24 Gauge, Galvanized Steel Flashing.....	12.56	3.85
For Wrap Around Window Panning, Add	8.36	
<b>07 62 00 00-0196 Galvanized Steel Drip Edge</b> (07 62 00 00-0192)		
Note: Girth (stretch-out) equals the total (flattened) width of the drip edge.		
<b>07 62 00 00-0197 Galvanized Steel Drip Edge</b> (07 62 00 00-0196)		
<b>07 62 00 00-0198 26 Gauge, Galvanized Steel Drip Edge</b> (07 62 00 00-0197)		
07 62 00 00-0199 LF Up To 5" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	3.55	0.86
07 62 00 00-0200 LF >5" To 7" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	4.17	0.86
07 62 00 00-0201 LF >7" To 9" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	4.62	0.86
07 62 00 00-0202 LF >9" To 12" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	5.37	0.86
07 62 00 00-0203 LF >12" To 15" Girth, 26 Gauge, Galvanized Steel Drip Edge.....	6.59	0.86
<b>07 62 00 00-0204 24 Gauge, Galvanized Steel Drip Edge</b> (07 62 00 00-0197)		
07 62 00 00-0205 LF Up To 5" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	3.83	0.86
07 62 00 00-0206 LF >5" To 7" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	4.54	0.86
07 62 00 00-0207 LF >7" To 9" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	5.05	0.86
07 62 00 00-0208 LF >9" To 12" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	5.92	0.86
07 62 00 00-0209 LF >12" To 15" Girth, 24 Gauge, Galvanized Steel Drip Edge.....	7.31	0.86
<b>07 62 00 00-0210 KYNAR 500® Finish, Galvanized Steel Drip Edge</b> (07 62 00 00-0196)		
<b>07 62 00 00-0211 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge</b> (07 62 00 00-0210)		
07 62 00 00-0212 LF Up To 5" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	4.37	0.86
07 62 00 00-0213 LF >5" To 7" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	5.27	0.86
07 62 00 00-0214 LF >7" To 9" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	5.92	0.86
07 62 00 00-0215 LF >9" To 12" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	7.01	0.86
07 62 00 00-0216 LF >12" To 15" Girth, 26 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	8.77	0.86
<b>07 62 00 00-0217 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge</b> (07 62 00 00-0210)		
07 62 00 00-0218 LF Up To 5" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	4.77	0.86
07 62 00 00-0219 LF >5" To 7" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	5.80	0.86
07 62 00 00-0220 LF >7" To 9" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	6.54	0.86
07 62 00 00-0221 LF >9" To 12" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	7.80	0.86
07 62 00 00-0222 LF >12" To 15" Girth, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Drip Edge.....	9.83	0.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**07 63 Sheet Metal Roofing Specialties** (07 60)

**07 63 00 00-0001 Pitch Pockets** (07 63)

Note: Cut into deck, filled with non-shrink grout, includes blocking.

**07 63 00 00-0002 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pockets** (07 63 00 00-0001)

07 63 00 00-0003	EA 4" x 4" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	60.39
	<i>For Pourable Sealer Filled, Add</i>	20.91
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	10.46
07 63 00 00-0004	EA 6" x 6" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	70.27
	<i>For Pourable Sealer Filled, Add</i>	47.08
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	23.61
07 63 00 00-0005	EA 8" x 8" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	83.66
	<i>For Pourable Sealer Filled, Add</i>	83.66
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	41.73
07 63 00 00-0006	EA 8" x 10" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	92.23
	<i>For Pourable Sealer Filled, Add</i>	104.57
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	52.46
07 63 00 00-0007	EA 8" x 12" 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	99.84
	<i>For Pourable Sealer Filled, Add</i>	125.49
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	62.75
07 63 00 00-0008	SF 24 Gauge Galvanized Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	115.93
	<i>For Pourable Sealer Filled, Add</i>	188.23
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	93.54

**07 63 00 00-0009 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pockets** (07 63 00 00-0001)

07 63 00 00-0010	EA 4" x 4" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	81.57
	<i>For Pourable Sealer Filled, Add</i>	20.91
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	10.46
07 63 00 00-0011	EA 6" x 6" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	95.30
	<i>For Pourable Sealer Filled, Add</i>	47.08
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	23.61
07 63 00 00-0012	EA 8" x 8" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	113.01
	<i>For Pourable Sealer Filled, Add</i>	83.66
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	41.73
07 63 00 00-0013	EA 8" x 10" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	125.03
	<i>For Pourable Sealer Filled, Add</i>	104.57
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	52.46
07 63 00 00-0014	EA 8" x 12" 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	133.47
	<i>For Pourable Sealer Filled, Add</i>	125.49
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	62.75
07 63 00 00-0015	SF 16 Ounce Copper Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	151.52
	<i>For Pourable Sealer Filled, Add</i>	188.23
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	93.54

**07 63 00 00-0016 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pockets** (07 63 00 00-0001)

07 63 00 00-0017	EA 4" x 4" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	71.80
	<i>For Pourable Sealer Filled, Add</i>	20.91
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	10.46
07 63 00 00-0018	EA 6" x 6" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	83.14
	<i>For Pourable Sealer Filled, Add</i>	47.08
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	23.61
07 63 00 00-0019	EA 8" x 8" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	95.26
	<i>For Pourable Sealer Filled, Add</i>	83.66
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	41.73
07 63 00 00-0020	EA 8" x 10" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	103.60
	<i>For Pourable Sealer Filled, Add</i>	104.57
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	52.46
07 63 00 00-0021	EA 8" x 12" 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	110.92
	<i>For Pourable Sealer Filled, Add</i>	125.49
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	62.75
07 63 00 00-0022	SF 24 Gauge Stainless Steel Sheet Metal, Non-Shrink Grout Filled Pitch Pocket.....	126.26
	<i>For Pourable Sealer Filled, Add</i>	188.23
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	93.54

**07 63 00 00-0023 Clean, Repair And Refill Existing Pitch Pockets With Non-Shrink Grout** (07 63 00 00-0001)

Note: Includes removing existing filler and refilling with non-shrink grout.

07 63 00 00-0024	EA Clean, Repair And Refill Existing 4" x 4" Pitch Pocket With Non-Shrink Grout.....	55.82
	<i>For Pourable Sealer Filled, Add</i>	20.91
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	10.46
07 63 00 00-0025	EA Clean, Repair And Refill Existing 6" x 6" Pitch Pocket With Non-Shrink Grout.....	62.49
	<i>For Pourable Sealer Filled, Add</i>	47.08
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	23.61
07 63 00 00-0026	EA Clean, Repair And Refill Existing 8" x 8" Pitch Pocket With Non-Shrink Grout.....	71.21
	<i>For Pourable Sealer Filled, Add</i>	83.66
	<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	41.73

**07 Thermal And Moisture Protection****07 60 Flashing And Sheet Metal****07 63 Sheet Metal Roofing Specialties**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 63 00 00-0027	EA		Clean, Repair And Refill Existing 8" x 10" Pitch Pocket With Non-Shrink Grout ..... <i>For Pourable Sealer Filled, Add</i>	76.91 104.57	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	52.46	
07 63 00 00-0028	EA		Clean, Repair And Refill Existing 8" x 12" Pitch Pocket With Non-Shrink Grout ..... <i>For Pourable Sealer Filled, Add</i>	82.61 125.49	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	62.75	
07 63 00 00-0029	SF		Clean, Repair And Refill Existing Pitch Pocket With Non-Shrink Grout ..... <i>For Pourable Sealer Filled, Add</i>	96.27 188.23	
			<i>For Pourable Sealer Top Filled (2" Non-Shrink Grout Topped With 2" Pourable Sealer), Add</i>	93.54	
<b>07 63 00 00-0030</b>			<b>Lead Pipe Flashing For Roofs (07 63)</b>		
			Note: Includes 6" skirt base.		
07 63 00 00-0031	EA		1-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3/4" Pipe.....	88.97	30.92
07 63 00 00-0032	EA		1-1/2" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 1" Pipe.....	88.97	30.92
07 63 00 00-0033	EA		2-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 2" Pipe.....	104.16	30.92
07 63 00 00-0034	EA		3-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3" Pipe.....	112.84	30.92
07 63 00 00-0035	EA		4-1/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 3-1/2" Pipe.....	117.19	30.92
07 63 00 00-0036	EA		4-3/4" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 4" Pipe.....	119.36	30.92
07 63 00 00-0037	EA		6-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 6" Pipe.....	141.06	30.92
07 63 00 00-0038	EA		8-7/8" ID x 12" Riser Pipe, 4 LB Lead Pipe Flashing For Roofs, Fits 8" Pipe.....	150.83	30.92
<b>07 63 00 00-0039</b>			<b>Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing (07 63)</b>		
07 63 00 00-0040	EA		2" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	65.08	19.99
07 63 00 00-0041	EA		3" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	65.37	19.99
07 63 00 00-0042	EA		4" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	66.37	19.99
07 63 00 00-0043	EA		6" Vent Through Roof, Galvanized Metal Flashing With Neoprene Collar, Shingle Roofing.....	71.41	19.99
<b>07 65 Flexible Flashing (07 60)</b>					
<b>07 65 16 Modified Bituminous Sheet Flashing (07 65)</b>					
<b>07 65 16 00-0001</b>			<b>Liquid Flashing System For Modified And BUR Systems (07 65 16)</b>		
			See CSI section 07 51 13 00-0036 for ceramic coated roofing granules.		
07 65 16 00-0002	SF		60 Mil, Urethane Elastomer Liquid Applied Flashing..... Note: Includes applying a 30 mil base coat, rolling in a stitchbonded polyester reinforcing scrim and applying a 30 mil second coat.	7.69	1.66
<b>07 65 19 Plastic Sheet Flashing (07 65)</b>					
<b>07 65 19 00-0001</b>			<b>Plastic Flashing And Trim (07 65 19)</b>		
<b>07 65 19 00-0002</b>			<b>Neoprene Flashing (07 65 19 00-0001)</b>		
<b>07 65 19 00-0003</b>			<b>60 Mil Neoprene Flashing (07 65 19 00-0002)</b>		
07 65 19 00-0004	LF		6" Wide Strip, 60 Mil, Neoprene Flashing.....	6.73	2.33
07 65 19 00-0005	LF		12" Wide Strip, 60 Mil, Neoprene Flashing.....	8.56	2.51
07 65 19 00-0006	LF		18" Wide Strip, 60 Mil, Neoprene Flashing.....	10.65	2.76
07 65 19 00-0007	LF		24" Wide Strip, 60 Mil, Neoprene Flashing.....	12.90	3.11
<b>07 65 33 Plastic Flashing (07 65)</b>					
<b>07 65 33 00-0001</b>			<b>Neoprene Roof Boot (07 65 33)</b>		
07 65 33 00-0002	EA		Neoprene Roof Boot For 2" Diameter Pipe.....	32.70	7.18
07 65 33 00-0003	EA		Neoprene Roof Boot For 3" Diameter Pipe.....	38.38	8.04
07 65 33 00-0004	EA		Neoprene Roof Boot For 4" Diameter Pipe.....	42.59	8.64
<b>07 70 Roof And Wall Specialties And Accessories (07)</b>					
			Note: Includes placement of materials on roof up to 2-1/2 stories.		
<b>07 71 Roof Specialties (07 70)</b>					
<b>07 71 13 Manufactured Copings (07 71)</b>					
<b>07 71 13 00-0001</b>			<b>Galvanized Steel Copings (07 71 13)</b>		
<b>07 71 13 00-0002</b>			<b>KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats (07 71 13 00-0001)</b>		
			Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 13 00-0003	LF		10" To 14" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats.....	19.14	1.87
07 71 13 00-0004	LF		>14" To 16" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats.....	20.22	2.02
07 71 13 00-0005	LF		>16" To 22" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats.....	22.96	2.13
07 71 13 00-0006	LF		>22" To 30" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats.....	26.59	2.33



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	07 71	13 00-0007	LF	>30" To 42" Wide (Stretch-out), 24 Gauge, KYNAR 500® Finish, Galvanized Steel Coping System With Galvanized Steel Cleats .....	31.95	2.44
<b>07 71 13 00-0008</b>				<b>Aluminum Copings</b> <small>(07 71 13)</small>		
<b>07 71 13 00-0009</b>				<b>Mill Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0009)</small> Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
<b>07 71 13 00-0010</b>				<b>0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0009)</small>		
	07 71	13 00-0011	LF	10" To 14" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	15.40	1.87
	07 71	13 00-0012	LF	>14" To 16" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	16.45	2.02
	07 71	13 00-0013	LF	>16" To 22" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	19.05	2.13
	07 71	13 00-0014	LF	>22" To 30" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	22.63	2.33
	07 71	13 00-0015	LF	>30" To 42" Wide (Stretch-out), 0.040" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	27.89	2.44
<b>07 71 13 00-0016</b>				<b>0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0009)</small>		
	07 71	13 00-0017	LF	10" To 14" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	16.63	1.87
	07 71	13 00-0018	LF	>14" To 16" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	17.76	2.02
	07 71	13 00-0019	LF	>16" To 22" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	20.60	2.13
	07 71	13 00-0020	LF	>22" To 30" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	24.51	2.33
	07 71	13 00-0021	LF	>30" To 42" Wide (Stretch-out), 0.050" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	30.28	2.44
<b>07 71 13 00-0022</b>				<b>0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0009)</small>		
	07 71	13 00-0023	LF	10" To 14" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	17.64	1.87
	07 71	13 00-0024	LF	>14" To 16" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	18.93	2.02
	07 71	13 00-0025	LF	>16" To 22" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	22.53	2.13
	07 71	13 00-0026	LF	>22" To 30" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	27.97	2.33
	07 71	13 00-0027	LF	>30" To 42" Wide (Stretch-out), 0.063" Thick, Mill Finish, Aluminum Coping System With Galvanized Steel Cleats .....	35.87	2.44
<b>07 71 13 00-0028</b>				<b>KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0009)</small> Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
<b>07 71 13 00-0029</b>				<b>0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0028)</small>		
	07 71	13 00-0030	LF	10" To 14" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	20.93	1.87
	07 71	13 00-0031	LF	>14" To 16" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	22.34	2.02
	07 71	13 00-0032	LF	>16" To 22" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	26.03	2.13
	07 71	13 00-0033	LF	>22" To 30" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	31.07	2.33
	07 71	13 00-0034	LF	>30" To 42" Wide (Stretch-out), 0.040" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	38.61	2.44
<b>07 71 13 00-0035</b>				<b>0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0028)</small>		
	07 71	13 00-0036	LF	10" To 14" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	22.71	1.87
	07 71	13 00-0037	LF	>14" To 16" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	24.24	2.02
	07 71	13 00-0038	LF	>16" To 22" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	28.28	2.13
	07 71	13 00-0039	LF	>22" To 30" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	33.79	2.33
	07 71	13 00-0040	LF	>30" To 42" Wide (Stretch-out), 0.050" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	42.07	2.44
<b>07 71 13 00-0041</b>				<b>0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats</b> <small>(07 71 13 00-0028)</small>		
	07 71	13 00-0042	LF	10" To 14" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	24.17	1.87
	07 71	13 00-0043	LF	>14" To 16" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	25.93	2.02
	07 71	13 00-0044	LF	>16" To 22" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	31.08	2.13
	07 71	13 00-0045	LF	>22" To 30" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats .....	38.80	2.33

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 71</b>	<b>Roof Specialties</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 13 00-0046	LF		>30" To 42" Wide (Stretch-out), 0.063" Thick, KYNAR 500® Finish, Aluminum Coping System With Galvanized Steel Cleats.....	50.18	2.44
<b>07 71 13 00-0047</b>			<b>Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats</b> (07 71 13 00-0008) Note: Stretch-out width = face height + wall thickness + back leg. Coping system includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
<b>07 71 13 00-0048</b>			<b>0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats</b> (07 71 13 00-0047)		
07 71 13 00-0049	LF		10" To 14" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	22.00	1.87
07 71 13 00-0050	LF		>14" To 16" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	23.48	2.02
07 71 13 00-0051	LF		>16" To 22" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	27.38	2.13
07 71 13 00-0052	LF		>22" To 30" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	32.70	2.33
07 71 13 00-0053	LF		>30" To 42" Wide (Stretch-out), 0.040" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	40.69	2.44
<b>07 71 13 00-0054</b>			<b>0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats</b> (07 71 13 00-0047)		
07 71 13 00-0055	LF		10" To 14" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	23.88	1.87
07 71 13 00-0056	LF		>14" To 16" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	25.49	2.02
07 71 13 00-0057	LF		>16" To 22" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	29.77	2.13
07 71 13 00-0058	LF		>22" To 30" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	35.59	2.33
07 71 13 00-0059	LF		>30" To 42" Wide (Stretch-out), 0.050" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	44.35	2.44
<b>07 71 13 00-0060</b>			<b>0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats</b> (07 71 13 00-0047)		
07 71 13 00-0061	LF		10" To 14" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	25.44	1.87
07 71 13 00-0062	LF		>14" To 16" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	27.29	2.02
07 71 13 00-0063	LF		>16" To 22" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	32.73	2.13
07 71 13 00-0064	LF		>22" To 30" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	40.90	2.33
07 71 13 00-0065	LF		>30" To 42" Wide (Stretch-out), 0.063" Thick, Clear Anodized Finish, Aluminum Coping System With Galvanized Steel Cleats.....	52.95	2.44
<b>07 71 13 00-0066</b>			<b>Remove And Reinstall Metal Coping</b> (07 71 13)		
07 71 13 00-0067	LF		Removal And Reinstallation Of Metal Coping.....	8.36	
<b>07 71 19</b>			<b>Manufactured Gravel Stops And Fasciae</b> (07 71)		
07 71 19 00-0001			<b>Gravel Stop</b> (07 71 19)		
07 71 19 00-0002			<b>Aluminum Gravel Stop</b> (07 71 19 00-0001)		
07 71 19 00-0003			<b>Aluminum Gravel Stop</b> (07 71 19 00-0002)		
07 71 19 00-0004			<b>KYNAR 500® Finish, Aluminum Gravel Stop</b> (07 71 19 00-0003)		
07 71 19 00-0005			<b>0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop</b> (07 71 19 00-0004)		
07 71 19 00-0006	LF		4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	11.35	1.56
07 71 19 00-0007	LF		>6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	11.52	1.61
07 71 19 00-0008	LF		>10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	11.74	1.66
<b>07 71 19 00-0009</b>			<b>0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop</b> (07 71 19 00-0004)		
07 71 19 00-0010	LF		4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	11.96	1.56
07 71 19 00-0011	LF		>6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	12.15	1.61
07 71 19 00-0012	LF		>10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	12.41	1.66
<b>07 71 19 00-0013</b>			<b>0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop</b> (07 71 19 00-0004)		
07 71 19 00-0014	LF		4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	12.75	1.56
07 71 19 00-0015	LF		>6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	12.91	1.61
07 71 19 00-0016	LF		>10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	13.25	1.66





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0017				<b>0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop</b> <small>(07 71 19 00-0004)</small>		
07 71 19 00-0018	LF			4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	13.29	1.56
07 71 19 00-0019	LF			>6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	13.47	1.61
07 71 19 00-0020	LF			>10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop.....	13.84	1.66
07 71 19 00-0021				<b>Mill Finish, Aluminum Gravel Stop</b> <small>(07 71 19 00-0003)</small>		
07 71 19 00-0022				<b>0.032" Thick, Mill Finish, Aluminum Gravel Stop</b> <small>(07 71 19 00-0021)</small>		
07 71 19 00-0023	LF			4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....	7.99	1.56
07 71 19 00-0024	LF			>6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....	8.33	1.61
07 71 19 00-0025	LF			>10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop.....	8.71	1.66
07 71 19 00-0026				<b>0.040" Thick, Mill Finish, Aluminum Gravel Stop</b> <small>(07 71 19 00-0021)</small>		
07 71 19 00-0027	LF			4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....	8.50	1.56
07 71 19 00-0028	LF			>6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....	8.76	1.61
07 71 19 00-0029	LF			>10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop.....	9.04	1.66
07 71 19 00-0030				<b>0.050" Thick, Mill Finish, Aluminum Gravel Stop</b> <small>(07 71 19 00-0021)</small>		
07 71 19 00-0031	LF			4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....	9.00	1.56
07 71 19 00-0032	LF			>6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....	9.27	1.61
07 71 19 00-0033	LF			>10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop.....	9.59	1.66
07 71 19 00-0034				<b>0.063" Thick, Mill Finish, Aluminum Gravel Stop</b> <small>(07 71 19 00-0021)</small>		
07 71 19 00-0035	LF			4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop.....	9.55	1.56
07 71 19 00-0036	LF			>6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop.....	9.77	1.61
07 71 19 00-0037	LF			>10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop.....	9.99	1.66
07 71 19 00-0038				<b>Clear Anodized Finish, Aluminum Gravel Stop</b> <small>(07 71 19 00-0003)</small>		
07 71 19 00-0039				<b>0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop</b> <small>(07 71 19 00-0038)</small>		
07 71 19 00-0040	LF			4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	13.22	1.56
07 71 19 00-0041	LF			>6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	13.47	1.61
07 71 19 00-0042	LF			>10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	13.72	1.66
07 71 19 00-0043				<b>0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop</b> <small>(07 71 19 00-0038)</small>		
07 71 19 00-0044	LF			4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	13.95	1.56
07 71 19 00-0045	LF			>6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	14.23	1.61
07 71 19 00-0046	LF			>10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	14.51	1.66
07 71 19 00-0047				<b>0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop</b> <small>(07 71 19 00-0038)</small>		
07 71 19 00-0048	LF			4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	14.90	1.56
07 71 19 00-0049	LF			>6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	15.14	1.61
07 71 19 00-0050	LF			>10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	15.35	1.66
07 71 19 00-0051				<b>0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop</b> <small>(07 71 19 00-0038)</small>		
07 71 19 00-0052	LF			4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	15.54	1.56
07 71 19 00-0053	LF			>6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	15.81	1.61
07 71 19 00-0054	LF			>10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop.....	16.05	1.66
07 71 19 00-0055				<b>Aluminum Gravel Stop System With Continuous Cleat</b> <small>(07 71 19 00-0002)</small>		
				Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0056				<b>KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat</b> <small>(07 71 19 00-0055)</small>		
07 71 19 00-0057				<b>0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat</b> <small>(07 71 19 00-0056)</small>		
07 71 19 00-0058	LF			4" To 6" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	14.53	2.59
07 71 19 00-0059	LF			>6" To 10" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	15.10	2.68
07 71 19 00-0060	LF			>10" To 18" Face Height, 0.032" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	15.80	2.76
07 71 19 00-0061				<b>0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat</b> <small>(07 71 19 00-0056)</small>		
07 71 19 00-0062	LF			4" To 6" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	15.14	2.59
07 71 19 00-0063	LF			>6" To 10" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	15.74	2.68

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 71</b>	<b>Roof Specialties</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0064 LF >10" To 18" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	16.47	2.76
<b>07 71 19 00-0065 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0056)</b>		
07 71 19 00-0066 LF 4" To 6" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	15.93	2.59
07 71 19 00-0067 LF >6" To 10" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	16.49	2.68
07 71 19 00-0068 LF >10" To 18" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	17.31	2.76
<b>07 71 19 00-0069 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0056)</b>		
07 71 19 00-0070 LF 4" To 6" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	16.46	2.59
07 71 19 00-0071 LF >6" To 10" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	17.05	2.68
07 71 19 00-0072 LF >10" To 18" Face Height, 0.063" Thick, KYNAR 500® Finish, Aluminum Gravel Stop System With Continuous Cleat.....	17.90	2.76
<b>07 71 19 00-0073 Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0055)</b>		
<b>07 71 19 00-0074 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)</b>		
07 71 19 00-0075 LF 4" To 6" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	11.63	2.59
07 71 19 00-0076 LF >6" To 10" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	12.08	2.68
07 71 19 00-0077 LF >10" To 18" Face Height, 0.032" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	12.64	2.76
<b>07 71 19 00-0078 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)</b>		
07 71 19 00-0079 LF 4" To 6" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	12.05	2.59
07 71 19 00-0080 LF >6" To 10" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	12.52	2.68
07 71 19 00-0081 LF >10" To 18" Face Height, 0.040" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	13.10	2.76
<b>07 71 19 00-0082 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)</b>		
07 71 19 00-0083 LF 4" To 6" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	12.59	2.59
07 71 19 00-0084 LF >6" To 10" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	13.04	2.68
07 71 19 00-0085 LF >10" To 18" Face Height, 0.050" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	13.65	2.76
<b>07 71 19 00-0086 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0073)</b>		
07 71 19 00-0087 LF 4" To 6" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	12.96	2.59
07 71 19 00-0088 LF >6" To 10" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	13.42	2.68
07 71 19 00-0089 LF >10" To 18" Face Height, 0.063" Thick, Mill Finish, Aluminum Gravel Stop System With Continuous Cleat.....	14.06	2.76
<b>07 71 19 00-0090 Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0055)</b>		
<b>07 71 19 00-0091 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0090)</b>		
07 71 19 00-0092 LF 4" To 6" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	16.40	2.59
07 71 19 00-0093 LF >6" To 10" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	17.05	2.68
07 71 19 00-0094 LF >10" To 18" Face Height, 0.032" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	17.78	2.76
<b>07 71 19 00-0095 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0090)</b>		
07 71 19 00-0096 LF 4" To 6" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	17.13	2.59
07 71 19 00-0097 LF >6" To 10" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	17.81	2.68
07 71 19 00-0098 LF >10" To 18" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	18.57	2.76
<b>07 71 19 00-0099 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat (07 71 19 00-0090)</b>		
07 71 19 00-0100 LF 4" To 6" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	18.07	2.59
07 71 19 00-0101 LF >6" To 10" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	18.72	2.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0102 LF >10" To 18" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	19.41	2.76
<b>07 71 19 00-0103 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0090)		
07 71 19 00-0104 LF 4" To 6" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	18.72	2.59
07 71 19 00-0105 LF >6" To 10" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	19.39	2.68
07 71 19 00-0106 LF >10" To 18" Face Height, 0.063" Thick, Clear Anodized Finish, Aluminum Gravel Stop System With Continuous Cleat.....	20.11	2.76
<b>07 71 19 00-0107 Stainless Steel Gravel Stop</b> (07 71 19 00-0001)		
<b>07 71 19 00-0108 Stainless Steel Gravel Stop</b> (07 71 19 00-0107)		
<b>07 71 19 00-0109 26 Gauge, Stainless Steel Gravel Stop</b> (07 71 19 00-0108)		
07 71 19 00-0110 LF 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....	10.26	1.56
07 71 19 00-0111 LF >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....	12.78	1.61
07 71 19 00-0112 LF >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop.....	18.05	1.66
<b>07 71 19 00-0113 24 Gauge, Stainless Steel Gravel Stop</b> (07 71 19 00-0108)		
07 71 19 00-0114 LF 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....	12.33	1.56
07 71 19 00-0115 LF >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....	15.55	1.61
07 71 19 00-0116 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop.....	22.20	1.66
<b>07 71 19 00-0117 22 Gauge, Stainless Steel Gravel Stop</b> (07 71 19 00-0108)		
07 71 19 00-0118 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....	14.54	1.56
07 71 19 00-0119 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....	18.48	1.61
07 71 19 00-0120 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop.....	26.61	1.66
<b>07 71 19 00-0121 Stainless Steel Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0107) Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
<b>07 71 19 00-0122 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0121)		
07 71 19 00-0123 LF 4" To 6" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat.....	13.75	2.59
07 71 19 00-0124 LF >6" To 10" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat.....	16.77	2.68
07 71 19 00-0125 LF >10" To 18" Face Height, 26 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat.....	22.64	2.76
<b>07 71 19 00-0126 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0121)		
07 71 19 00-0127 LF 4" To 6" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat.....	15.82	2.59
07 71 19 00-0128 LF >6" To 10" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat.....	19.53	2.68
07 71 19 00-0129 LF >10" To 18" Face Height, 24 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat.....	26.79	2.76
<b>07 71 19 00-0130 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0121)		
07 71 19 00-0131 LF 4" To 6" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat.....	18.02	2.59
07 71 19 00-0132 LF >6" To 10" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat.....	22.47	2.68
07 71 19 00-0133 LF >10" To 18" Face Height, 22 Gauge, Stainless Steel Gravel Stop System With Continuous Cleat.....	31.20	2.76
<b>07 71 19 00-0134 Galvanized Steel Gravel Stop</b> (07 71 19 00-0001)		
<b>07 71 19 00-0135 Galvanized Steel Gravel Stop</b> (07 71 19 00-0134)		
<b>07 71 19 00-0136 KYNAR 500® Finish, Galvanized Steel Gravel Stop</b> (07 71 19 00-0135)		
<b>07 71 19 00-0137 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop</b> (07 71 19 00-0136)		
07 71 19 00-0138 LF 4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop.....	11.16	1.56
07 71 19 00-0139 LF >6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop.....	11.32	1.61
07 71 19 00-0140 LF >10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop.....	11.59	1.66
<b>07 71 19 00-0141 Galvanized Steel Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0134) Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
<b>07 71 19 00-0142 KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0141)		
<b>07 71 19 00-0143 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat</b> (07 71 19 00-0142)		
07 71 19 00-0144 LF 4" To 6" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat.....	14.46	2.59
07 71 19 00-0145 LF >6" To 10" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat.....	15.07	2.68

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 71</b>	<b>Roof Specialties</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0146 LF >10" To 18" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Gravel Stop System With Continuous Cleat.....	15.86	2.76
07 71 19 00-0147 Copper Gravel Stop (07 71 19 00-0001)		
07 71 19 00-0148 Copper Gravel Stop (07 71 19 00-0147)		
07 71 19 00-0149 20 Ounce, Copper Gravel Stop (07 71 19 00-0148)		
07 71 19 00-0150 LF 4" To 6" Face Height, 20 Ounce, Copper Gravel Stop.....	38.40	1.56
07 71 19 00-0151 LF >6" To 10" Face Height, 20 Ounce, Copper Gravel Stop.....	43.49	1.61
07 71 19 00-0152 LF >10" To 18" Face Height, 20 Ounce, Copper Gravel Stop.....	49.94	1.66
07 71 19 00-0153 16 Ounce, Copper Gravel Stop (07 71 19 00-0148)		
07 71 19 00-0154 LF 4" To 6" Face Height, 16 Ounce, Copper Gravel Stop.....	46.78	1.56
07 71 19 00-0155 LF >6" To 10" Face Height, 16 Ounce, Copper Gravel Stop.....	53.72	1.61
07 71 19 00-0156 LF >10" To 18" Face Height, 16 Ounce, Copper Gravel Stop.....	61.11	1.66
07 71 19 00-0157 Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0147) Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0158 20 Ounce, Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0157)		
07 71 19 00-0159 LF 4" To 6" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat .....	41.69	2.59
07 71 19 00-0160 LF >6" To 10" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat .....	47.22	2.68
07 71 19 00-0161 LF >10" To 18" Face Height, 20 Ounce, Copper Gravel Stop System With Continuous Cleat .....	54.20	2.76
07 71 19 00-0162 16 Ounce, Copper Gravel Stop System With Continuous Cleat (07 71 19 00-0157)		
07 71 19 00-0163 LF 4" To 6" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat .....	50.06	2.59
07 71 19 00-0164 LF >6" To 10" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat .....	57.45	2.68
07 71 19 00-0165 LF >10" To 18" Face Height, 16 Ounce, Copper Gravel Stop System With Continuous Cleat .....	65.36	2.76
07 71 19 00-0166 Fascia (07 71 19)		
07 71 19 00-0167 Snap-On Cover Fascia (07 71 19 00-0166) Note: Includes matching joint splice plate, galvanized steel cleats and stainless steel fasteners.		
07 71 19 00-0168 Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0167)		
07 71 19 00-0169 KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0168)		
07 71 19 00-0170 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia (07 71 19 00-0169)		
07 71 19 00-0171 LF 3" To 5" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....	14.51	2.16
07 71 19 00-0172 LF >5" To 7" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....	16.09	2.25
07 71 19 00-0173 LF >7" To 9" Face Height, 24 Gauge, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia System With Continuous Cleat.....	17.14	2.33
07 71 19 00-0174 Accessories For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0169)		
07 71 19 00-0175 Fascia Sumps For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0174)		
07 71 19 00-0176 EA Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems .....	85.67	3.02
07 71 19 00-0177 EA Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems .....	91.24	3.02
07 71 19 00-0178 EA Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems .....	94.74	3.02
07 71 19 00-0179 Fascia Spillout Scuppers For KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems (07 71 19 00-0174)		
07 71 19 00-0180 EA Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems.....	70.50	3.02
07 71 19 00-0181 EA Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems .....	73.31	3.02
07 71 19 00-0182 EA Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Galvanized Steel Snap-On Cover Fascia Systems .....	75.03	3.02
07 71 19 00-0183 Aluminum Snap-On Cover Fascia (07 71 19 00-0167)		
07 71 19 00-0184 KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0183)		
07 71 19 00-0185 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0184)		
07 71 19 00-0186 LF 3" To 5" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	14.46	2.16



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 19 00-0187 LF >5" To 7" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	16.24	2.25
07 71 19 00-0188 LF >7" To 9" Face Height, 0.040" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	17.19	2.33
<b>07 71 19 00-0189 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0184)</b>		
07 71 19 00-0190 LF 3" To 5" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	15.12	2.16
07 71 19 00-0191 LF >5" To 7" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	17.09	2.25
07 71 19 00-0192 LF >7" To 9" Face Height, 0.050" Thick, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	18.15	2.33
<b>07 71 19 00-0193 Accessories For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0184)</b>		
<b>07 71 19 00-0194 Fascia Sumps For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0193)</b>		
07 71 19 00-0195 EA Fascia Sump For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	86.73	3.02
07 71 19 00-0196 EA Fascia Sump For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	93.90	3.02
07 71 19 00-0197 EA Fascia Sump For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	97.03	3.02
<b>07 71 19 00-0198 Fascia Spillout Scuppers For KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0193)</b>		
07 71 19 00-0199 EA Fascia Spillout Scupper For 3" To 5" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	69.07	3.02
07 71 19 00-0200 EA Fascia Spillout Scupper For >5" To 7" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	72.64	3.02
07 71 19 00-0201 EA Fascia Spillout Scupper For >7" To 9" Face Height, KYNAR 500® Finish, Aluminum Snap-On Cover Fascia Systems.....	74.20	3.02
<b>07 71 19 00-0202 Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0183)</b>		
<b>07 71 19 00-0203 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0202)</b>		
07 71 19 00-0204 LF 3" To 5" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	16.49	2.16
07 71 19 00-0205 LF >5" To 7" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	18.59	2.25
07 71 19 00-0206 LF >7" To 9" Face Height, 0.040" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	19.70	2.33
<b>07 71 19 00-0207 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat (07 71 19 00-0202)</b>		
07 71 19 00-0208 LF 3" To 5" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	17.28	2.16
07 71 19 00-0209 LF >5" To 7" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	19.61	2.25
07 71 19 00-0210 LF >7" To 9" Face Height, 0.050" Thick, Clear Anodized Finish, Aluminum Snap-On Cover Fascia System With Continuous Cleat.....	20.85	2.33
<b>07 71 19 00-0211 Accessories For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0202)</b>		
<b>07 71 19 00-0212 Fascia Sumps For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0211)</b>		
07 71 19 00-0213 EA Fascia Sump For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	106.90	3.02
07 71 19 00-0214 EA Fascia Sump For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	115.86	3.02
07 71 19 00-0215 EA Fascia Sump For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	119.77	3.02
<b>07 71 19 00-0216 Fascia Spillout Scuppers For Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems (07 71 19 00-0211)</b>		
07 71 19 00-0217 EA Fascia Spillout Scupper For 3" To 5" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	84.82	3.02
07 71 19 00-0218 EA Fascia Spillout Scupper For >5" To 7" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	89.28	3.02
07 71 19 00-0219 EA Fascia Spillout Scupper For >7" To 9" Face Height, Clear Anodized Finish, Aluminum Snap-On Cover Fascia Systems.....	91.23	3.02



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**07 71 23 Manufactured Gutters And Downspouts (07 71)**

Note: Includes all necessary support straps.

07 71 23 00-0001	Aluminum Gutters And Downspouts (07 71 23)		
07 71 23 00-0002	Aluminum Gutters (07 71 23 00-0001)		
	Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
07 71 23 00-0003	K-Style Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0004	LF 5", 0.027" Thick, K-Style Aluminum Gutter .....	6.70	3.01
	For Kynar 500® Finish, Add .....	0.76	
07 71 23 00-0005	LF 6", 0.027" Thick, K-Style Aluminum Gutter .....	7.17	3.01
	For Kynar 500® Finish, Add .....	0.97	
07 71 23 00-0006	LF 5", 0.032" Thick, K-Style Aluminum Gutter .....	6.95	3.01
	For Kynar 500® Finish, Add .....	0.87	
07 71 23 00-0007	LF 6", 0.032" Thick, K-Style Aluminum Gutter .....	7.48	3.01
	For Kynar 500® Finish, Add .....	1.11	
07 71 23 00-0008	LF 7", 0.032" Thick, K-Style Aluminum Gutter .....	12.97	3.01
	For Kynar 500® Finish, Add .....	3.58	
07 71 23 00-0009	LF 8", 0.032" Thick, K-Style Aluminum Gutter .....	13.71	3.01
	For Kynar 500® Finish, Add .....	3.91	
07 71 23 00-0010	LF 8", 0.040" Thick, K-Style Aluminum Gutter .....	15.38	3.01
	For Kynar 500® Finish, Add .....	4.66	
07 71 23 00-0011	Half Round Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0012	LF 5", 0.027" Thick, Half Round Aluminum Gutter .....	11.56	3.01
	For Kynar 500® Finish, Add .....	2.94	
07 71 23 00-0013	LF 6", 0.032" Thick, Half Round Aluminum Gutter .....	13.54	3.01
	For Kynar 500® Finish, Add .....	3.83	
07 71 23 00-0014	Box Style Aluminum Gutters (07 71 23 00-0002)		
07 71 23 00-0015	LF 6", 0.027" Thick, Box Style Aluminum Gutter .....	11.09	3.01
	For Kynar 500® Finish, Add .....	2.73	
07 71 23 00-0016	LF 6", 0.032" Thick, Box Style Aluminum Gutter .....	11.12	3.01
	For Kynar 500® Finish, Add .....	2.75	
07 71 23 00-0017	LF 7", 0.032" Thick, Box Style Aluminum Gutter .....	12.62	3.01
	For Kynar 500® Finish, Add .....	3.42	
07 71 23 00-0018	LF 8", 0.032" Thick, Box Style Aluminum Gutter .....	13.97	3.01
	For Kynar 500® Finish, Add .....	4.03	
07 71 23 00-0019	Aluminum Gutter End Caps (07 71 23 00-0001)		
07 71 23 00-0020	K-Style, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0021	EA 5", K-Style Aluminum Gutter End Cap .....	3.00	
	For Kynar 500® Finish, Add .....	0.27	
07 71 23 00-0022	EA 6", K-Style Aluminum Gutter End Cap .....	3.47	
	For Kynar 500® Finish, Add .....	0.48	
07 71 23 00-0023	EA 7", K-Style Aluminum Gutter End Cap .....	6.36	
	For Kynar 500® Finish, Add .....	1.78	
07 71 23 00-0024	EA 8", K-Style Aluminum Gutter End Cap .....	7.25	
	For Kynar 500® Finish, Add .....	2.18	
07 71 23 00-0025	Half Round, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0026	EA 5", Half Round Aluminum Gutter End Cap .....	4.21	
	For Kynar 500® Finish, Add .....	0.81	
07 71 23 00-0027	EA 6", Half Round Aluminum Gutter End Cap .....	5.97	
	For Kynar 500® Finish, Add .....	1.60	
07 71 23 00-0028	Box Style, Aluminum Gutter End Caps (07 71 23 00-0019)		
07 71 23 00-0029	EA 6", Box Style Aluminum Gutter End Cap .....	6.85	
	For Kynar 500® Finish, Add .....	2.00	
07 71 23 00-0030	EA 7", Box Style Aluminum Gutter End Cap .....	7.36	
	For Kynar 500® Finish, Add .....	2.23	
07 71 23 00-0031	EA 8", Box Style Aluminum Gutter End Cap .....	8.46	
	For Kynar 500® Finish, Add .....	2.72	
07 71 23 00-0032	Aluminum Gutter Miters (07 71 23 00-0001)		
	Note: Inside or outside miters.		
07 71 23 00-0033	K-Style, Aluminum Gutter Miters (07 71 23 00-0032)		
07 71 23 00-0034	EA 5", K-Style Aluminum Gutter Miter .....	8.84	
	For Kynar 500® Finish, Add .....	2.08	
07 71 23 00-0035	EA 6", K-Style Aluminum Gutter Miter .....	12.22	
	For Kynar 500® Finish, Add .....	3.60	
07 71 23 00-0036	EA 7", K-Style Aluminum Gutter Miter .....	42.75	
	For Kynar 500® Finish, Add .....	17.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0037 EA 8", K-Style Aluminum Gutter Miter ..... <i>For Kynar 500® Finish, Add</i>	46.18 18.89	
<b>07 71 23 00-0038 Half Round, Aluminum Gutter Miters (07 71 23 00-0032)</b>		
07 71 23 00-0039 EA 5", Half Round Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	17.33 5.90	
07 71 23 00-0040 EA 6", Half Round Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	28.37 10.87	
<b>07 71 23 00-0041 Box Style, Aluminum Gutter Miters (07 71 23 00-0032)</b>		
07 71 23 00-0042 EA 6", Box Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	34.42 13.59	
07 71 23 00-0043 EA 7", Box Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	52.39 21.68	
07 71 23 00-0044 EA 8", Box Style Aluminum Gutter Miter..... <i>For Kynar 500® Finish, Add</i>	56.67 23.61	
<b>07 71 23 00-0045 Aluminum Gutter Wire Strainers (07 71 23 00-0001)</b>		
07 71 23 00-0046 EA 3" Diameter, Round Aluminum Wire Strainer..... <i>For Kynar 500® Finish, Add</i>	11.19 2.21	3.01
07 71 23 00-0047 EA 4" Diameter, Round Aluminum Wire Strainer..... <i>For Kynar 500® Finish, Add</i>	15.33 4.08	3.01
<b>07 71 23 00-0048 Aluminum Downspouts (07 71 23 00-0001)</b> Note: Includes elbows, hangers and fasteners.		
<b>07 71 23 00-0049 Round Aluminum Downspouts (07 71 23 00-0048)</b>		
07 71 23 00-0050 LF 3" Diameter, Round Aluminum Downspout..... <i>For Kynar 500® Finish, Add</i>	5.44 1.04	2.89
07 71 23 00-0051 LF 4" Diameter, Round Aluminum Downspout..... <i>For Kynar 500® Finish, Add</i>	5.98 1.28	2.89
<b>07 71 23 00-0052 Rectangular Aluminum Downspouts (07 71 23 00-0048)</b>		
07 71 23 00-0053 LF 2" x 3", Rectangular Aluminum Downspout ..... <i>For Kynar 500® Finish, Add</i>	4.31 0.53	2.89
07 71 23 00-0054 LF 3" x 4", Rectangular Aluminum Downspout ..... <i>For Kynar 500® Finish, Add</i>	5.00 0.84	2.89
07 71 23 00-0055 LF 4" x 5", Rectangular Aluminum Downspout ..... <i>For Kynar 500® Finish, Add</i>	7.90 2.15	2.89
<b>07 71 23 00-0056 Aluminum Devices (07 71 23 00-0001)</b>		
07 71 23 00-0057 EA Thru-Wall Aluminum Scupper Outlet ..... <i>For Kynar 500® Finish, Add</i>	150.88 38.74	19.44
07 71 23 00-0058 EA Aluminum Leader/Conductor Head..... <i>For Kynar 500® Finish, Add</i>	143.60 45.18	21.60
<b>07 71 23 00-0059 Copper Gutters And Downspouts (07 71 23)</b>		
<b>07 71 23 00-0060 Copper Gutters (07 71 23 00-0059)</b> Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
<b>07 71 23 00-0061 K-Style Copper Gutters (07 71 23 00-0060)</b>		
07 71 23 00-0062 LF 4", 16 Ounce, K-Style Copper Gutter.....	14.15	3.01
07 71 23 00-0063 LF 5", 16 Ounce, K-Style Copper Gutter.....	19.85	3.01
07 71 23 00-0064 LF 6", 16 Ounce, K-Style Copper Gutter.....	23.50	3.01
07 71 23 00-0065 LF 5", 20 Ounce, K-Style Copper Gutter.....	25.18	3.01
07 71 23 00-0066 LF 6", 20 Ounce, K-Style Copper Gutter.....	31.04	3.01
07 71 23 00-0067 LF 7", 20 Ounce, K-Style Copper Gutter.....	35.80	3.01
07 71 23 00-0068 LF 8", 20 Ounce, K-Style Copper Gutter.....	39.31	3.01
<b>07 71 23 00-0069 Half Round Copper Gutters (07 71 23 00-0060)</b>		
07 71 23 00-0070 LF 5", 16 Ounce, Half Round Copper Gutter .....	17.07	3.01
07 71 23 00-0071 LF 6", 16 Ounce, Half Round Copper Gutter .....	21.42	3.01
07 71 23 00-0072 LF 7", 16 Ounce, Half Round Copper Gutter .....	35.91	3.01
07 71 23 00-0073 LF 5", 20 Ounce, Half Round Copper Gutter .....	19.98	3.01
07 71 23 00-0074 LF 6", 20 Ounce, Half Round Copper Gutter .....	24.52	3.01
07 71 23 00-0075 LF 7", 20 Ounce, Half Round Copper Gutter .....	37.79	3.01
07 71 23 00-0076 LF 8", 20 Ounce, Half Round Copper Gutter .....	42.46	3.01
<b>07 71 23 00-0077 Copper Gutter End Caps (07 71 23 00-0059)</b>		
<b>07 71 23 00-0078 K-Style, Copper Gutter End Caps (07 71 23 00-0077)</b>		
07 71 23 00-0079 EA 4", K-Style Copper Gutter End Cap .....	5.56	

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 71</b>	<b>Roof Specialties</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0080	EA		5", K-Style Copper Gutter End Cap .....	5.90	
07 71 23 00-0081	EA		6", K-Style Copper Gutter End Cap .....	6.25	
07 71 23 00-0082	EA		7", K-Style Copper Gutter End Cap .....	15.56	
07 71 23 00-0083	EA		8", K-Style Copper Gutter End Cap .....	18.83	
<b>07 71 23 00-0084</b>			<b>Half Round, Copper Gutter End Caps (07 71 23 00-0077)</b>		
07 71 23 00-0085	EA		4", Half Round Copper Gutter End Cap .....	6.59	
07 71 23 00-0086	EA		5", Half Round Copper Gutter End Cap .....	7.33	
07 71 23 00-0087	EA		6", Half Round Copper Gutter End Cap .....	10.73	
07 71 23 00-0088	EA		7", Half Round Copper Gutter End Cap .....	31.02	
07 71 23 00-0089	EA		8", Half Round Copper Gutter End Cap .....	36.52	
<b>07 71 23 00-0090</b>			<b>Copper Gutter Miters (07 71 23 00-0059)</b>		
			Note: Inside or outside miters.		
<b>07 71 23 00-0091</b>			<b>K-Style, Copper Gutter Miters (07 71 23 00-0090)</b>		
07 71 23 00-0092	EA		4", K-Style Copper Gutter Miter .....	27.54	
07 71 23 00-0093	EA		5", K-Style Copper Gutter Miter .....	31.12	
07 71 23 00-0094	EA		6", K-Style Copper Gutter Miter .....	46.26	
07 71 23 00-0095	EA		7", K-Style Copper Gutter Miter .....	67.05	
07 71 23 00-0096	EA		8", K-Style Copper Gutter Miter .....	78.99	
<b>07 71 23 00-0097</b>			<b>Half Round, Copper Gutter Miters (07 71 23 00-0090)</b>		
07 71 23 00-0098	EA		4", Half Round Copper Gutter Miter .....	45.32	
07 71 23 00-0099	EA		5", Half Round Copper Gutter Miter .....	40.98	
07 71 23 00-0100	EA		6", Half Round Copper Gutter Miter .....	60.51	
07 71 23 00-0101	EA		7", Half Round Copper Gutter Miter .....	72.58	
07 71 23 00-0102	EA		8", Half Round Copper Gutter Miter .....	86.15	
<b>07 71 23 00-0103</b>			<b>Copper Gutter Wire Strainers (07 71 23 00-0059)</b>		
07 71 23 00-0104	EA		2" Diameter, Round Copper Wire Strainer .....	13.71	3.01
07 71 23 00-0105	EA		3" Diameter, Round Copper Wire Strainer .....	16.16	3.01
07 71 23 00-0106	EA		4" Diameter, Round Copper Wire Strainer .....	24.14	3.01
07 71 23 00-0107	EA		5" Diameter, Round Copper Wire Strainer .....	31.10	3.01
07 71 23 00-0108	EA		6" Diameter, Round Copper Wire Strainer .....	36.92	3.01
<b>07 71 23 00-0109</b>			<b>Copper Downspouts (07 71 23 00-0059)</b>		
			Note: Includes elbows, hangers and fasteners.		
<b>07 71 23 00-0110</b>			<b>Round Copper Downspouts (07 71 23 00-0109)</b>		
07 71 23 00-0111	LF		2" Diameter, 16 Ounce, Round Copper Downspout .....	21.16	2.89
07 71 23 00-0112	LF		3" Diameter, 16 Ounce, Round Copper Downspout .....	15.01	2.89
07 71 23 00-0113	LF		4" Diameter, 16 Ounce, Round Copper Downspout .....	18.68	2.89
07 71 23 00-0114	LF		5" Diameter, 16 Ounce, Round Copper Downspout .....	29.33	2.89
07 71 23 00-0115	LF		6" Diameter, 16 Ounce, Round Copper Downspout .....	37.46	2.89
07 71 23 00-0116	LF		3" Diameter, 20 Ounce, Round Copper Downspout .....	19.99	2.89
07 71 23 00-0117	LF		4" Diameter, 20 Ounce, Round Copper Downspout .....	25.67	2.89
07 71 23 00-0118	LF		5" Diameter, 20 Ounce, Round Copper Downspout .....	38.56	2.89
<b>07 71 23 00-0119</b>			<b>Square Copper Downspouts (07 71 23 00-0109)</b>		
07 71 23 00-0120	LF		3" Diameter, 16 Ounce, Square Copper Downspout .....	10.66	2.89
07 71 23 00-0121	LF		4" Diameter, 16 Ounce, Square Copper Downspout .....	13.11	2.89
07 71 23 00-0122	LF		5" Diameter, 16 Ounce, Square Copper Downspout .....	18.38	2.89
07 71 23 00-0123	LF		3" Diameter, 20 Ounce, Square Copper Downspout .....	12.17	2.89
07 71 23 00-0124	LF		4" Diameter, 20 Ounce, Square Copper Downspout .....	15.22	2.89
07 71 23 00-0125	LF		5" Diameter, 20 Ounce, Square Copper Downspout .....	21.48	2.89
<b>07 71 23 00-0126</b>			<b>Rectangular Copper Downspouts (07 71 23 00-0109)</b>		
07 71 23 00-0127	LF		2" x 3", 16 Ounce, Rectangular Copper Downspout .....	15.38	2.89
07 71 23 00-0128	LF		3" x 4", 16 Ounce, Rectangular Copper Downspout .....	19.22	2.89
07 71 23 00-0129	LF		4" x 5", 16 Ounce, Rectangular Copper Downspout .....	26.97	2.89
07 71 23 00-0130	LF		2" x 3", 20 Ounce, Rectangular Copper Downspout .....	17.77	2.89
07 71 23 00-0131	LF		3" x 4", 20 Ounce, Rectangular Copper Downspout .....	22.53	2.89
07 71 23 00-0132	LF		4" x 5", 20 Ounce, Rectangular Copper Downspout .....	31.96	2.89
<b>07 71 23 00-0133</b>			<b>Copper Devices And Accessories (07 71 23 00-0059)</b>		
07 71 23 00-0134	EA		Thru-Wall Copper Scupper Outlet.....	167.41	19.44
07 71 23 00-0135	EA		Copper Leader/Conductor Head .....	238.55	21.60
07 71 23 00-0136	EA		Copper Eave Box.....	115.91	18.06
<b>07 71 23 00-0137</b>			<b>Galvanized Steel Gutters And Downspouts (07 71 23)</b>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>07 71 23 00-0138 Galvanized Steel Gutters</b> (07 71 23 00-0137) Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
<b>07 71 23 00-0139 K-Style Galvanized Steel Gutters</b> (07 71 23 00-0138)		
07 71 23 00-0140 LF 5", 26 Gauge, K-Style Galvanized Steel Gutter ..... <i>For Kynar 500® Finish, Add</i>	7.72 1.22	3.01
07 71 23 00-0141 LF 6", 26 Gauge, K-Style Galvanized Steel Gutter ..... <i>For Kynar 500® Finish, Add</i>	8.54 1.58	3.01
07 71 23 00-0142 LF 7", 26 Gauge, K-Style Galvanized Steel Gutter ..... <i>For Kynar 500® Finish, Add</i>	15.85 4.87	3.01
07 71 23 00-0143 LF 8", 24 Gauge, K-Style Galvanized Steel Gutter ..... <i>For Kynar 500® Finish, Add</i>	16.26 5.06	3.01
<b>07 71 23 00-0144 Half Round Galvanized Steel Gutters</b> (07 71 23 00-0138)		
07 71 23 00-0145 LF 5", 26 Gauge, Half Round Galvanized Steel Gutter ..... <i>For Kynar 500® Finish, Add</i>	10.50 2.47	3.01
07 71 23 00-0146 LF 6", 26 Gauge, Half Round Galvanized Steel Gutter ..... <i>For Kynar 500® Finish, Add</i>	12.64 3.43	3.01
07 71 23 00-0147 LF 7", 26 Gauge, Half Round Galvanized Steel Gutter ..... <i>For Kynar 500® Finish, Add</i>	29.30 10.93	3.01
07 71 23 00-0148 LF 8", 26 Gauge, Half Round Galvanized Steel Gutter ..... <i>For Kynar 500® Finish, Add</i>	30.80 11.60	3.01
<b>07 71 23 00-0149 Box Style Galvanized Steel Gutters</b> (07 71 23 00-0138)		
07 71 23 00-0150 LF 5", 24 Gauge, Box Style Galvanized Steel Gutter ..... <i>For Kynar 500® Finish, Add</i> <i>For 22 Gauge, Add</i>	11.75 3.03 1.01	3.01
07 71 23 00-0151 LF 6", 24 Gauge, Box Style Galvanized Steel Gutter ..... <i>For Kynar 500® Finish, Add</i> <i>For 22 Gauge, Add</i>	13.25 3.70 1.23	3.01
07 71 23 00-0152 LF 7", 24 Gauge, Box Style Galvanized Steel Gutter ..... <i>For Kynar 500® Finish, Add</i> <i>For 22 Gauge, Add</i>	16.92 5.36 1.79	3.01
07 71 23 00-0153 LF 8", 24 Gauge, Box Style Galvanized Steel Gutter ..... <i>For Kynar 500® Finish, Add</i> <i>For 22 Gauge, Add</i>	17.94 5.81 1.94	3.01
<b>07 71 23 00-0154 Galvanized Steel Gutter End Caps</b> (07 71 23 00-0137)		
<b>07 71 23 00-0155 K-Style, Galvanized Steel Gutter End Caps</b> (07 71 23 00-0154)		
07 71 23 00-0156 EA 5", K-Style Galvanized Steel Gutter End Cap ..... <i>For Kynar 500® Finish, Add</i>	4.02 0.72	
07 71 23 00-0157 EA 6", K-Style Galvanized Steel Gutter End Cap ..... <i>For Kynar 500® Finish, Add</i>	4.45 0.92	
07 71 23 00-0158 EA 7", K-Style Galvanized Steel Gutter End Cap ..... <i>For Kynar 500® Finish, Add</i>	8.22 2.61	
07 71 23 00-0159 EA 8", K-Style Galvanized Steel Gutter End Cap ..... <i>For Kynar 500® Finish, Add</i>	11.38 4.04	
<b>07 71 23 00-0160 Half Round, Galvanized Steel Gutter End Caps</b> (07 71 23 00-0154)		
07 71 23 00-0161 EA 5", Half Round Galvanized Steel Gutter End Cap ..... <i>For Kynar 500® Finish, Add</i>	4.83 1.09	
07 71 23 00-0162 EA 6", Half Round Galvanized Steel Gutter End Cap ..... <i>For Kynar 500® Finish, Add</i>	5.37 1.33	
07 71 23 00-0163 EA 7", Half Round Galvanized Steel Gutter End Cap ..... <i>For Kynar 500® Finish, Add</i>	8.95 2.94	
07 71 23 00-0164 EA 8", Half Round Galvanized Steel Gutter End Cap ..... <i>For Kynar 500® Finish, Add</i>	11.66 4.16	
<b>07 71 23 00-0165 Box Style, Galvanized Steel Gutter End Caps</b> (07 71 23 00-0154)		
07 71 23 00-0166 EA 5", Box Style Galvanized Steel Gutter End Cap ..... <i>For Kynar 500® Finish, Add</i>	7.68 2.37	
07 71 23 00-0167 EA 6", Box Style Galvanized Steel Gutter End Cap ..... <i>For Kynar 500® Finish, Add</i>	9.00 2.97	
07 71 23 00-0168 EA 7", Box Style Galvanized Steel Gutter End Cap ..... <i>For Kynar 500® Finish, Add</i>	9.93 3.38	
07 71 23 00-0169 EA 8", Box Style Galvanized Steel Gutter End Cap ..... <i>For Kynar 500® Finish, Add</i>	12.89 4.72	
<b>07 71 23 00-0170 Galvanized Steel Gutter Miters</b> (07 71 23 00-0137) Note: Inside or outside miters.		
<b>07 71 23 00-0171 K-Style, Galvanized Steel Gutter Miters</b> (07 71 23 00-0170)		
07 71 23 00-0172 EA 5", K-Style Galvanized Steel Gutter Miter ..... <i>For Kynar 500® Finish, Add</i>	15.16 4.93	
07 71 23 00-0173 EA 6", K-Style Galvanized Steel Gutter Miter ..... <i>For Kynar 500® Finish, Add</i>	25.16 9.43	

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 71</b>	<b>Roof Specialties</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0174	EA		7", K-Style Galvanized Steel Gutter Miter .....	41.06	
			<i>For Kynar 500® Finish, Add</i>	16.58	
07 71 23 00-0175	EA		8", K-Style Galvanized Steel Gutter Miter .....	45.99	
			<i>For Kynar 500® Finish, Add</i>	18.80	
<b>07 71 23 00-0176</b>			<b>Half Round, Galvanized Steel Gutter Miters</b> (07 71 23 00-0170)		
07 71 23 00-0177	EA		5", Half Round Galvanized Steel Gutter Miter.....	21.35	
			<i>For Kynar 500® Finish, Add</i>	7.71	
07 71 23 00-0178	EA		6", Half Round Galvanized Steel Gutter Miter.....	23.79	
			<i>For Kynar 500® Finish, Add</i>	8.81	
07 71 23 00-0179	EA		7", Half Round Galvanized Steel Gutter Miter.....	70.80	
			<i>For Kynar 500® Finish, Add</i>	29.97	
07 71 23 00-0180	EA		8", Half Round Galvanized Steel Gutter Miter.....	74.50	
			<i>For Kynar 500® Finish, Add</i>	31.63	
<b>07 71 23 00-0181</b>			<b>Box Style, Galvanized Steel Gutter Miters</b> (07 71 23 00-0170)		
07 71 23 00-0182	EA		5", Box Style Galvanized Steel Gutter Miter.....	20.11	
			<i>For Kynar 500® Finish, Add</i>	7.16	
07 71 23 00-0183	EA		6", Box Style Galvanized Steel Gutter Miter.....	33.35	
			<i>For Kynar 500® Finish, Add</i>	13.11	
07 71 23 00-0184	EA		7", Box Style Galvanized Steel Gutter Miter.....	43.52	
			<i>For Kynar 500® Finish, Add</i>	17.69	
07 71 23 00-0185	EA		8", Box Style Galvanized Steel Gutter Miter.....	45.99	
			<i>For Kynar 500® Finish, Add</i>	18.80	
<b>07 71 23 00-0186</b>			<b>Galvanized Steel Gutter Wire Strainers</b> (07 71 23 00-0137)		
07 71 23 00-0187	EA		3" Diameter, Round Galvanized Steel Wire Strainer.....	10.19	3.01
			<i>For Kynar 500® Finish, Add</i>	1.76	
07 71 23 00-0188	EA		4" Diameter, Round Galvanized Steel Wire Strainer.....	13.52	3.01
			<i>For Kynar 500® Finish, Add</i>	3.26	
<b>07 71 23 00-0189</b>			<b>Galvanized Steel Downspouts</b> (07 71 23 00-0137)		
			Note: Includes elbows, hangers and fasteners.		
<b>07 71 23 00-0190</b>			<b>Round Galvanized Steel Downspouts</b> (07 71 23 00-0189)		
07 71 23 00-0191	LF		3" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....	5.10	2.89
			<i>For Kynar 500® Finish, Add</i>	0.89	
07 71 23 00-0192	LF		4" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....	5.94	2.89
			<i>For Kynar 500® Finish, Add</i>	1.26	
07 71 23 00-0193	LF		5" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....	7.50	2.89
			<i>For Kynar 500® Finish, Add</i>	1.97	
07 71 23 00-0194	LF		6" Diameter, 26 Gauge, Round Galvanized Steel Downspout.....	14.70	2.89
			<i>For Kynar 500® Finish, Add</i>	5.21	
<b>07 71 23 00-0195</b>			<b>Square Galvanized Steel Downspouts</b> (07 71 23 00-0189)		
07 71 23 00-0196	LF		4" x 4", 26 Gauge, Square Galvanized Steel Downspout .....	5.57	2.89
			<i>For Kynar 500® Finish, Add</i>	1.10	
07 71 23 00-0197	LF		5" x 5", 26 Gauge, Square Galvanized Steel Downspout .....	6.68	2.89
			<i>For Kynar 500® Finish, Add</i>	1.60	
<b>07 71 23 00-0198</b>			<b>Rectangular Galvanized Steel Downspouts</b> (07 71 23 00-0189)		
07 71 23 00-0199	LF		2" x 3", 26 Gauge, Rectangular Galvanized Steel Downspout.....	5.16	2.89
			<i>For Kynar 500® Finish, Add</i>	0.91	
07 71 23 00-0200	LF		3" x 4", 26 Gauge, Rectangular Galvanized Steel Downspout.....	6.14	2.89
			<i>For Kynar 500® Finish, Add</i>	1.35	
07 71 23 00-0201	LF		4" x 5", 26 Gauge, Rectangular Galvanized Steel Downspout.....	10.00	2.89
			<i>For Kynar 500® Finish, Add</i>	3.09	
<b>07 71 23 00-0202</b>			<b>Galvanized Steel Devices</b> (07 71 23 00-0137)		
07 71 23 00-0203	EA		Galvanized Steel Leader/Conductor Head.....	169.00	21.60
			<i>For Kynar 500® Finish, Add</i>	56.61	
07 71 23 00-0204	EA		Thru-Wall Galvanized Steel Scupper Outlet .....	113.84	19.44
			<i>For Kynar 500® Finish, Add</i>	22.07	
<b>07 71 23 00-0205</b>			<b>Stainless Steel Gutters And Downspouts</b> (07 71 23)		
			Note: AISI type 304 stainless steel.		
<b>07 71 23 00-0206</b>			<b>Stainless Steel Gutters</b> (07 71 23 00-0205)		
			Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
<b>07 71 23 00-0207</b>			<b>K-Style Stainless Steel Gutters</b> (07 71 23 00-0206)		
07 71 23 00-0208	LF		5", 0.018" Thick, K-Style Stainless Steel Gutter.....	17.11	3.01
07 71 23 00-0209	LF		6", 0.018" Thick, K-Style Stainless Steel Gutter.....	20.13	3.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>07 71 23 00-0210</b> Half Round Stainless Steel Gutters <small>(07 71 23 00-0206)</small>		
07 71 23 00-0211 LF 5", 0.018" Thick, Half Round Stainless Steel Gutter .....	23.32	3.01
07 71 23 00-0212 LF 6", 0.018" Thick, Half Round Stainless Steel Gutter .....	27.86	3.01
<b>07 71 23 00-0213</b> Stainless Steel Gutter End Caps <small>(07 71 23 00-0205)</small>		
<b>07 71 23 00-0214</b> K-Style, Stainless Steel Gutter End Caps <small>(07 71 23 00-0213)</small>		
07 71 23 00-0215 EA 5", K-Style Stainless Steel Gutter End Cap .....	6.19	
07 71 23 00-0216 EA 6", K-Style Stainless Steel Gutter End Cap .....	6.95	
<b>07 71 23 00-0217</b> Half Round, Stainless Steel Gutter End Caps <small>(07 71 23 00-0213)</small>		
07 71 23 00-0218 EA 5", Half Round Stainless Steel Gutter End Cap .....	7.14	
07 71 23 00-0219 EA 6", Half Round Stainless Steel Gutter End Cap .....	8.08	
<b>07 71 23 00-0220</b> Stainless Steel Gutter Miters <small>(07 71 23 00-0205)</small>		
Note: Inside or outside box miters.		
<b>07 71 23 00-0221</b> K-Style, Stainless Steel Gutter Miters <small>(07 71 23 00-0220)</small>		
07 71 23 00-0222 EA 5", K-Style Stainless Steel Gutter Miter .....	23.74	
07 71 23 00-0223 EA 6", K-Style Stainless Steel Gutter Miter .....	38.87	
<b>07 71 23 00-0224</b> Half Round, Stainless Steel Gutter Miters <small>(07 71 23 00-0220)</small>		
07 71 23 00-0225 EA 5", Half Round Stainless Steel Gutter Miter .....	61.55	
07 71 23 00-0226 EA 6", Half Round Stainless Steel Gutter Miter .....	75.39	
<b>07 71 23 00-0227</b> Stainless Steel Gutter Wire Strainers <small>(07 71 23 00-0205)</small>		
07 71 23 00-0228 EA 3" Diameter, Round Stainless Steel Wire Strainer .....	27.34	3.01
07 71 23 00-0229 EA 4" Diameter, Round Stainless Steel Wire Strainer .....	27.92	3.01
<b>07 71 23 00-0230</b> Stainless Steel Downspouts <small>(07 71 23 00-0205)</small>		
Note: Includes elbows, hangers and fasteners.		
<b>07 71 23 00-0231</b> Round Stainless Steel Downspouts <small>(07 71 23 00-0230)</small>		
07 71 23 00-0232 LF 3" Diameter, 0.018" Thick, Round Stainless Steel Downspout .....	16.12	2.89
07 71 23 00-0233 LF 4" Diameter, 0.018" Thick, Round Stainless Steel Downspout .....	27.92	2.89
07 71 23 00-0234 LF 5" Diameter, 0.018" Thick, Round Stainless Steel Downspout .....	42.36	2.89
<b>07 71 23 00-0235</b> Rectangular Stainless Steel Downspouts <small>(07 71 23 00-0230)</small>		
07 71 23 00-0236 LF 2" x 3", 0.018" Thick, Rectangular Stainless Steel Downspout .....	11.16	2.89
07 71 23 00-0237 LF 3" x 4", 0.018" Thick, Rectangular Stainless Steel Downspout .....	14.42	2.89
07 71 23 00-0238 LF 4" x 5", 0.018" Thick, Rectangular Stainless Steel Downspout .....	33.61	2.89
<b>07 71 23 00-0239</b> Stainless Steel Devices <small>(07 71 23 00-0205)</small>		
07 71 23 00-0240 EA Thru-Wall Stainless Steel Scupper Outlet .....	213.07	27.08
07 71 23 00-0241 EA Stainless Steel Leader/Conductor Head .....	236.31	27.08
<b>07 71 23 00-0242</b> Vinyl Gutters And Downspouts <small>(07 71 23)</small>		
<b>07 71 23 00-0243</b> Vinyl Gutters <small>(07 71 23 00-0242)</small>		
Note: Includes drop outlets, hangers and fasteners. Excludes end caps, miters and downspouts.		
<b>07 71 23 00-0244</b> K-Style Vinyl Gutters <small>(07 71 23 00-0243)</small>		
07 71 23 00-0245 LF 4", K-Style Vinyl Gutter .....	8.56	3.01
07 71 23 00-0246 LF 5", K-Style Vinyl Gutter .....	10.38	3.01
<b>07 71 23 00-0247</b> Half Round Vinyl Gutters <small>(07 71 23 00-0243)</small>		
07 71 23 00-0248 LF 4", Half Round Vinyl Gutter .....	8.77	3.01
07 71 23 00-0249 LF 5", Half Round Vinyl Gutter .....	9.10	3.01
<b>07 71 23 00-0250</b> Vinyl Gutter End Caps <small>(07 71 23 00-0242)</small>		
<b>07 71 23 00-0251</b> K-Style, Vinyl Gutter End Caps <small>(07 71 23 00-0250)</small>		
07 71 23 00-0252 EA 4", K-Style Vinyl Gutter End Cap .....	4.98	
07 71 23 00-0253 EA 5", K-Style Vinyl Gutter End Cap .....	6.49	
<b>07 71 23 00-0254</b> Half Round, Vinyl Gutter End Caps <small>(07 71 23 00-0250)</small>		
07 71 23 00-0255 EA 4", Half Round Vinyl Gutter End Cap .....	5.54	
07 71 23 00-0256 EA 5", Half Round Vinyl Gutter End Cap .....	5.28	

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 71</b>	<b>Roof Specialties</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

07 71 23 00-0257	Vinyl Gutter Miters <small>(07 71 23 00-0242)</small> Note: Inside or outside miters.		
07 71 23 00-0258	K-Style, Vinyl Gutter Miters <small>(07 71 23 00-0257)</small>		
07 71 23 00-0259	EA 4", K-Style Vinyl Gutter Miter .....	11.59	
07 71 23 00-0260	EA 5", K-Style Vinyl Gutter Miter .....	16.47	
07 71 23 00-0261	Half Round, Vinyl Gutter Miters <small>(07 71 23 00-0257)</small>		
07 71 23 00-0262	EA 4", Half Round Vinyl Gutter Miter .....	11.59	
07 71 23 00-0263	EA 5", Half Round Vinyl Gutter Miter .....	12.43	
07 71 23 00-0264	Vinyl Downspouts <small>(07 71 23 00-0242)</small> Note: Includes elbows, hangers and fasteners.		
07 71 23 00-0265	Round Vinyl Downspouts <small>(07 71 23 00-0264)</small>		
07 71 23 00-0266	LF 2-1/2" Diameter, Round Vinyl Downspout .....	5.55	2.89
07 71 23 00-0267	LF 3" Diameter, Round Vinyl Downspout .....	5.72	2.89
07 71 23 00-0268	Square Vinyl Downspouts <small>(07 71 23 00-0264)</small>		
07 71 23 00-0269	LF 2-1/2", Square Vinyl Downspout .....	5.47	2.89
07 71 23 00-0270	Rectangular Vinyl Downspouts <small>(07 71 23 00-0264)</small>		
07 71 23 00-0271	LF 2" x 3", Rectangular Vinyl Downspout .....	6.61	2.89
07 71 23 00-0272	Gutter And Downspout Boots <small>(07 71 23)</small>		
07 71 23 00-0273	Cast Iron Roof Drainage Downspout Boots <small>(07 71 23 00-0272)</small>		
07 71 23 00-0274	EA 2" x 3" x 18" Long, Cast Iron Roof Drainage Downspout Boot .....	181.49	4.33
07 71 23 00-0275	EA 3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot .....	236.04	4.33
07 71 23 00-0276	EA 4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot .....	281.40	4.33
07 71 23 00-0277	Cast Iron Roof Drainage Downspout Boots With Cleanouts <small>(07 71 23 00-0272)</small>		
07 71 23 00-0278	EA 3" x 4" x 18" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout .....	312.59	4.33
07 71 23 00-0279	EA 4" x 5" x 24" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout .....	381.49	4.33
07 71 23 00-0280	EA 5" x 7" x 30" Long, Cast Iron Roof Drainage Downspout Boot With Cleanout .....	690.91	4.33
07 71 23 00-0281	Wall Mounted Downspout Covers With Hinged Perforated Cover <small>(07 71 23)</small>		
07 71 23 00-0282	EA 3" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-03) .....	646.66	29.23
	For Polished Brass Finish (-PB), Add	58.82	
	For Chrome Plated Finish (-CP), Add	88.23	
	For Vandal Proof (-U), Add	29.41	
07 71 23 00-0283	EA 4" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-04) .....	666.14	38.96
	For Polished Brass Finish (-PB), Add	58.82	
	For Chrome Plated Finish (-CP), Add	88.23	
	For Vandal Proof (-U), Add	29.41	
07 71 23 00-0284	EA 6" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-06) .....	717.52	48.13
	For Polished Brass Finish (-PB), Add	62.13	
	For Chrome Plated Finish (-CP), Add	93.19	
	For Vandal Proof (-U), Add	31.06	
07 71 23 00-0285	EA 8" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-08) .....	772.70	60.77
	For Polished Brass Finish (-PB), Add	65.12	
	For Chrome Plated Finish (-CP), Add	97.67	
	For Vandal Proof (-U), Add	32.56	
07 71 23 00-0286	EA 10" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-10) .....	838.76	74.87
	For Polished Brass Finish (-PB), Add	68.90	
	For Chrome Plated Finish (-CP), Add	103.35	
	For Vandal Proof (-U), Add	34.45	
07 71 23 00-0287	EA 12" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-12) .....	939.93	104.53
	For Polished Brass Finish (-PB), Add	73.09	
	For Chrome Plated Finish (-CP), Add	109.63	
	For Vandal Proof (-U), Add	36.54	
07 71 23 00-0288	EA 15" Pipe Size, Type 304 Stainless Steel Downspout Cover With Hinged Perforated Cover (JR Smith 1775-15) .....	1,062.89	145.37
	For Polished Brass Finish (-PB), Add	77.22	
	For Chrome Plated Finish (-CP), Add	115.82	
	For Vandal Proof (-U), Add	38.61	
07 71 23 00-0289	Wall Mounted Downspout Nozzle <small>(07 71 23)</small>		
07 71 23 00-0290	EA 3" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-03) .....	185.42	29.23
	For Nickel Bronze Finish (-NB), Add	88.89	
	For Polished Bronze Finish (-PB), Add	69.84	
	For Chrome Plated Finish (-CP), Add	113.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 23 00-0291 EA 4" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-04) .....	204.90	38.96
For Nickle Bronze Finish (-NB), Add	88.89	
For Polished Bronze Finish (-PB), Add	69.84	
For Chrome Plated Finish (-CP), Add	113.01	
07 71 23 00-0292 EA 6" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-06) .....	397.50	48.13
For Nickle Bronze Finish (-NB), Add	90.37	
For Polished Bronze Finish (-PB), Add	51.21	
For Chrome Plated Finish (-CP), Add	132.54	
07 71 23 00-0293 EA 8" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-08) .....	578.80	60.77
For Nickle Bronze Finish (-NB), Add	77.73	
For Polished Bronze Finish (-PB), Add	59.44	
For Chrome Plated Finish (-CP), Add	132.60	
07 71 23 00-0294 EA 10" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-10) .....	743.38	74.87
For Nickle Bronze Finish (-NB), Add	100.92	
For Polished Bronze Finish (-PB), Add	77.17	
For Chrome Plated Finish (-CP), Add	172.15	
07 71 23 00-0295 EA 12" Pipe Size, Rough Bronze Finish Downspout Nozzle (JR Smith 1770-12) .....	955.87	104.53
For Nickle Bronze Finish (-NB), Add	126.96	
For Polished Bronze Finish (-PB), Add	97.09	
For Chrome Plated Finish (-CP), Add	216.57	
<b>07 71 23 00-0296 Leaf Guards And Cleaning (07 71 23)</b>		
07 71 23 00-0297 LF Aluminum Mesh Gutter Leaf Guard .....	2.67	0.81
07 71 23 00-0298 LF Vinyl Mesh Gutter Leaf Guard .....	2.25	0.81
07 71 23 00-0299 LF 6" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire .....	11.93	1.01
07 71 23 00-0300 LF 9" Wide Stainless Steel Gutter Leaf Guard, 1/4" x 1/4" x 0.08" Wire .....	16.89	1.01
07 71 23 00-0301 LF 6" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh .....	9.10	1.01
07 71 23 00-0302 LF 9" Wide Stainless Steel Gutter Leaf Guard, 3/8" x 3/8" Mesh .....	13.85	1.01
07 71 23 00-0303 EA Cleanout Roof Drain .....	116.55	
Note: Includes removing dome and flushing.		
07 71 23 00-0304 LF Clean Gutters And Downspouts.....	1.59	
<b>07 71 26 Reglets (07 71)</b>		
07 71 26 00-0001 Counter Flashing With Reglet (07 71 26)		
Note: Includes reglet cut.		
07 71 26 00-0002 Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0003 Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)		
07 71 26 00-0004 LF 28 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet .....	10.80	3.84
07 71 26 00-0005 LF 26 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet .....	10.88	3.84
07 71 26 00-0006 LF 24 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet .....	11.03	3.84
07 71 26 00-0007 LF 22 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet .....	11.60	3.84
07 71 26 00-0008 LF 20 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet .....	11.92	3.84
07 71 26 00-0009 LF 18 Gauge, Up To 12" Wide, Galvanized Steel Counter Flashing With Reglet .....	12.29	3.84
07 71 26 00-0010 KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet (07 71 26 00-0002)		
07 71 26 00-0011 LF 28 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	12.20	3.84
07 71 26 00-0012 LF 26 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	12.32	3.84
07 71 26 00-0013 LF 24 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	12.54	3.84
07 71 26 00-0014 LF 22 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	13.35	3.84
07 71 26 00-0015 LF 20 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	13.82	3.84
07 71 26 00-0016 LF 18 Gauge, Up To 12" Wide, KYNAR 500® Finish, Galvanized Steel Counter Flashing With Reglet.....	14.36	3.84
07 71 26 00-0017 Aluminum Counter Flashing With Reglet (07 71 26 00-0001)		
07 71 26 00-0018 KYNAR 500® Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0019 LF 0.019" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	11.45	3.84
07 71 26 00-0020 LF 0.025" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	12.04	3.84
07 71 26 00-0021 LF 0.032" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	12.63	3.84
07 71 26 00-0022 LF 0.040" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	13.06	3.84
07 71 26 00-0023 LF 0.050" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	14.01	3.84
07 71 26 00-0024 LF 0.063" Thick, Up To 12" Wide, KYNAR 500® Finish, Aluminum Counter Flashing With Reglet.....	15.40	3.84
07 71 26 00-0025 Mill Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0026 LF 0.019" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet .....	10.09	3.84
07 71 26 00-0027 LF 0.025" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet .....	10.47	3.84
07 71 26 00-0028 LF 0.032" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet .....	10.85	3.84
07 71 26 00-0029 LF 0.040" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet .....	11.12	3.84
07 71 26 00-0030 LF 0.050" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet .....	11.73	3.84
07 71 26 00-0031 LF 0.063" Thick, Up To 12" Wide, Mill Finish, Aluminum Counter Flashing With Reglet .....	12.61	3.84
07 71 26 00-0032 Clear Anodized Finish, Aluminum Counter Flashing With Reglet (07 71 26 00-0017)		
07 71 26 00-0033 LF 0.019" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet .....	11.17	3.84
07 71 26 00-0034 LF 0.025" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet .....	11.72	3.84

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 71</b>	<b>Roof Specialties</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 71 26 00-0035 LF 0.032" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet .....	12.27	3.84
07 71 26 00-0036 LF 0.040" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet .....	12.66	3.84
07 71 26 00-0037 LF 0.050" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet .....	13.55	3.84
07 71 26 00-0038 LF 0.063" Thick, Up To 12" Wide, Clear Anodized Finish, Aluminum Counter Flashing With Reglet .....	14.83	3.84
<b>07 71 26 00-0039</b> <b>Stainless Steel Counter Flashing With Reglet</b> (07 71 26 00-0001)		
<b>07 71 26 00-0040</b> <b>Stainless Steel Counter Flashing With Reglet</b> (07 71 26 00-0039)		
07 71 26 00-0041 LF 24 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....	14.34	3.84
07 71 26 00-0042 LF 20 Gauge, Up To 12" Wide, Stainless Steel Counter Flashing With Reglet.....	15.52	3.84
<b>07 71 26 00-0043</b> <b>Copper Counter Flashing With Reglet</b> (07 71 26 00-0001)		
<b>07 71 26 00-0044</b> <b>Copper Counter Flashing With Reglet</b> (07 71 26 00-0043)		
07 71 26 00-0045 LF 16 Ounce, Up To 12" Wide, Copper Counter Flashing With Reglet.....	25.43	3.84
<b>07 72</b> <b>Roof Accessories</b> (07 70)		
<b>07 72 13</b> <b>Manufactured Curbs</b> (07 72)		
<b>07 72 13 00-0001</b> <b>Insulated Galvanized Steel, Prefabricated Roof Curbs</b> (07 72 13)		
<b>07 72 13 00-0002</b> <b>Insulated Galvanized Steel, Prefabricated Roof Curbs</b> (07 72 13 00-0001)		
Note: Includes pressure treated wood nailer, 1-1/2" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction, installation clips and 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips.		
<b>07 72 13 00-0003</b> <b>18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs</b> (07 72 13 00-0002)		
<b>07 72 13 00-0004</b> <b>9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs</b> (07 72 13 00-0003)		
07 72 13 00-0005 EA 26" x 26" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	153.54	76.78
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>		
07 72 13 00-0006 EA 26" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	153.54	76.78
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>		
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		
07 72 13 00-0007 EA 26" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>		
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		
07 72 13 00-0008 EA 26" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>		
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		
07 72 13 00-0009 EA 26" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>		
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>		
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>		
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		
07 72 13 00-0010 EA 26" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>		
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>		
07 72 13 00-0011 EA 38" x 38" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	153.54	76.78
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>		
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>		
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>		
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		
07 72 13 00-0012 EA 38" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	341.94	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>		
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>		
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>		
07 72 13 00-0013 EA 38" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>		
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>		
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		
07 72 13 00-0014 EA 38" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>		
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>		
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>		
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		
07 72 13 00-0015 EA 38" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>		
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>		
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>		
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>		
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0016	EA			38" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	211.12	105.56
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	10.56	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	31.67	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-93.32	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-93.32	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-93.32	
07 72 13 00-0017	EA			50" x 50" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	393.48	86.36
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	30.71	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	70.06	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	60.51	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	122.13	
07 72 13 00-0018	EA			50" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	141.18	
07 72 13 00-0019	EA			50" x 74" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	439.55	95.96
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	34.36	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	78.31	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	163.59	
07 72 13 00-0020	EA			50" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	211.12	105.56
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	10.56	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	31.67	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	151.27	
07 72 13 00-0021	EA			51" x 99" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	230.32	115.16
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	11.52	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	34.55	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	17.31	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-98.08	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-98.08	
07 72 13 00-0022	EA			51" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	556.52	124.76
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	43.18	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	98.83	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	138.94	
07 72 13 00-0023	EA			62" x 62" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	439.55	95.96
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	34.36	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	78.31	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	13.78	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-78.08	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-78.08	
07 72 13 00-0024	EA			62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	469.96	105.56
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	36.44	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	83.44	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	105.33	
07 72 13 00-0025	EA			62" x 86" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	230.32	115.16
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	11.52	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	34.55	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	224.10	
07 72 13 00-0026	EA			62" x 98" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	525.01	115.16
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	40.99	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	93.49	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.51	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-116.18	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-116.18	
07 72 13 00-0027	EA			62" x 122" Outside Frame Dimensions, 9" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	568.84	124.76
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	44.41	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	101.29	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	300.29	
07 72 13 00-0028				<b>12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs</b> (07 72 13 00-0003)		
07 72 13 00-0029	EA			26" x 26" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	326.10	76.78
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	24.93	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	57.54	
07 72 13 00-0030	EA			26" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	153.54	76.78
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	7.68	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	23.03	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	72.83	
07 72 13 00-0031	EA			26" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	84.04	
07 72 13 00-0032	EA			26" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	107.57	
07 72 13 00-0033	EA			26" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-58.08	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	65.16	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	71.88	

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 72</b>	<b>Roof Accessories</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0034 EA 26" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	494.46	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	39.85	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	89.30	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	132.22	
07 72 13 00-0035 EA 38" x 38" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	153.54	76.78
For Sloped Roofs Up To 1 In 12 Pitch, Add	7.68	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	23.03	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	5.88	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-33.33	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-33.33	
07 72 13 00-0036 EA 38" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	47.06	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	94.12	
07 72 13 00-0037 EA 38" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	107.57	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	123.26	
07 72 13 00-0038 EA 38" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-59.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-59.05	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	78.77	
07 72 13 00-0039 EA 38" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-76.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-76.19	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	95.24	
07 72 13 00-0040 EA 38" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	211.12	105.56
For Sloped Roofs Up To 1 In 12 Pitch, Add	10.56	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	31.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-93.32	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-93.32	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-93.32	
07 72 13 00-0041 EA 50" x 50" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	60.51	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	122.13	
07 72 13 00-0042 EA 50" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	141.18	
07 72 13 00-0043 EA 50" x 74" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	163.59	
07 72 13 00-0044 EA 50" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	211.12	105.56
For Sloped Roofs Up To 1 In 12 Pitch, Add	10.56	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	31.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	151.27	
07 72 13 00-0045 EA 51" x 99" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	536.22	115.16
For Sloped Roofs Up To 1 In 12 Pitch, Add	42.11	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	95.73	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	17.31	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-98.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-98.08	
07 72 13 00-0046 EA 51" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	581.17	124.76
For Sloped Roofs Up To 1 In 12 Pitch, Add	45.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	103.76	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	138.94	
07 72 13 00-0047 EA 62" x 62" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	13.78	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-78.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-78.08	
07 72 13 00-0048 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	487.88	105.56
For Sloped Roofs Up To 1 In 12 Pitch, Add	38.23	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	87.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	105.33	
07 72 13 00-0049 EA 62" x 86" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	230.32	115.16
For Sloped Roofs Up To 1 In 12 Pitch, Add	11.52	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	34.55	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	224.10	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0050 EA 62" x 98" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	547.42	115.16
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	43.23	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	97.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.51	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-116.18	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-116.18	
07 72 13 00-0051 EA 62" x 122" Outside Frame Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	593.49	124.76
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	46.87	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	106.22	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	300.29	
<b>07 72 13 00-0052 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs</b> <small>(07 72 13 00-0003)</small>		
07 72 13 00-0053 EA 26" x 26" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	333.94	76.78
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	25.72	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	59.11	
07 72 13 00-0054 EA 26" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	337.30	76.78
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	26.05	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	59.78	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	72.83	
07 72 13 00-0055 EA 26" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	84.04	
07 72 13 00-0056 EA 26" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	390.12	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	30.38	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	69.39	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	107.57	
07 72 13 00-0057 EA 26" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-58.08	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	65.16	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	71.88	
07 72 13 00-0058 EA 26" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	132.22	
07 72 13 00-0059 EA 38" x 38" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	153.54	76.78
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	7.68	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	23.03	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	5.88	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-33.33	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-33.33	
07 72 13 00-0060 EA 38" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	47.06	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	94.12	
07 72 13 00-0061 EA 38" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	107.57	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	123.26	
07 72 13 00-0062 EA 38" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	441.66	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	35.53	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	79.70	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-59.05	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-59.05	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	78.77	
07 72 13 00-0063 EA 38" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-76.19	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-76.19	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	95.24	
07 72 13 00-0064 EA 38" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	211.12	105.56
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	10.56	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	31.67	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-93.32	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-93.32	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-93.32	
07 72 13 00-0065 EA 50" x 50" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	60.51	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	122.13	
07 72 13 00-0066 EA 50" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	141.18	

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 72</b>	<b>Roof Accessories</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0067	EA		50" x 74" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	163.59	
07 72 13 00-0068	EA		50" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	513.66	105.56
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	40.81	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	92.18	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	151.27	
07 72 13 00-0069	EA		51" x 99" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	230.32	115.16
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	11.52	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	34.55	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	17.31	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-98.08	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-98.08	
07 72 13 00-0070	EA		51" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	249.50	124.76
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	12.48	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	37.43	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	138.94	
07 72 13 00-0071	EA		62" x 62" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	467.56	95.96
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	37.16	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	83.92	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	13.78	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-78.08	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-78.08	
07 72 13 00-0072	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	500.21	105.56
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	39.47	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	89.49	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	105.33	
07 72 13 00-0073	EA		62" x 86" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	230.32	115.16
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	11.52	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	34.55	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	224.10	
07 72 13 00-0074	EA		62" x 98" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	230.32	115.16
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	11.52	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	34.55	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.51	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-116.18	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-116.18	
07 72 13 00-0075	EA		62" x 122" Outside Frame Dimensions, 14" Height, 18 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	249.50	124.76
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	12.48	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	37.43	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	300.29	
07 72 13 00-0076			14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0002)		
07 72 13 00-0077			9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs (07 72 13 00-0076)		
07 72 13 00-0078	EA		26" x 26" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	299.20	76.78
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	22.24	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	52.16	
07 72 13 00-0079	EA		26" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	153.54	76.78
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	7.68	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	23.03	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	72.83	
07 72 13 00-0080	EA		26" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	360.98	86.36
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	27.46	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	63.56	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	84.04	
07 72 13 00-0081	EA		26" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	394.60	86.36
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	30.82	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	70.28	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	107.57	
07 72 13 00-0082	EA		26" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-58.08	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	65.16	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	71.88	
07 72 13 00-0083	EA		26" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	132.22	
07 72 13 00-0084	EA		38" x 38" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	153.54	76.78
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	7.68	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	23.03	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	5.88	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-33.33	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-33.33	
07 72 13 00-0085	EA		38" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	47.06	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	94.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0086 EA 38" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	107.57	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	123.26	
07 72 13 00-0087 EA 38" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	391.24	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	30.49	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	69.61	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-59.05	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-59.05	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	78.77	
07 72 13 00-0088 EA 38" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-76.19	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-76.19	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	95.24	
07 72 13 00-0089 EA 38" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	211.12	105.56
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	10.56	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	31.67	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-93.32	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-93.32	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-93.32	
07 72 13 00-0090 EA 50" x 50" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	60.51	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	122.13	
07 72 13 00-0091 EA 50" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	141.18	
07 72 13 00-0092 EA 50" x 74" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	163.59	
07 72 13 00-0093 EA 50" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	211.12	105.56
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	10.56	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	31.67	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	151.27	
07 72 13 00-0094 EA 51" x 99" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	230.32	115.16
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	11.52	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	34.55	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	17.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-98.08	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-98.08	
07 72 13 00-0095 EA 51" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	249.50	124.76
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	12.48	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	37.43	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	138.94	
07 72 13 00-0096 EA 62" x 62" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	13.78	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-78.08	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-78.08	
07 72 13 00-0097 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	211.12	105.56
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	10.56	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	31.67	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	105.33	
07 72 13 00-0098 EA 62" x 86" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	230.32	115.16
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	11.52	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	34.55	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	224.10	
07 72 13 00-0099 EA 62" x 98" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	230.32	115.16
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	11.52	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	34.55	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.51	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-116.18	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-116.18	
07 72 13 00-0100 EA 62" x 122" Outside Frame Dimensions, 9" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	249.50	124.76
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	12.48	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	37.43	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	300.29	
<b>07 72 13 00-0101 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs</b>		
<i>(07 72 13 00-0076)</i>		
07 72 13 00-0102 EA 26" x 26" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	153.54	76.78
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	7.68	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	23.03	
07 72 13 00-0103 EA 26" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	153.54	76.78
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	7.68	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	23.03	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	72.83	

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 72</b>	<b>Roof Accessories</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0104 EA 26" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	84.04	
07 72 13 00-0105 EA 26" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	107.57	
07 72 13 00-0106 EA 26" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	445.02	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	35.87	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	80.37	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-58.08	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.16	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	71.88	
07 72 13 00-0107 EA 26" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	532.55	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	43.66	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	96.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	132.22	
07 72 13 00-0108 EA 38" x 38" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	153.54	76.78
For Sloped Roofs Up To 1 In 12 Pitch, Add	7.68	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	23.03	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	5.88	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-33.33	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-33.33	
07 72 13 00-0109 EA 38" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	47.06	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	94.12	
07 72 13 00-0110 EA 38" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	107.57	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	123.26	
07 72 13 00-0111 EA 38" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-59.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-59.05	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	78.77	
07 72 13 00-0112 EA 38" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-76.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-76.19	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	95.24	
07 72 13 00-0113 EA 38" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	583.13	105.56
For Sloped Roofs Up To 1 In 12 Pitch, Add	47.76	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	106.07	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-93.32	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-93.32	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-93.32	
07 72 13 00-0114 EA 50" x 50" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	60.51	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	122.13	
07 72 13 00-0115 EA 50" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	141.18	
07 72 13 00-0116 EA 50" x 74" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	163.59	
07 72 13 00-0117 EA 50" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	211.12	105.56
For Sloped Roofs Up To 1 In 12 Pitch, Add	10.56	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	31.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	151.27	
07 72 13 00-0118 EA 51" x 99" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	230.32	115.16
For Sloped Roofs Up To 1 In 12 Pitch, Add	11.52	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	34.55	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	17.31	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-98.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-98.08	
07 72 13 00-0119 EA 51" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	249.50	124.76
For Sloped Roofs Up To 1 In 12 Pitch, Add	12.48	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	37.43	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	138.94	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72	13 00-0120	EA		62" x 62" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	498.94	95.96
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	40.30	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	90.19	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	13.78	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-78.08	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-78.08	
07 72	13 00-0121	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	211.12	105.56
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	10.56	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	31.67	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	105.33	
07 72	13 00-0122	EA		62" x 86" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	230.32	115.16
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	11.52	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	34.55	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	224.10	
07 72	13 00-0123	EA		62" x 98" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	230.32	115.16
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	11.52	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	34.55	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.51	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-116.18	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-116.18	
07 72	13 00-0124	EA		62" x 122" Outside Frame Dimensions, 12" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	657.36	124.76
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	53.26	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	119.00	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	300.29	
07 72	13 00-0125			<b>14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curbs</b> (07 72 13 00-0076)		
07 72	13 00-0126	EA		26" x 26" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	153.54	76.78
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	7.68	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	23.03	
07 72	13 00-0127	EA		26" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	335.06	76.78
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	25.83	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	59.34	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	72.83	
07 72	13 00-0128	EA		26" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	387.88	86.36
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	30.15	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	68.94	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	84.04	
07 72	13 00-0129	EA		26" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	107.57	
07 72	13 00-0130	EA		26" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-58.08	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	65.16	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	71.88	
07 72	13 00-0131	EA		26" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	132.22	
07 72	13 00-0132	EA		38" x 38" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	153.54	76.78
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	7.68	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	23.03	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	5.88	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-33.33	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-33.33	
07 72	13 00-0133	EA		38" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	406.92	86.36
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	32.06	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	72.75	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	47.06	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	94.12	
07 72	13 00-0134	EA		38" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	107.57	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	123.26	
07 72	13 00-0135	EA		38" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	431.58	86.36
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	34.52	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	77.68	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-59.05	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-59.05	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	78.77	
07 72	13 00-0136	EA		38" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	548.24	95.96
				<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	45.23	
				<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	100.05	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-76.19	
				<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-76.19	
				<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	95.24	

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 72</b>	<b>Roof Accessories</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0137	EA		38" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	211.12	105.56
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	10.56	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	31.67	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-93.32	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-93.32	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-93.32	
07 72 13 00-0138	EA		50" x 50" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	172.74	86.36
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	60.51	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	122.13	
07 72 13 00-0139	EA		50" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	141.18	
07 72 13 00-0140	EA		50" x 74" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	163.59	
07 72 13 00-0141	EA		50" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	211.12	105.56
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	10.56	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	31.67	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	151.27	
07 72 13 00-0142	EA		51" x 99" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	607.93	115.16
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	49.28	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	110.07	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	17.31	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-98.08	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-98.08	
07 72 13 00-0143	EA		51" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	249.50	124.76
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	12.48	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	37.43	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	138.94	
07 72 13 00-0144	EA		62" x 62" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	191.92	95.96
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	13.78	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-78.08	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-78.08	
07 72 13 00-0145	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	211.12	105.56
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	10.56	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	31.67	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	105.33	
07 72 13 00-0146	EA		62" x 86" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	230.32	115.16
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	11.52	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	34.55	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	224.10	
07 72 13 00-0147	EA		62" x 98" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	624.74	115.16
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	50.96	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	113.43	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.51	
			<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-116.18	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-116.18	
07 72 13 00-0148	EA		62" x 122" Outside Frame Dimensions, 14" Height, 14 Gauge, Insulated Galvanized Steel, Prefabricated Roof Curb.....	249.50	124.76
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	12.48	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	37.43	
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	300.29	
07 72 13 00-0149			<b>Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs</b> <small>(07 72 13 00-0001)</small>		
			Note: Includes 1" rigid foam insulation, mill finish galvanized steel exterior wall construction, painted galvanized steel interior wall construction and installation clips.		
07 72 13 00-0150			<b>6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs</b> <small>(07 72 13 00-0149)</small>		
07 72 13 00-0151	EA		14-1/2" To 23" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	153.54	76.78
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	7.68	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	23.03	
07 72 13 00-0152	EA		23-1/2" To 32" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	153.54	76.78
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	7.68	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	23.03	
07 72 13 00-0153	EA		32-1/2" To 41" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	172.74	86.36
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
07 72 13 00-0154	EA		41" To 49-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb.....	602.76	86.36
			<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	51.64	
			<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	111.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0155 EA 50" To 58-1/2" Square Outside Dimensions, 6" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	191.92 9.60 28.79	95.96
<b>07 72 13 00-0156 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs (07 72 13 00-0149)</b>		
07 72 13 00-0157 EA 14-1/2" To 23" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	153.54 7.68 23.03	76.78
07 72 13 00-0158 EA 23-1/2" To 32" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	627.13 55.04 117.75	76.78
07 72 13 00-0159 EA 32-1/2" To 41" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	172.74 8.64 25.91	86.36
07 72 13 00-0160 EA 41" To 49-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	697.53 61.12 130.87	86.36
07 72 13 00-0161 EA 50" To 58-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	191.92 9.60 28.79	95.96
07 72 13 00-0162 EA 64" To 72-1/2" Square Outside Dimensions, 12" Height, 18 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	211.12 10.56 31.67	105.56
<b>07 72 13 00-0163 18" To 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curbs (07 72 13 00-0149)</b>		
07 72 13 00-0164 EA 17-1/2" To 22" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	153.54 7.68 23.03	76.78
07 72 13 00-0165 EA 24" To 29" Square Outside Dimensions, 24" Height, 16 Gauge, Ventilated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	153.54 7.68 23.03	76.78
07 72 13 00-0166 EA 31" To 46" Square Outside Dimensions, 18" Height, 16 Gauge, Insulated Galvanized Steel, Adjustable Width Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	1,027.54 94.12 196.87	86.36
07 72 13 00-0167 <b>Wood, Prefabricated Roof Curbs (07 72 13)</b> Note: Includes Douglas fir construction, galvanized steel corner straps and installation clips. Includes 3/16" wire mesh, 6" x 6" grids, safety security guard with installation clips.		
07 72 13 00-0168 <b>Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0167)</b>		
07 72 13 00-0169 <b>2 x 6 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)</b>		
07 72 13 00-0170 EA 26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	153.54 7.68 23.03	76.78
07 72 13 00-0171 EA 26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	172.74 8.64 25.91 84.04	86.36
07 72 13 00-0172 EA 26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	172.74 8.64 25.91 -58.08 65.16 71.88	86.36
07 72 13 00-0173 EA 38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	296.00 20.96 50.56 107.57 123.26	86.36
07 72 13 00-0174 EA 38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	303.84 21.75 52.13 -59.05 -59.05 78.77	86.36

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 72</b>	<b>Roof Accessories</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0175 EA 38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-76.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-76.19	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	95.24	
07 72 13 00-0176 EA 50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	60.51	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	122.13	
07 72 13 00-0177 EA 50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	163.59	
07 72 13 00-0178 EA 51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....	390.55	115.16
For Sloped Roofs Up To 1 In 12 Pitch, Add	27.54	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	66.59	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	17.31	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-98.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-98.08	
07 72 13 00-0179 EA 62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	13.78	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-78.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-78.08	
07 72 13 00-0180 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....	211.12	105.56
For Sloped Roofs Up To 1 In 12 Pitch, Add	10.56	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	31.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	105.33	
07 72 13 00-0181 EA 62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed, Prefabricated Roof Curb .....	230.32	115.16
For Sloped Roofs Up To 1 In 12 Pitch, Add	11.52	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	34.55	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	20.51	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-116.18	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-116.18	
<b>07 72 13 00-0182 2 x 8 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)</b>		
07 72 13 00-0183 EA 26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....	251.02	76.78
For Sloped Roofs Up To 1 In 12 Pitch, Add	17.43	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	42.53	
07 72 13 00-0184 EA 26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	84.04	
07 72 13 00-0185 EA 26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-58.08	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.16	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	71.88	
07 72 13 00-0186 EA 38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	107.57	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	123.26	
07 72 13 00-0187 EA 38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....	320.65	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	23.43	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	55.49	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-59.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-59.05	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	78.77	
07 72 13 00-0188 EA 38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-76.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-76.19	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	95.24	
07 72 13 00-0189 EA 50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	60.51	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	122.13	
07 72 13 00-0190 EA 50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....	367.84	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	27.19	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	63.97	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	163.59	
07 72 13 00-0191 EA 51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....	230.32	115.16
For Sloped Roofs Up To 1 In 12 Pitch, Add	11.52	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	34.55	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	17.31	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-98.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-98.08	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0192 EA 62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	13.78	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-78.08	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-78.08	
07 72 13 00-0193 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....	211.12	105.56
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	10.56	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	31.67	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	105.33	
07 72 13 00-0194 EA 62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed, Prefabricated Roof Curb .....	230.32	115.16
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	11.52	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	34.55	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.51	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-116.18	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-116.18	
<b>07 72 13 00-0195 2 x 10 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)</b>		
07 72 13 00-0196 EA 26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....	153.54	76.78
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	7.68	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	23.03	
07 72 13 00-0197 EA 26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	84.04	
07 72 13 00-0198 EA 26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....	322.89	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	23.65	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	55.94	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-58.08	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	65.16	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	71.88	
07 72 13 00-0199 EA 38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	107.57	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	123.26	
07 72 13 00-0200 EA 38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-59.05	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-59.05	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	78.77	
07 72 13 00-0201 EA 38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-76.19	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-76.19	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	95.24	
07 72 13 00-0202 EA 50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....	321.77	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	23.54	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	55.72	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	60.51	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	122.13	
07 72 13 00-0203 EA 50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	163.59	
07 72 13 00-0204 EA 51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....	230.32	115.16
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	11.52	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	34.55	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	17.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-98.08	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-98.08	
07 72 13 00-0205 EA 62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....	352.15	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	25.62	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	60.83	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	13.78	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-78.08	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-78.08	
07 72 13 00-0206 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....	388.16	105.56
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	28.26	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	67.08	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	105.33	
07 72 13 00-0207 EA 62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed, Prefabricated Roof Curb .....	439.85	115.16
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	32.47	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	76.45	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	20.51	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-116.18	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-116.18	
<b>07 72 13 00-0208 2 x 12 Wood Framed, Prefabricated Roof Curbs (07 72 13 00-0168)</b>		
07 72 13 00-0209 EA 26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb .....	153.54	76.78
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	7.68	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	23.03	

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 72</b>	<b>Roof Accessories</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0210	EA		26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	172.74 8.64 25.91	86.36
			<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	84.04	
07 72 13 00-0211	EA		26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	332.97 24.66 57.96 -58.08 65.16 71.88	86.36
07 72 13 00-0212	EA		38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	341.94 25.56 59.75 -59.05 -59.05 78.77	86.36
07 72 13 00-0213	EA		38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	382.40 28.64 66.88 -76.19 -76.19 95.24	95.96
07 72 13 00-0214	EA		50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	331.85 24.55 57.73 60.51 122.13	86.36
07 72 13 00-0215	EA		50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	389.13 29.32 68.23 163.59	95.96
07 72 13 00-0216	EA		51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	230.32 11.52 34.55 17.31 -98.08 -98.08	115.16
07 72 13 00-0217	EA		62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	211.12 10.56 31.67 105.33	105.56
07 72 13 00-0218			Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0167)</small>		
07 72 13 00-0219			2 x 6 Wood Framed With Liner, Prefabricated Roof Curbs <small>(07 72 13 00-0218)</small>		
07 72 13 00-0220	EA		26" x 26" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	253.26 17.65 42.98	76.78
07 72 13 00-0221	EA		26" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	172.74 8.64 25.91 84.04	86.36
07 72 13 00-0222	EA		26" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	313.92 22.76 54.15 -58.08 65.16 71.88	86.36
07 72 13 00-0223	EA		38" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	172.74 8.64 25.91 107.57 123.26	86.36
07 72 13 00-0224	EA		38" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	172.74 8.64 25.91 -59.05 -59.05 78.77	86.36
07 72 13 00-0225	EA		38" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	191.92 9.60 28.79 -76.19 -76.19 95.24	95.96
07 72 13 00-0226	EA		50" x 50" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	172.74 8.64 25.91 60.51 122.13	86.36
07 72 13 00-0227	EA		50" x 74" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb ..... <i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i> <i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i> <i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	191.92 9.60 28.79 163.59	95.96



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0228 EA 51" x 99" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....	402.88	115.16
For Sloped Roofs Up To 1 In 12 Pitch, Add	28.77	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	69.06	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	17.31	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-98.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-98.08	
07 72 13 00-0229 EA 62" x 62" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	13.78	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-78.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-78.08	
07 72 13 00-0230 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....	376.95	105.56
For Sloped Roofs Up To 1 In 12 Pitch, Add	27.14	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	64.83	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	105.33	
07 72 13 00-0231 EA 62" x 98" Outside Frame Dimensions, 2 x 6 Wood Framed With Liner, Prefabricated Roof Curb .....	428.65	115.16
For Sloped Roofs Up To 1 In 12 Pitch, Add	31.35	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	74.21	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	20.51	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-116.18	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-116.18	
<b>07 72 13 00-0232 2 x 8 Wood Framed With Liner, Prefabricated Roof Curbs (07 72 13 00-0218)</b>		
07 72 13 00-0233 EA 26" x 26" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....	153.54	76.78
For Sloped Roofs Up To 1 In 12 Pitch, Add	7.68	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	23.03	
07 72 13 00-0234 EA 26" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	84.04	
07 72 13 00-0235 EA 26" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-58.08	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.16	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	71.88	
07 72 13 00-0236 EA 38" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	107.57	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	123.26	
07 72 13 00-0237 EA 38" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-59.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-59.05	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	78.77	
07 72 13 00-0238 EA 38" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-76.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-76.19	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	95.24	
07 72 13 00-0239 EA 50" x 50" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	60.51	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	122.13	
07 72 13 00-0240 EA 50" x 74" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....	383.53	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	28.76	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	67.11	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	163.59	
07 72 13 00-0241 EA 51" x 99" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....	424.17	115.16
For Sloped Roofs Up To 1 In 12 Pitch, Add	30.90	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	73.32	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	17.31	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-98.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-98.08	
07 72 13 00-0242 EA 62" x 62" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	13.78	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-78.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-78.08	
07 72 13 00-0243 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....	393.76	105.56
For Sloped Roofs Up To 1 In 12 Pitch, Add	28.82	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	68.20	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	105.33	
07 72 13 00-0244 EA 62" x 98" Outside Frame Dimensions, 2 x 8 Wood Framed With Liner, Prefabricated Roof Curb .....	447.70	115.16
For Sloped Roofs Up To 1 In 12 Pitch, Add	33.25	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	78.02	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	20.51	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-116.18	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-116.18	

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 72</b>	<b>Roof Accessories</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>07 72 13 00-0245</b> <b>2 x 10 Wood Framed With Liner, Prefabricated Roof Curbs</b> <small>(07 72 13 00-0218)</small>		
07 72 13 00-0246     EA    26" x 26" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....	153.54	76.78
For Sloped Roofs Up To 1 In 12 Pitch, Add	7.68	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	23.03	
07 72 13 00-0247     EA    26" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....	296.00	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	20.96	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	50.56	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	84.04	
07 72 13 00-0248     EA    26" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....	340.82	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	25.45	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	59.53	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-58.08	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.16	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	71.88	
07 72 13 00-0249     EA    38" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....	329.61	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	24.32	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	57.29	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	107.57	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	123.26	
07 72 13 00-0250     EA    38" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....	347.54	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	26.12	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	60.87	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-59.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-59.05	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	78.77	
07 72 13 00-0251     EA    38" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-76.19	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-76.19	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	95.24	
07 72 13 00-0252     EA    50" x 50" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	60.51	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	122.13	
07 72 13 00-0253     EA    50" x 74" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	163.59	
07 72 13 00-0254     EA    51" x 99" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....	230.32	115.16
For Sloped Roofs Up To 1 In 12 Pitch, Add	11.52	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	34.55	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	17.31	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-98.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-98.08	
07 72 13 00-0255     EA    62" x 62" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....	191.92	95.96
For Sloped Roofs Up To 1 In 12 Pitch, Add	9.60	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	28.79	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	13.78	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-78.08	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-78.08	
07 72 13 00-0256     EA    62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....	211.12	105.56
For Sloped Roofs Up To 1 In 12 Pitch, Add	10.56	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	31.67	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	105.33	
07 72 13 00-0257     EA    62" x 98" Outside Frame Dimensions, 2 x 10 Wood Framed With Liner, Prefabricated Roof Curb .....	230.32	115.16
For Sloped Roofs Up To 1 In 12 Pitch, Add	11.52	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	34.55	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	20.51	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-116.18	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	-116.18	
<b>07 72 13 00-0258</b> <b>2 x 12 Wood Framed With Liner, Prefabricated Roof Curbs</b> <small>(07 72 13 00-0218)</small>		
07 72 13 00-0259     EA    26" x 26" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....	153.54	76.78
For Sloped Roofs Up To 1 In 12 Pitch, Add	7.68	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	23.03	
07 72 13 00-0260     EA    26" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....	172.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	8.64	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	25.91	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	84.04	
07 72 13 00-0261     EA    26" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....	350.90	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	26.45	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	61.54	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-58.08	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	65.16	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	71.88	
07 72 13 00-0262     EA    38" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....	358.74	86.36
For Sloped Roofs Up To 1 In 12 Pitch, Add	27.24	
For Sloped Roofs >1 In 12 To 3 In 12 Pitch, Add	63.11	
For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add	-59.05	
For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add	-59.05	
For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add	78.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 13 00-0263 EA 38" x 98" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	-76.19	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-76.19	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	95.24	
07 72 13 00-0264 EA 50" x 50" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....	172.74	86.36
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	8.64	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	25.91	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	60.51	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	122.13	
07 72 13 00-0265 EA 50" x 74" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....	191.92	95.96
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	9.60	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	28.79	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	163.59	
07 72 13 00-0266 EA 51" x 99" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....	482.43	115.16
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	36.73	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	84.97	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	17.31	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Z Channel Attached, Safety Security Guard, Add</i>	-98.08	
<i>For 1/2" Diameter, 8" On Center, Hot Rolled Steel, Burglar Bars, Add</i>	-98.08	
07 72 13 00-0267 EA 62-3/8" x 74-3/8" Outside Frame Dimensions, 2 x 12 Wood Framed With Liner, Prefabricated Roof Curb .....	447.55	105.56
<i>For Sloped Roofs Up To 1 In 12 Pitch, Add</i>	34.20	
<i>For Sloped Roofs &gt;1 In 12 To 3 In 12 Pitch, Add</i>	78.95	
<i>For 3/16" Wire Diameter, 4" x 4" Grids, Clip Attached, Safety Security Guard, Add</i>	105.33	

**07 72 23 Relief Vents** (07 72)

**07 72 23 00-0001 Wind Driven Turbine Ventilators** (07 72 23)  
 Note: Excludes curb or flange base.

**07 72 23 00-0002 Galvanized Steel, Wind Driven Turbine Ventilators** (07 72 23 00-0001)

07 72 23 00-0003 EA 6" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....	105.88	33.70
<i>For Curb Or Flange Base, Add</i>	135.07	
07 72 23 00-0004 EA 9" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....	125.25	37.31
<i>For Curb Or Flange Base, Add</i>	149.59	
07 72 23 00-0005 EA 12" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....	138.53	44.53
<i>For Curb Or Flange Base, Add</i>	170.88	
07 72 23 00-0006 EA 15" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....	238.72	49.35
<i>For Curb Or Flange Base, Add</i>	243.61	
07 72 23 00-0007 EA 18" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....	319.48	55.36
<i>For Curb Or Flange Base, Add</i>	266.23	
07 72 23 00-0008 EA 21" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....	380.19	60.18
<i>For Curb Or Flange Base, Add</i>	288.26	
07 72 23 00-0009 EA 24" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....	479.12	67.40
<i>For Curb Or Flange Base, Add</i>	345.21	
07 72 23 00-0010 EA 36" Neck Diameter, 26 Gauge, Galvanized Steel, Outside Braced, Wind Driven Turbine Ventilator .....	776.17	90.27
<i>For Curb Or Flange Base, Add</i>	538.99	

**07 72 23 00-0011 Mill Finish Aluminum, Wind Driven Turbine Ventilators** (07 72 23 00-0001)

07 72 23 00-0012 EA 6" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator .....	110.39	33.70
<i>For Curb Or Flange Base, Add</i>	145.04	
07 72 23 00-0013 EA 9" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator .....	135.06	37.31
<i>For Curb Or Flange Base, Add</i>	160.62	
07 72 23 00-0014 EA 12" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator .....	153.16	44.53
<i>For Curb Or Flange Base, Add</i>	182.12	
07 72 23 00-0015 EA 15" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator .....	253.24	49.35
<i>For Curb Or Flange Base, Add</i>	279.33	
07 72 23 00-0016 EA 18" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator .....	321.46	55.36
<i>For Curb Or Flange Base, Add</i>	301.35	
07 72 23 00-0017 EA 21" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator .....	400.09	60.18
<i>For Curb Or Flange Base, Add</i>	336.32	
07 72 23 00-0018 EA 24" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator .....	531.91	67.40
<i>For Curb Or Flange Base, Add</i>	400.68	
07 72 23 00-0019 EA 36" Neck Diameter, 0.025", Mill Finish Aluminum, Outside Braced, Wind Driven Turbine Ventilator .....	785.89	90.27
<i>For Curb Or Flange Base, Add</i>	589.64	

**07 72 23 00-0020 Stationary Siphon Ventilators** (07 72 23)

Note: Excludes curb or flange base.

**07 72 23 00-0021 Galvanized Steel, Stationary Siphon Ventilators** (07 72 23 00-0020)

07 72 23 00-0022 EA 6" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator .....	93.21	33.70
<i>For Curb Or Flange Base, Add</i>	135.07	
07 72 23 00-0023 EA 9" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator .....	118.00	37.31
<i>For Curb Or Flange Base, Add</i>	149.59	
07 72 23 00-0024 EA 12" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator .....	132.59	44.53
<i>For Curb Or Flange Base, Add</i>	170.88	
07 72 23 00-0025 EA 15" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator .....	206.19	49.35
<i>For Curb Or Flange Base, Add</i>	243.61	
07 72 23 00-0026 EA 18" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator .....	237.16	55.36
<i>For Curb Or Flange Base, Add</i>	266.23	

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 72</b>	<b>Roof Accessories</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 23 00-0027 EA 21" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	322.01	60.18
For Curb Or Flange Base, Add	288.26	
07 72 23 00-0028 EA 24" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	411.70	67.40
For Curb Or Flange Base, Add	345.21	
07 72 23 00-0029 EA 36" Neck Diameter, 26 Gauge, Galvanized Steel, Stationary Siphon Ventilator.....	591.20	90.27
For Curb Or Flange Base, Add	538.99	
<b>07 72 23 00-0030 Mill Finish Aluminum, Stationary Siphon Ventilators (07 72 23 00-0020)</b>		
07 72 23 00-0031 EA 6" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	106.94	33.70
For Curb Or Flange Base, Add	145.04	
07 72 23 00-0032 EA 9" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	137.12	37.31
For Curb Or Flange Base, Add	160.62	
07 72 23 00-0033 EA 12" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	154.90	44.53
For Curb Or Flange Base, Add	182.12	
07 72 23 00-0034 EA 15" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	236.97	49.35
For Curb Or Flange Base, Add	279.33	
07 72 23 00-0035 EA 18" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	293.80	55.36
For Curb Or Flange Base, Add	301.35	
07 72 23 00-0036 EA 21" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	355.14	60.18
For Curb Or Flange Base, Add	336.32	
07 72 23 00-0037 EA 24" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	497.35	67.40
For Curb Or Flange Base, Add	400.68	
07 72 23 00-0038 EA 36" Neck Diameter, 0.025", Mill Finish Aluminum, Stationary Siphon Ventilator.....	741.72	90.27
For Curb Or Flange Base, Add	589.64	
<b>07 72 23 00-0039 Spun Aluminum, Stationary Mushroom Gravity Ventilators (07 72 23)</b>		
Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0040 EA 8" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	234.30	54.16
For Backdraft Damper, Add	93.87	
For Curb Base, Add	167.08	
07 72 23 00-0041 EA 10" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	281.88	60.18
For Backdraft Damper, Add	102.71	
For Curb Base, Add	183.10	
07 72 23 00-0042 EA 12" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	323.01	72.21
For Backdraft Damper, Add	140.26	
For Curb Base, Add	230.10	
07 72 23 00-0043 EA 16" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	385.24	79.44
For Backdraft Damper, Add	160.14	
For Curb Base, Add	264.49	
07 72 23 00-0044 EA 24" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	921.30	108.33
For Backdraft Damper, Add	201.00	
For Curb Base, Add	350.12	
07 72 23 00-0045 EA 30" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	1,118.04	125.18
For Backdraft Damper, Add	237.44	
For Curb Base, Add	416.37	
07 72 23 00-0046 EA 36" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	1,497.51	144.44
For Backdraft Damper, Add	237.44	
For Curb Base, Add	440.33	
07 72 23 00-0047 EA 42" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	2,058.80	156.48
For Backdraft Damper, Add	248.49	
For Curb Base, Add	459.71	
07 72 23 00-0048 EA 48" Orifice Diameter, Spun Aluminum, Stationary Mushroom Gravity Ventilator.....	2,906.15	168.50
For Backdraft Damper, Add	276.10	
For Curb Base, Add	513.34	
<b>07 72 23 00-0049 Galvanized Steel, Stationary Gooseneck Ventilators (07 72 23)</b>		
Note: Includes flange base and bird screen. Excludes curb.		
07 72 23 00-0050 EA 8" x 8", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	362.64	60.18
07 72 23 00-0051 EA 12" x 12", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	435.79	79.44
07 72 23 00-0052 EA 16" x 16", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	620.33	108.33
07 72 23 00-0053 EA 24" x 24", 26 Gauge, Galvanized Steel, Stationary Gooseneck Ventilator.....	912.13	125.18
<b>07 72 26 Ridge Vents (07 72)</b>		
<b>07 72 26 00-0001 Aluminum Ridge Vents (07 72 26)</b>		
07 72 26 00-0002 LF Aluminum Ridge Vent Strips.....	11.44	3.50
07 72 26 00-0003 EA Aluminum Ridge Univent Connectors.....	52.15	21.67
07 72 26 00-0004 EA Aluminum Ridge Univent End Cap.....	49.92	21.67
<b>07 72 26 00-0005 Galvanized Ridge Vents (07 72 26)</b>		
07 72 26 00-0006 LF Galvanized Sheet Metal Ridge Vent Strips.....	11.55	3.73
<b>07 72 29 Rafter Vent (07 72)</b>		
<b>07 72 29 00-0001 Rafter Vent (07 72 29)</b>		
Note: Built-in baffle is designed to help keep air flowing freely from soffits to ridge vents.		
07 72 29 00-0002 EA 22" x 4" Rafter Vent.....	8.48	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				07 72 29 00-0003 EA 14" x 4' Rafter Vent.....	7.91	
<b>07 72 33</b>				<b>Roof Hatches</b> (07 72)		
				Note: Includes curb with integral insulation, lockable hatch and gaskets.		
				<b>07 72 33 00-0001 Galvanized Steel Cover And Curb</b> (07 72 33)		
				07 72 33 00-0002 EA 2'-6" x 3'-0" Galvanized Steel Roof Hatch (Bilco S-20).....	1,015.65	146.69
				07 72 33 00-0003 EA 2'-6" x 4'-6" Galvanized Steel Roof Hatch (Bilco NB-20).....	1,462.74	162.98
				07 72 33 00-0004 EA 2'-6" x 8'-0" Galvanized Steel Roof Hatch (Bilco L-20).....	2,548.26	222.27
				07 72 33 00-0005 EA 3'-0" x 3'-0" Galvanized Steel Roof Hatch (Bilco E-20).....	1,436.74	162.98
				07 72 33 00-0006 EA 4'-0" x 4'-0" Galvanized Steel Roof Hatch.....	1,619.74	181.12
				07 72 33 00-0007 EA 3'-0" x 8'-0" Galvanized Steel Roof Hatch.....	2,632.02	247.02
				<b>07 72 33 00-0008 Aluminum Cover And Curb</b> (07 72 33)		
				07 72 33 00-0009 EA 2'-6" x 3'-0" Aluminum Roof Hatch (Bilco S-50).....	1,090.55	146.69
				07 72 33 00-0010 EA 2'-6" x 4'-6" Aluminum Roof Hatch (Bilco NB-50).....	1,410.19	162.98
				07 72 33 00-0011 EA 2'-6" x 8'-0" Aluminum Roof Hatch (Bilco L-50).....	2,543.76	222.27
				07 72 33 00-0012 EA 3'-0" x 3'-0" Aluminum Roof Hatch (Bilco E-50).....	1,377.60	162.98
				07 72 33 00-0013 EA 4'-0" x 4'-0" Aluminum Roof Hatch (Bilco F-50).....	2,428.90	181.12
				07 72 33 00-0014 EA 3'-0" x 8'-0" Aluminum Roof Hatch.....	2,679.39	247.02
				07 72 33 00-0015 EA 3'-0" x 2'-6" Aluminum Roof Scuttle With Skylight (Bilco GS-50).....	1,538.75	162.98
				<b>07 72 33 00-0016 Steel, Plain, Primed</b> (07 72 33)		
				07 72 33 00-0017 EA 2'-6" x 3'-0" Plain Steel Roof Hatch Primed (Bilco S-20).....	977.13	146.69
				07 72 33 00-0018 EA 2'-6" x 4'-6" Plain Steel Roof Hatch Primed (Bilco NB-20).....	1,302.75	162.98
				07 72 33 00-0019 EA 2'-6" x 8'-0" Plain Steel Roof Hatch Primed (Bilco L-20).....	1,784.16	222.27
				07 72 33 00-0020 EA 3'-0" x 3'-0" Plain Steel Roof Hatch Primed (Bilco E-20).....	1,209.29	162.98
				07 72 33 00-0021 EA 4'-0" x 4'-0" Plain Steel Roof Hatch Primed.....	1,473.00	181.12
				07 72 33 00-0022 EA 3'-0" x 8'-0" Plain Steel Roof Hatch Primed.....	2,001.04	247.02
				<b>07 72 33 00-0023 Stainless Steel</b> (07 72 33)		
				07 72 33 00-0024 EA 2'-6" x 3'-0" Stainless Steel Roof Hatch (Bilco S-90).....	1,321.23	146.69
				07 72 33 00-0025 EA 2'-6" x 4'-6" Stainless Steel Roof Hatch (Bilco NB-90).....	2,378.82	162.98
				07 72 33 00-0026 EA 2'-6" x 8'-0" Stainless Steel Roof Hatch (Bilco L-90).....	3,548.21	222.27
				07 72 33 00-0027 EA 3'-0" x 3'-0" Stainless Steel Roof Hatch (Bilco E-90).....	1,935.13	162.98
				07 72 33 00-0028 EA 4'-0" x 4'-0" Stainless Steel Roof Hatch.....	3,896.65	181.12
				07 72 33 00-0029 EA 3'-0" x 8'-0" Stainless Steel Roof Hatch.....	4,414.20	247.02
				<b>07 72 33 00-0030 Remove And Reinstall Roof Hatch</b> (07 72 33)		
				Note: Includes storage, cleaning and supply materials.		
				07 72 33 00-0031 EA Removal And Reinstallation Of Roof Hatch (All Types).....	451.18	
				<b>07 72 33 00-0032 Aluminum Cover And Galvanized Steel Curb</b> (07 72 33)		
				07 72 33 00-0033 EA Aluminum Cover, Galvanized Steel Curb 3'-0" x 2'-6" Roof (Bilco S-40).....	1,057.59	162.98
				07 72 33 00-0034 EA Aluminum Cover, Galvanized Steel Curb 2'-6" x 4'-6" Roof (Bilco NB-40).....	1,377.23	181.12
				07 72 33 00-0035 EA Aluminum Cover, Galvanized Steel Curb 2'-6" x 8'-0" Roof (Bilco L-40).....	2,458.08	246.92
				07 72 33 00-0036 EA Aluminum Cover, Galvanized Steel Curb 3'-0" x 3'-0" Roof (Bilco E-40).....	1,351.23	168.07
				07 72 33 00-0037 EA Aluminum Cover, Galvanized Steel Curb 4'-0" x 4'-0" Roof (Bilco F-40).....	2,356.40	186.21
				<b>07 72 33 00-0038 Roof Hatch Accessories</b> (07 72 33)		
				07 72 33 00-0039 EA Roof Hatch Ladderup Safety Post (Bilco LU-1).....	516.56	76.40
				<b>07 72 33 00-0040 Roof Hatch Safety Railing</b> (07 72 33)		
				Note: Included mounting bracket to attach to roof hatch		
				07 72 33 00-0041 EA 24" x 24" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-24x24).....	1,206.45	
				07 72 33 00-0042 EA 24" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-24x36).....	1,254.82	
				07 72 33 00-0043 EA 30" x 30" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-30x30).....	1,281.82	
				07 72 33 00-0044 EA 30" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-30x36).....	1,387.20	
				07 72 33 00-0045 EA 36" x 36" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-36x36).....	1,510.67	
				07 72 33 00-0046 EA 48" x 48" Painted Steel, Roof Hatch Safety Railing With Self Closing Gate (Acudor RHSR-48x48).....	1,888.32	
<b>07 72 36</b>				<b>Smoke Vents</b> (07 72)		
				<b>07 72 36 00-0001 Fire Vent</b> (07 72 36)		
				<b>07 72 36 00-0002 Galvanized Steel Covers And Curb</b> (07 72 36 00-0001)		
				07 72 36 00-0003 EA 4'-0" x 4'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4848).....	2,492.88	135.89
				07 72 36 00-0004 EA 4'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4872).....	2,877.44	186.83
				07 72 36 00-0005 EA 4'-0" x 7'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4890).....	3,277.08	203.84
				07 72 36 00-0006 EA 4'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-4896).....	3,343.73	214.02
				07 72 36 00-0007 EA 5'-0" x 5'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6060).....	3,860.60	186.83
				07 72 36 00-0008 EA 5'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6072).....	4,106.17	203.84

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 72</b>	<b>Roof Accessories</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 36 00-0009	EA		5'-0" x 7'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6084).....	4,337.06	220.85
07 72 36 00-0010	EA		5'-0" x 8'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6096).....	4,934.80	237.86
07 72 36 00-0011	EA		5'-0" x 10'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-60120).....	6,112.19	254.76
07 72 36 00-0012	EA		5'-6" x 5'-6" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-6666).....	4,109.62	220.85
07 72 36 00-0013	EA		5'-6" x 12'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-66114).....	8,588.22	271.77
07 72 36 00-0014	EA		6'-0" x 6'-0" Galvanized Steel Covers And Curb, Smoke And Fire Vent (Bilco DSH-7272).....	4,747.07	288.78
<b>07 72 36 00-0015</b>			<b>Aluminum Covers And Galvanized Steel Curb (07 72 36 00-0001)</b>		
07 72 36 00-0016	EA		4'-0" x 4'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4848A) .....	2,339.29	135.89
07 72 36 00-0017	EA		4'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4872A) .....	2,685.93	186.83
07 72 36 00-0018	EA		4'-0" x 7'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4890A) .....	3,021.17	203.84
07 72 36 00-0019	EA		4'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-4896A) .....	3,128.74	214.02
07 72 36 00-0020	EA		5'-0" x 5'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6060A) .....	3,035.26	186.83
07 72 36 00-0021	EA		5'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6072A) .....	3,871.44	203.84
07 72 36 00-0022	EA		5'-0" x 7'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6084A) .....	4,140.77	220.85
07 72 36 00-0023	EA		5'-0" x 8'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6096A) .....	4,034.40	237.86
07 72 36 00-0024	EA		5'-0" x 10'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-60120A) .....	5,654.95	254.76
07 72 36 00-0025	EA		5'-6" x 5'-6" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-6666A) .....	3,910.08	220.85
07 72 36 00-0026	EA		5'-6" x 12'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-66144A) .....	7,407.31	271.77
07 72 36 00-0027	EA		6'-0" x 6'-0" Aluminum Covers And Galvanized Steel Curb, Smoke And Fire Vent (Bilco DSH-7272A) .....	3,847.15	288.78
<b>07 72 36 00-0028</b>			<b>Aluminum Covers And Curb (07 72 36 00-0001)</b>		
07 72 36 00-0029	EA		4'-0" x 4'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4848B) .....	2,550.21	135.89
07 72 36 00-0030	EA		4'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4872B) .....	3,035.26	186.83
07 72 36 00-0031	EA		4'-0" x 7'-6" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4890B) .....	3,330.96	203.84
07 72 36 00-0032	EA		4'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-4896B) .....	3,524.21	214.02
07 72 36 00-0033	EA		5'-0" x 5'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6060B) .....	3,193.45	186.83
07 72 36 00-0034	EA		5'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6072B) .....	4,036.22	203.84
07 72 36 00-0035	EA		5'-0" x 7'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6084B) .....	4,285.78	220.85
07 72 36 00-0036	EA		5'-0" x 8'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6096B) .....	4,429.87	237.86
07 72 36 00-0037	EA		5'-0" x 10'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-60120B) .....	5,371.53	254.76
07 72 36 00-0038	EA		5'-6" x 5'-6" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-6666B) .....	4,094.64	220.85
07 72 36 00-0039	EA		5'-6" x 12'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-66114B) .....	8,086.21	271.77
07 72 36 00-0040	EA		6'-0" x 6'-0" Aluminum Covers And Curb, Smoke And Fire Vent (Bilco DSH-7272B) .....	4,242.62	288.78
<b>07 72 36 00-0041</b>			<b>Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb (07 72 36)</b>		
07 72 36 00-0042	EA		4'-0" x 4'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4848B).....	2,523.84	135.48
07 72 36 00-0043	EA		4'-0" x 6'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4872B).....	3,200.03	186.83
07 72 36 00-0044	EA		4'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV4896B).....	3,385.79	214.02
07 72 36 00-0045	EA		5'-0" x 5'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV6060B).....	3,628.47	186.83
07 72 36 00-0046	EA		5'-0" x 8'-0" Polycarbonate Translucent Cover With Aluminum Frame And Aluminum Curb, Smoke And Fire Vent (Bilco LV6096B).....	3,836.68	237.86
<b>07 72 46</b>			<b>Roof Walkways (07 72)</b>		
<b>07 72 46 00-0001</b>			<b>Recycled Rubber Walkway Pads (07 72 46)</b>		
07 72 46 00-0002	SF		3/8" Thick, Button Surface, Recycled Rubber Walkway Pad .....	7.77	2.11
			<i>For Diamond Surface, Add</i> .....	0.59	
07 72 46 00-0003	SF		1/2" Thick, Button Surface, Recycled Rubber Walkway Pad .....	8.61	2.54
			<i>For Diamond Surface, Add</i> .....	0.68	
07 72 46 00-0004	SF		3/4" Thick, Button Surface, Recycled Rubber Walkway Pad .....	9.50	2.54
			<i>For Diamond Surface, Add</i> .....	0.77	
<b>07 72 53</b>			<b>Snow Guards (07 72)</b>		
<b>07 72 53 00-0001</b>			<b>Snow Guards For Shingle And Tile Roofs (07 72 53)</b>		
07 72 53 00-0002	EA		6-5/8" Length, 1-1/2" Width, Copper Snow Guards For Shingle And Tile Roofs.....	14.25	2.16
07 72 53 00-0003	EA		6-5/8" Length, 1-1/2" Width, Lead Coated Copper Snow Guards For Shingle And Tile Roofs .....	15.50	2.16
07 72 53 00-0004	EA		6-5/8" Length, 1-1/2" Width, Stainless Steel Snow Guards For Shingle And Tile Roofs.....	14.67	2.16
07 72 53 00-0005	EA		6-5/8" Length, 1-1/2" Width, Aluminum Snow Guards For Shingle And Tile Roofs.....	8.91	2.16
<b>07 72 53 00-0006</b>			<b>Snow Guards For Metal Roofs (07 72 53)</b>		
			Note: Aluminum construction.		
07 72 53 00-0007	EA		Mill Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300) .....	18.62	4.30
07 72 53 00-0008	EA		Black Primer Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300).....	20.38	4.30
07 72 53 00-0009	EA		Bronze Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300).....	28.73	4.30
07 72 53 00-0010	EA		Painted Finish, Up To 9/32" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® RT 300).....	28.36	4.30
07 72 53 00-0011	EA		Mill Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516) .....	27.29	5.02
07 72 53 00-0012	EA		Black Primer Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516).....	29.51	5.02
07 72 53 00-0013	EA		Painted Finish, Up To 1/2" Seams, Standing Seam Metal Roof Snow Guard (Berger Real Tool® AP 516).....	36.04	5.02





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 53 00-0014 EA Mill Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM) ..... <i>For Mechanically Fastened, Add</i>	16.27 7.52	3.77
07 72 53 00-0015 EA Black Primer Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM) ..... <i>For Mechanically Fastened, Add</i>	18.10 7.52	3.77
07 72 53 00-0016 EA Painted Finish, Adhesive Surface Mount, Metal Roof Snow Guard (Berger Real Tool® SM)..... <i>For Mechanically Fastened, Add</i>	24.33 7.52	3.77
07 72 53 00-0017 EA Polycarbonate, Adhesive Surface Mount, Metal Roof Snow Guard (Zaleski #15) ..... Note: Can be used for metal, rubber, PVC, TPO or glass roofing. <i>For Mechanically Fastened, Add</i>	11.57 10.03	3.77
<b>07 72 53 00-0018 Snow Breaker For Roofs (07 72 53)</b>		
07 72 53 00-0019 EA Up To 50 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount .....	13.72	5.02
07 72 53 00-0020 EA >50 To 150 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount.....	13.12	5.02
07 72 53 00-0021 EA >150 To 500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount.....	12.82	5.02
07 72 53 00-0022 EA >500 Each, 2.875" Tall Plastic Snow Breaker, Adhesive Mount.....	12.47	5.02
<b>07 72 53 00-0023 Ice Breaker For Vents (07 72 53)</b>		
07 72 53 00-0024 EA Ice Breaker For Vents Up to 4", Mechanically Fastened.....	91.07	
07 72 53 00-0025 EA Ice Breaker For Vents And Stacks >4" To 14" Diameter, Mechanically Fastened.....	104.23	
<b>07 72 53 00-0026 Pipe Style, Snow Guards For Metal Roofs (07 72 53)</b>		
<b>07 72 53 00-0027 Pipe Style, Standing Seam Metal Roof Snow Guard Clamps (07 72 53 00-0026)</b> Note: Aluminum construction. Includes clamp for attaching to standing seam. Excludes tubing.		
07 72 53 00-0028 EA Single Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000).....	49.13	15.05
07 72 53 00-0029 EA Single Tube, "T2 or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 2000).....	56.46	15.05
07 72 53 00-0030 EA Double Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000).....	62.31	15.05
07 72 53 00-0031 EA Double Tube, "T2K or Z2K" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 4000).....	74.90	15.05
07 72 53 00-0032 EA Triple Tube, "U" Clamp, Pipe Style, Standing Seam Metal Roof Snow Guard Clamp (Alpine SnowGuards® 6000).....	79.01	18.06
<b>07 72 53 00-0033 Tubing For Snow Guard Clamps (07 72 53 00-0026)</b>		
07 72 53 00-0034 LF 1" Outside Diameter Aluminum Tubing For Snow Guard Clamps (Alpine SnowGuards®)..... Note: Includes end caps, collars and couplings.	10.64	3.62
07 72 53 00-0035 LF 1" Outside Diameter Brass Or Stainless Steel Tubing For Snow Guard Clamps (Alpine SnowGuards®)..... Note: Includes end caps, collars and couplings.	18.42	3.62
<b>07 72 56 Snow/Ice Melt (07 72)</b>		
<b>07 72 56 00-0001 Self Regulating Heating Cable For Roofs And Gutters (07 72 56)</b>		
07 72 56 00-0002 LF 12 Watt, 120 Volt, Self Regulating Low Temperature Cable For Roofs And Gutters..... Note: Nickel-coated copper braided cable with weatherproof jacket.	9.72	1.08
07 72 56 00-0003 LF 12 Watt, 208/277 Volt Self Regulating Low Temperature Cable For Roofs And Gutters..... Note: Nickel-coated copper braided cable with weatherproof jacket.	10.40	1.08
07 72 56 00-0004 EA Power Connection, End Seal And Warning Labels Kit For Self Regulating Heating Cable For Roofs And Gutters.....	201.08	80.91
07 72 56 00-0005 EA Splice Kit For Self Regulating Heating Cable For Roofs And Gutters.....	151.69	59.34
07 72 56 00-0006 EA Edge Of Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters..... <i>For &gt;5, Deduct</i>	7.65 -0.65	3.24
07 72 56 00-0007 EA Roof Cable Clips For Self Regulating Heating Cable For Roofs And Gutters..... <i>For &gt;5, Deduct</i>	7.14 -0.59	3.24
07 72 56 00-0008 EA Downspout Hanger Kit For Self Regulating Heating Cable For Roofs And Gutters.....	41.29	8.09
07 72 56 00-0009 EA 120 Volt AC, Snow Switch, Automatic Control For Melting Snow.....	621.60	64.73
07 72 56 00-0010 EA Automatic Gutter Ice Melting Control.....	847.07	80.91
<b>07 72 63 Waste Containment Assemblies (07 72)</b>		
<b>07 72 63 00-0001 Rooftop Oil And Grease Containment System (07 72 63)</b>		
<b>07 72 63 00-0002 Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD-E) (07 72 63 00-0001)</b>		
07 72 63 00-0003 EA 48" Length, 48" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100-E).....	1,793.21	172.82
07 72 63 00-0004 EA 60" Length, 60" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101-E).....	1,988.40	172.82
07 72 63 00-0005 EA 60" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106-E).....	2,414.44	179.73
07 72 63 00-0006 EA 72" Length, 72" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102-E).....	2,403.28	179.73
07 72 63 00-0007 EA 72" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103-E).....	3,107.55	194.42
07 72 63 00-0008 EA 72" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111-E).....	2,457.65	194.42
07 72 63 00-0009 EA 90" Length, 90" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105-E).....	2,749.75	230.37

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 72</b>	<b>Roof Accessories</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 63 00-0010 EA 108" Length, 108" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112-E).....	4,010.40	288.01
07 72 63 00-0011 EA 120" Length, 120" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107-E).....	4,925.28	288.01
07 72 63 00-0012 EA 144" Length, 144" Width, 3.5" Height, Light Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113-E).....	6,180.45	288.01
<b>07 72 63 00-0013 Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD) (07 72 63 00-0001)</b>		
07 72 63 00-0014 EA 48" Length, 48" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD100).....	2,175.28	172.82
07 72 63 00-0015 EA 60" Length, 60" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD101).....	2,429.12	172.82
07 72 63 00-0016 EA 60" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD106).....	2,975.09	179.73
07 72 63 00-0017 EA 72" Length, 72" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD102).....	3,025.31	179.73
07 72 63 00-0018 EA 72" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD103).....	4,270.68	194.42
07 72 63 00-0019 EA 72" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD111).....	4,669.55	194.42
07 72 63 00-0020 EA 90" Length, 90" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD105).....	4,378.68	230.37
07 72 63 00-0021 EA 108" Length, 108" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD112).....	4,953.17	288.01
07 72 63 00-0022 EA 120" Length, 120" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD107).....	6,144.19	288.01
07 72 63 00-0023 EA 144" Length, 144" Width, 3.5" Height, Heavy Duty, Rooftop Oil And Grease Containment System (Grease Guard® GRD113).....	7,775.91	288.01
<b>07 72 63 00-0024 Replacement Filter Sets For Rooftop Oil And Grease Containment System (07 72 63)</b>		
Note: Includes removing old filters and installing new filters.		
<b>07 72 63 00-0025 Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System (07 72 63 00-0024)</b>		
<b>07 72 63 00-0026 Light Duty, Top And Center Replacement Filter Sets For Rooftop Oil And Grease Containment System (07 72 63 00-0025)</b>		
07 72 63 00-0027 SET 48" Length, 48" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-E).....	144.60	
07 72 63 00-0028 SET 60" Length, 60" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-E).....	200.39	
07 72 63 00-0029 SET 60" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-E).....	284.06	
07 72 63 00-0030 SET 72" Length, 72" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-E).....	264.82	
07 72 63 00-0031 SET 72" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-E).....	487.96	
07 72 63 00-0032 SET 72" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-E).....	493.54	
07 72 63 00-0033 SET 90" Length, 90" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-E).....	385.03	
07 72 63 00-0034 SET 108" Length, 108" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-E).....	496.60	
07 72 63 00-0035 SET 120" Length, 120" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-E).....	722.54	
07 72 63 00-0036 SET 144" Length, 144" Width, 3.5" Height, Light Duty, Top And Center Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-E).....	948.47	
<b>07 72 63 00-0037 Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System (07 72 63 00-0024)</b>		
<b>07 72 63 00-0038 Light Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System (07 72 63 00-0037)</b>		
07 72 63 00-0039 SET 48" Length, 48" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-EC).....	297.02	
07 72 63 00-0040 SET 60" Length, 60" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-EC).....	391.86	
07 72 63 00-0041 SET 60" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-EC).....	564.80	
07 72 63 00-0042 SET 72" Length, 72" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-EC).....	528.80	
07 72 63 00-0043 SET 72" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-EC).....	1,005.77	
07 72 63 00-0044 SET 72" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-EC).....	1,011.34	
07 72 63 00-0045 SET 90" Length, 90" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-EC).....	755.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 72 63 00-0046 SET 108" Length, 108" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-EC) .....	1,014.42	
07 72 63 00-0047 SET 120" Length, 120" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-EC) .....	1,480.23	
07 72 63 00-0048 SET 144" Length, 144" Width, 3.5" Height, Light Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-EC) .....	1,965.56	

**07 72 63 00-0049 Heavy Duty, Complete Replacement Filter Sets For Rooftop Oil And Grease Containment System** (07 72 63 00-0037)

07 72 63 00-0050 SET 48" Length, 48" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL100-C) .....	366.76	
07 72 63 00-0051 SET 60" Length, 60" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL101-C) .....	453.23	
07 72 63 00-0052 SET 60" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL106-C) .....	659.63	
07 72 63 00-0053 SET 72" Length, 72" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL102-C) .....	626.43	
07 72 63 00-0054 SET 72" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL103-C) .....	1,209.38	
07 72 63 00-0055 SET 72" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL111-C) .....	1,203.81	
07 72 63 00-0056 SET 90" Length, 90" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL105-C) .....	883.33	
07 72 63 00-0057 SET 108" Length, 108" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL112-C) .....	1,218.03	
07 72 63 00-0058 SET 120" Length, 120" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL107-C) .....	1,703.37	
07 72 63 00-0059 SET 144" Length, 144" Width, 3.5" Height, Heavy Duty, Complete Replacement Filter Set For Rooftop Oil And Grease Containment System (Grease Guard® FIL113-C) .....	2,364.43	

**07 73 Roof Protection Board** (07 70)

**07 73 00 00-0001 Roof Protection Board (Georgia-Pacific DensDeck®)** (07 73)

Note: Use these items for specified related installations with systems per CSI section 07 50 00. Items are for single layer of panels attached per FM I-90 requirements. Types are stock sizes set in cold applied adhesive. Apply modifiers for specified alternate attachment.

07 73 00 00-0002 SF 1/4" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board (Georgia-Pacific DensDeck®) .....	2.63	0.43
<i>For No Adhesive, Deduct</i>	-0.52	
<i>For Hot-Mopped, Deduct</i>	-0.07	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.46	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.59	
07 73 00 00-0003 SF 1/2" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board (Georgia-Pacific DensDeck®) .....	2.96	0.47
<i>For No Adhesive, Deduct</i>	-0.54	
<i>For Hot-Mopped, Deduct</i>	-0.05	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.52	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.65	
07 73 00 00-0004 SF 5/8" Thick, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board (Georgia-Pacific DensDeck®) .....	3.13	0.52
<i>For No Adhesive, Deduct</i>	-0.56	
<i>For Hot-Mopped, Deduct</i>	-0.03	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.57	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.70	
07 73 00 00-0005 SF 1/4" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board (Georgia-Pacific DensDeck® Prime) .....	2.66	0.43
<i>For No Adhesive, Deduct</i>	-0.52	
<i>For Hot-Mopped, Deduct</i>	-0.07	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.46	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.59	
07 73 00 00-0006 SF 1/2" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board (Georgia-Pacific DensDeck® Prime) .....	3.00	0.47
<i>For No Adhesive, Deduct</i>	-0.54	
<i>For Hot-Mopped, Deduct</i>	-0.05	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.52	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.65	
07 73 00 00-0007 SF 5/8" Thick, Surface Primed, Fiberglass Mat Faced, Moisture Resistant Gypsum Core, Roof Protection Board (Georgia-Pacific DensDeck® Prime) .....	3.17	0.52
<i>For No Adhesive, Deduct</i>	-0.56	
<i>For Hot-Mopped, Deduct</i>	-0.03	
<i>For Mechanically Fastened To Wood Or Steel, Deduct</i>	-0.15	
<i>For Mechanically Fastened To Concrete, Add</i>	0.57	
<i>For Mechanically Fastened To Gypsum, Add</i>	0.70	

**07 76 Roof Pavers** (07 70)

<b>07</b>	<b>Thermal And Moisture Protection</b>
<b>07 70</b>	<b>Roof And Wall Specialties And Accessories</b>
<b>07 76</b>	<b>Roof Pavers</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**07 76 16 Roof Decking Pavers (07 76)****07 76 16 00-0001 Roof Pavers (07 76 16)**

Note: For walkway application over roofing system.

07 76 16 00-0002	SF	Up To 100 SF, 2" Concrete Roof Paver .....	11.83	5.51
		<i>For 1-1/2" Thickness, Deduct</i>	-0.96	
		<i>For 2-1/2" Thickness, Add</i>	0.96	
		<i>For 3" Thickness, Add</i>	1.92	
07 76 16 00-0003	SF	>100 To 200 SF, 2" Concrete Roof Paver .....	10.12	4.15
		<i>For 1-1/2" Thickness, Deduct</i>	-0.80	
		<i>For 2-1/2" Thickness, Add</i>	0.80	
		<i>For 3" Thickness, Add</i>	1.61	
07 76 16 00-0004	SF	>200 To 400 SF, 2" Concrete Roof Paver .....	8.70	3.30
		<i>For 1-1/2" Thickness, Deduct</i>	-0.67	
		<i>For 2-1/2" Thickness, Add</i>	0.67	
		<i>For 3" Thickness, Add</i>	1.35	
07 76 16 00-0005	SF	>400 To 1,000 SF, 2" Concrete Roof Paver .....	7.81	2.88
		<i>For 1-1/2" Thickness, Deduct</i>	-0.60	
		<i>For 2-1/2" Thickness, Add</i>	0.60	
		<i>For 3" Thickness, Add</i>	1.19	
07 76 16 00-0006	SF	>1,000 SF, 2" Concrete Roof Paver .....	7.20	2.62
		<i>For 1-1/2" Thickness, Deduct</i>	-0.55	
		<i>For 2-1/2" Thickness, Add</i>	0.55	
		<i>For 3" Thickness, Add</i>	1.09	

**07 76 16 00-0007 Roof Paver Pedestal (07 76 16)**

07 76 16 00-0008	EA	2" To 3" High Adjustable Roof Paver Pedestal, 2" Base, 2" Top (Hanover Elevator) .....	15.09	0.86
07 76 16 00-0009	EA	3" To 4-3/4" High Adjustable Roof Paver Pedestal, 3" Base, 3" Top (Hanover Elevator) .....	15.95	0.86
07 76 16 00-0010	EA	4-3/4" To 7-3/4" High Adjustable Roof Paver Pedestal, 4" Base, 4" Top (Hanover Elevator) .....	16.82	0.86
07 76 16 00-0011	EA	Adjustable Roof Paver Pedestal Coupler, Adds 2-1/2" To 4" (Hanover Elevator) .....	8.21	0.86
07 76 16 00-0012	EA	Stay Bar, Used With Roof Paver Pedestals >16" High (Hanover Elevator) .....	7.90	0.86
07 76 16 00-0013	EA	5/8" High Tab Roof Paver Pedestal (Hanover High Tab Pedestal) .....	8.06	0.86
		Note: Stackable.		
07 76 16 00-0014	EA	1/16" And 1/8" Flexible Leveling Plates For Roof Paver Pedestal .....	4.47	0.86
		Note: Used with High Tab and Elevator pedestals.		
07 76 16 00-0015	EA	Roof Paver Leveling System, Twist To Adjust Pitch (Hanover Compensator) .....	6.30	0.86
		Note: Each Compensator levels 1/8" of slope and are stackable. Used with High Tab and Elevator pedestals.		

**07 76 19 Composite Insulation Concrete Protection Board (07 76)**

Note: Manufactured by T. Clear Corp. 25 year warranty.

**07 76 19 00-0001 Composite Insulation Concrete Protection Board (07 76 19)**

Note: Manufactured by T. Clear Corp. 25 year warranty.

07 76 19 00-0002	SF	2" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF .....	3.64	
		<i>For 20 Year Warranty, Deduct</i>	-0.19	
		<i>For 15 Year Warranty, Deduct</i>	-0.39	
		<i>For 10 Year Warranty, Deduct</i>	-0.52	
		<i>For Winds &gt;90 MPH To 120 MPH Warranty, Add</i>	0.10	
07 76 19 00-0003	SF	3" Extruded Polystyrene Insulation Board Lightguard Composite With 3/8" Latex Modified Concrete, 4.5 PSF .....	4.67	
		<i>For 20 Year Warranty, Deduct</i>	-0.27	
		<i>For 15 Year Warranty, Deduct</i>	-0.55	
		<i>For 10 Year Warranty, Deduct</i>	-0.75	
		<i>For Winds &gt;90 MPH To 120 MPH Warranty, Add</i>	0.10	
07 76 19 00-0004	SF	2" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF .....	5.50	
		<i>For 20 Year Warranty, Deduct</i>	-0.32	
		<i>For 15 Year Warranty, Deduct</i>	-0.64	
		<i>For 10 Year Warranty, Deduct</i>	-0.86	
		<i>For Winds &gt;90 MPH To 120 MPH Warranty, Add</i>	0.10	
07 76 19 00-0005	SF	3" Extruded Polystyrene Insulation Board Heavyguard Composite With 15/16" Latex Modified Concrete, 11 PSF .....	6.59	
		<i>For 20 Year Warranty, Deduct</i>	-0.40	
		<i>For 15 Year Warranty, Deduct</i>	-0.80	
		<i>For 10 Year Warranty, Deduct</i>	-1.09	
		<i>For Winds &gt;90 MPH To 120 MPH Warranty, Add</i>	0.10	

**07 80 Fire And Smoke Protection (07)****07 81 Applied Fireproofing (07 80)**

Note: Includes bonding agents as required.

**07 81 16 Cementitious Fireproofing (07 81)****07 81 16 00-0001 Cementitious Fireproofing (07 81 16)****07 81 16 00-0002 Spray On Ceiling (Metal Decking Corrugated Or Fluted) (07 81 16 00-0001)**

07 81 16 00-0003	SF	Spray Fireproofing For Ceiling, 1 Hour Rated 1/2" Thick Coverage .....	1.10	0.62
07 81 16 00-0004	SF	Spray Fireproofing For Ceiling, 2 Hour Rated 7/8" Thick Coverage .....	1.53	0.74

**07 81 16 00-0005 Spray On Roofs And Beams (07 81 16 00-0001)**

07 81 16 00-0006	SF	Spray Fireproofing For Beams And Roofs, 1 Hour Rated 1-3/8" Thick Coverage .....	2.24	0.91
07 81 16 00-0007	SF	Spray Fireproofing For Beams And Roofs, 2 Hour Rated 1-1/2" Thick Coverage .....	2.42	0.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 81 16 00-0008 SF Spray Fireproofing For Beams And Roofs, 2 Hour Rated 1-5/8" Thick Coverage .....	2.52	1.03
<b>07 81 16 00-0009 Spray On Beams (Min. W8x24)</b> <small>(07 81 16 00-0001)</small>		
07 81 16 00-0010 SF Spray Fireproofing For Beams, 1 Hour Rated 7/16" Thick Coverage (Min W8x24) .....	0.93	0.50
07 81 16 00-0011 SF Spray Fireproofing For Beams, 2 Hour Rated 1/2" Thick Coverage (Min W8x24) .....	1.15	0.62
07 81 16 00-0012 SF Spray Fireproofing For Beams, 3 Hour Rated 7/8" Thick Coverage (Min W8x24) .....	1.63	0.74
07 81 16 00-0013 SF Spray Fireproofing For Beams, 4 Hour Rated 1-1/4" Thick Coverage (Min W8x24) .....	2.16	0.87
<b>07 81 16 00-0014 Spray On Columns (W10x49)</b> <small>(07 81 16 00-0001)</small>		
07 81 16 00-0015 SF Spray Fireproofing For Columns, 1 Hour Rated 1-3/16" Thick Coverage (W10x49) .....	2.11	0.83
07 81 16 00-0016 SF Spray Fireproofing For Columns, 2 Hour Rated 1-1/4" Thick Coverage (W10x49) .....	2.30	0.87
07 81 16 00-0017 SF Spray Fireproofing For Columns, 3 Hour Rated 1-7/8" Thick Coverage (W10x49) .....	2.93	1.03
07 81 16 00-0018 SF Spray Fireproofing For Columns, 4 Hour Rated 2-1/2" Thick Coverage (W10x49) .....	3.82	1.24
<b>07 81 16 00-0019 Spray On Columns (W14x228)</b> <small>(07 81 16 00-0001)</small>		
07 81 16 00-0020 SF Spray Fireproofing For Columns, 2 Hour Rated 5/8" Thick Coverage (W14x228) .....	1.37	0.62
07 81 16 00-0021 SF Spray Fireproofing For Columns, 3 Hour Rated 7/8" Thick Coverage (W14x228) .....	1.73	0.74
07 81 16 00-0022 SF Spray Fireproofing For Columns, 4 Hour Rated 1-1/4" Thick Coverage (W14x228) .....	2.30	0.91
<b>07 81 16 00-0023 Gunite Fireproofing</b> <small>(07 81 16)</small>		
07 81 16 00-0024 SF Fireproofing, Gunite, Non Reinforced, 1" Thick .....	2.46	0.64
07 81 16 00-0025 SF Fireproofing, Gunite, Reinforced, 1" Thick .....	3.42	0.64
<b>07 81 16 00-0026 Monokote Fireproofing</b> <small>(07 81 16)</small>		
07 81 16 00-0027 CSF Monokote Fireproofing For Structural Steel .....	245.05	92.73
Note: Per inch of thickness.		
07 81 16 00-0028 CSF Monokote Fireproofing For Columns .....	228.32	1.24
Note: Per inch of thickness.		
07 81 16 00-0029 CSF Monokote Fireproofing For Ceiling/Decking .....	175.30	62.09
Note: Per inch of thickness.		
<b>07 81 23 Intumescent Fireproofing</b> <small>(07 81)</small>		
<b>07 81 23 00-0001 Intumescent Thin Film Fireproofing (Albi Clad TF)</b> <small>(07 81 23)</small>		
<b>07 81 23 00-0002 Intumescent Thin Film Fireproofing For Beams (Albi Clad TF)</b> <small>(07 81 23 00-0001)</small>		
Note: Excludes primer.		
07 81 23 00-0003 SF 1 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF) .....	9.68	
For >10,000, Deduct	-0.91	
07 81 23 00-0004 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Beams (Albi Clad TF) .....	15.36	
For >10,000, Deduct	-1.48	
<b>07 81 23 00-0005 Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF)</b> <small>(07 81 23 00-0001)</small>		
Note: Excludes primer.		
07 81 23 00-0006 SF 1 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) .....	6.44	
For >10,000, Deduct	-0.58	
07 81 23 00-0007 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) .....	13.82	
For >10,000, Deduct	-1.32	
07 81 23 00-0008 SF 2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) .....	30.79	
For >10,000, Deduct	-3.01	
07 81 23 00-0009 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) .....	42.26	
For >10,000, Deduct	-4.15	
07 81 23 00-0010 SF 3 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) .....	53.72	
For >10,000, Deduct	-5.29	
07 81 23 00-0011 SF 3-1/2 Hour, Intumescent Thin Film Fireproofing For Wide Flange Columns (Albi Clad TF) .....	65.20	
For >10,000, Deduct	-6.44	
<b>07 81 23 00-0012 Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF)</b> <small>(07 81 23 00-0001)</small>		
Note: Excludes primer.		
07 81 23 00-0013 SF 1 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) .....	12.61	
For >10,000, Deduct	-1.20	
07 81 23 00-0014 SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) .....	23.12	
For >10,000, Deduct	-2.25	
07 81 23 00-0015 SF 2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) .....	36.49	
For >10,000, Deduct	-3.58	
07 81 23 00-0016 SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) .....	50.81	
For >10,000, Deduct	-5.01	
07 81 23 00-0017 SF 3 Hour, Intumescent Thin Film Fireproofing For Hollow Section Columns (Albi Clad TF) .....	64.17	
For >10,000, Deduct	-6.34	

**07 Thermal And Moisture Protection****07 80 Fire And Smoke Protection****07 81 Applied Fireproofing**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

07 81 23 00-0018	Intumescent Thin Film Fireproofing (Albi Clad FP) <small>(07 81 23)</small>		
07 81 23 00-0019	Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) <small>(07 81 23 00-0018)</small>		
	Note: Excludes primer.		
07 81 23 00-0020	SF 1 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) .....	6.19	
	For >10,000, Deduct .....	-0.58	
07 81 23 00-0021	SF 1-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) .....	13.80	
	For >10,000, Deduct .....	-1.34	
07 81 23 00-0022	SF 2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) .....	31.26	
	For >10,000, Deduct .....	-3.08	
07 81 23 00-0023	SF 2-1/2 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) .....	43.05	
	For >10,000, Deduct .....	-4.25	
07 81 23 00-0024	SF 3 Hour, Intumescent Thin Film Fireproofing For Exposed Wood, Wallboard And Non-Ferrous Substrates (Albi Clad FP) .....	54.86	
	For >10,000, Deduct .....	-5.43	
<b>07 81 33</b>	<b>Mineral-Fiber Fireproofing</b> <small>(07 81)</small>		
07 81 33 00-0001	Cellulose Fireproofing <small>(07 81 33)</small>		
07 81 33 00-0002	SF Cellulose Fireproofing, Per Inch Of Thickness .....	2.15	0.64
07 82	Board Fireproofing <small>(07 82)</small>		
	Note: Type A: 1 hour rating.		
07 82 00 00-0001	Fireproofing On Columns <small>(07 82)</small>		
07 82 00 00-0002	Up To 4,500 SF, Fireproofing On Columns <small>(07 82 00 00-0001)</small>		
07 82 00 00-0003	CSF Lath And Cement Plaster, 1 Hour, Mk A, Up To 4,500 SF, Fireproofing On Columns .....	1,367.05	961.54
07 82 00 00-0004	CSF Lath And Cement Plaster, 2 Hour, Mk B, Up To 4,500 SF, Fireproofing On Columns .....	2,459.79	1,717.03
07 82 00 00-0005	CSF Lath And Vermiculite Concrete, 4 Hour, Mk C, Up To 4,500 SF, Fireproofing On Columns .....	2,179.82	1,511.00
07 82 00 00-0006	CSF Lath And Gypsum Plaster, 4 Hour, Mk D, Up To 4,500 SF, Fireproofing On Columns .....	1,444.46	892.86
07 82 00 00-0007	CSF Lath And Gypsum Plaster, 4 Hour, Mk E, Up To 4,500 SF, Fireproofing On Columns .....	1,138.91	755.49
07 82 00 00-0008	CSF Gypsum Board, 2 Hour, Mk F, Up To 4,500 SF, Fireproofing On Columns .....	1,694.10	1,167.59
07 82 00 00-0009	CSF Gypsum Board, 2 Hour, Mk G, Up To 4,500 SF, Fireproofing On Columns .....	947.86	618.13
07 82 00 00-0010	>4,500 SF, Fireproofing On Columns <small>(07 82 00 00-0001)</small>		
07 82 00 00-0011	CSF Lath And Cement Plaster, 1 Hour, Mk A >4,500 SF, Fireproofing On Columns .....	1,387.73	961.54
07 82 00 00-0012	CSF Lath And Cement Plaster, 2 Hour, Mk B, >4,500 SF, Fireproofing On Columns .....	2,501.15	1,717.03
07 82 00 00-0013	CSF Lath And Vermiculite Concrete, 4 Hour, Mk C, >4,500 SF, Fireproofing On Columns .....	2,327.97	1,511.00
07 82 00 00-0014	CSF Lath And Gypsum Plaster, 4 Hour, Mk D, >4,500 SF, Fireproofing On Columns .....	1,301.32	892.86
07 82 00 00-0015	CSF Lath And Gypsum Plaster, 2 Hour, Mk E, >4,500 SF, Fireproofing On Columns .....	1,065.10	755.49
07 82 00 00-0016	CSF Gypsum Board, 2 Hour, Mk F, >4,500 SF, Fireproofing On Columns .....	1,678.91	1,167.59
07 82 00 00-0017	CSF Gypsum Board, 2 Hour, Mk G, >4,500 SF, Fireproofing On Columns .....	934.11	618.13
07 84	Firestopping <small>(07 84)</small>		
<b>07 84 13</b>	<b>Penetration Firestopping</b> <small>(07 84)</small>		
<b>07 84 13 16</b>	<b>Penetration Firestopping Devices</b> <small>(07 84 13)</small>		
07 84 13 16-0001	Firestopping Systems For Cable Penetrations <small>(07 84 13 16)</small>		
07 84 13 16-0002	Intumescent Firestop Cable Sleeve For New Installations <small>(07 84 13 16-0001)</small>		
	Note: Includes putty, escutcheon plates, gaskets and bushings.		
07 84 13 16-0003	EA 1" Diameter Intumescent Firestop Sleeve (STI FS100) .....	53.63	
07 84 13 16-0004	EA 2" Diameter Intumescent Firestop Sleeve (STI FS201) .....	71.20	
07 84 13 16-0005	EA 4" Diameter Intumescent Firestop Sleeve (STI FS401) .....	113.95	
07 84 13 16-0006	Intumescent Firestop Cable Pathway For New Or Existing Cable Installations <small>(07 84 13 16-0001)</small>		
	Note: Includes putty and mounting plates.		
07 84 13 16-0007	EA 1-1/64" x 1-1/64" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZD22) .....	95.58	
07 84 13 16-0008	EA 3" x 3" Intumescent Firestop Cable Pathway Through Up To 9" Thick Walls (STI EZDP33FWS) .....	166.06	
07 84 13 16-0009	EA 4" x 4-5/8" Intumescent Firestop Cable Pathway Through Up To 10" Thick Walls (STI EZDP44) .....	302.12	
07 84 13 16-0010	3M Intumescent Firestopping Multi-Trade Pass Through Device <small>(07 84 13 16)</small>		
07 84 13 16-0011	EA 2.5" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD) .....	215.61	
07 84 13 16-0012	EA 4" Square Opening, Intumescent Firestop Multi-Trade Pass Through Device (3M QP4SD) .....	200.08	
07 84 13 16-0013	EA 4" Diameter Intumescent Firestop Multi-Trade Pass Through Device (3M QP2.5SD) .....	205.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>07 84 13 16-0014 Intumescent Firestopping Pipe Collar</b> <small>(07 84 13 16)</small>		
07 84 13 16-0015 EA 1-1/2" Intumescent Firestop Pipe Collar (3M ULTRAPPD1.5) .....	37.02	11.75
07 84 13 16-0016 EA 2" Intumescent Firestop Pipe Collar (3M ULTRAPPD2.0) .....	43.53	11.75
07 84 13 16-0017 EA 3" Intumescent Firestop Pipe Collar (3M ULTRAPPD3.0) .....	50.30	12.93
07 84 13 16-0018 EA 4" Intumescent Firestop Pipe Collar (3M ULTRAPPD4.0) .....	76.17	14.70
07 84 13 16-0019 EA 8" Intumescent Firestop Pipe Collar (Hilti CP644 8") .....	349.12	17.64
07 84 13 16-0020 EA 10" Intumescent Firestop Pipe Collar (Hilti CP644 10") .....	449.49	19.40
<b>07 84 13 16-0021 Fire Rated Enclosures (Fire Rated Product Specialties Corp.)</b> <small>(07 84 13 16)</small>		
Note: Includes fasteners. Excludes additional perimeter caulk where required. See CSI section 07 84 43 00-0001 for perimeter sealant caulk where required.		
07 84 13 16-0022 EA 12.2" Wide x 20.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9) .....	120.34	
Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.		
07 84 13 16-0023 EA 15.2" Wide x 16.2" Long x 9.5" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-15-16-9) .....	125.94	
Note: Used for recessed lighting, speakers, controls, valves, plumbing drain terminations, etc.		
07 84 13 16-0024 EA 11.8" Wide x 19.8" Long x 9.12" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-12-20-9-EXH) .....	228.58	
Note: Includes 4" duct connector. For use with bathroom ventilation and exhaust fans.		
07 84 13 16-0025 EA 14.0" Wide x 14.0" Long x 3.2" Deep Fire Rated Enclosure, 1 Hour Rated (FRPS #FN-Z-14-14-3) .....	150.59	
Note: Used for shut-off valves, shower and tub valves, washer boxes, icemaker water feeds, speakers, controls, junction boxes, etc.		
<b>07 84 13 16-0026 Intumescent Firestopping Wrap Strips</b> <small>(07 84 13 16)</small>		
07 84 13 16-0027 LF 1/8" Thick, 1-1/2" Wide, Intumescent Firestopping Wrap Strip (STI SpecSeal SSW Series) .....	5.23	
<b>07 84 13 19 Penetration Firestopping Caulk</b> <small>(07 84 13)</small>		
<b>07 84 13 19-0001 Intumescent Firestopping For Sealing Pipe Penetrations</b> <small>(07 84 13 19)</small>		
Note: Includes firestop caulk and batt for floor or ceiling penetration or one side of a wall penetration. 1/2" thick caulk for annular spaces 1" and less. 1" thick caulk for annular spaces 1-1/4" or more.		
07 84 13 19-0002 EA 1" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	20.43	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.06	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.02	
07 84 13 19-0003 EA 1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	25.08	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.30	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.11	
07 84 13 19-0004 EA 1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant .....	24.89	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.22	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.08	
07 84 13 19-0005 EA 1-1/2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant .....	24.58	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.10	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.04	
07 84 13 19-0006 EA 2" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	28.97	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.63	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.24	
07 84 13 19-0007 EA 2" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant .....	28.78	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.56	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.21	
07 84 13 19-0008 EA 2" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant .....	28.47	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.43	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.16	
07 84 13 19-0009 EA 2" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant .....	27.99	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.24	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.09	
07 84 13 19-0010 EA 2" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	27.58	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.08	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.03	
07 84 13 19-0011 EA 2.5" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	35.11	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	1.06	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.40	
07 84 13 19-0012 EA 2.5" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant .....	34.93	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.99	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.37	
07 84 13 19-0013 EA 2.5" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant .....	34.61	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.86	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.32	
07 84 13 19-0014 EA 2.5" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant .....	34.13	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.67	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.25	
07 84 13 19-0015 EA 2.5" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	33.72	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.50	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.19	
07 84 13 19-0016 EA 2.5" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant .....	32.75	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	0.12	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.04	
07 84 13 19-0017 EA 3" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	47.71	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	2.86	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	1.07	
07 84 13 19-0018 EA 3" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant .....	44.35	
<i>For Intumescent Sealant For Plastic Pipe, Add</i>		
	1.51	
<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>		
	0.57	

**07 Thermal And Moisture Protection****07 80 Fire And Smoke Protection****07 84 Firestopping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0019	EA		3" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant .....	44.04	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.39	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	0.52	
07 84 13 19-0020	EA		3" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant .....	43.55	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.19	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	0.45	
07 84 13 19-0021	EA		3" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	43.15	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.03	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	0.39	
07 84 13 19-0022	EA		3" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant .....	42.18	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.64	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	0.24	
07 84 13 19-0023	EA		3" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	40.92	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.14	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	0.05	
07 84 13 19-0024	EA		4" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant.....	63.88	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	5.27	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1.98	
07 84 13 19-0025	EA		4" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant.....	63.54	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	5.13	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1.92	
07 84 13 19-0026	EA		4" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant .....	62.98	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	4.91	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1.84	
07 84 13 19-0027	EA		4" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant .....	62.11	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	4.56	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1.71	
07 84 13 19-0028	EA		4" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	61.38	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	4.27	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1.60	
07 84 13 19-0029	EA		4" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant .....	55.66	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.98	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	0.74	
07 84 13 19-0030	EA		4" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	54.41	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	1.48	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	0.56	
07 84 13 19-0031	EA		4" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant .....	52.50	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	0.72	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	0.27	
07 84 13 19-0032	EA		6" Diameter Hole With 1/2" Pipe, Sealed With Intumescent Firestop Sealant.....	101.39	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	12.16	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	4.56	
07 84 13 19-0033	EA		6" Diameter Hole With 3/4" Pipe, Sealed With Intumescent Firestop Sealant.....	101.05	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	12.02	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	4.51	
07 84 13 19-0034	EA		6" Diameter Hole With 1" Pipe, Sealed With Intumescent Firestop Sealant .....	100.49	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	11.80	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	4.42	
07 84 13 19-0035	EA		6" Diameter Hole With 1-1/4" Pipe, Sealed With Intumescent Firestop Sealant .....	99.62	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	11.45	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	4.29	
07 84 13 19-0036	EA		6" Diameter Hole With 1-1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	98.89	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	11.16	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	4.18	
07 84 13 19-0037	EA		6" Diameter Hole With 2" Pipe, Sealed With Intumescent Firestop Sealant .....	97.14	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	10.46	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	3.92	
07 84 13 19-0038	EA		6" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	94.88	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	9.55	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	3.58	
07 84 13 19-0039	EA		6" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant .....	91.45	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	8.18	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	3.07	
07 84 13 19-0040	EA		6" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant .....	78.54	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	3.02	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1.13	
07 84 13 19-0041	EA		8" Diameter Hole With 2-1/2" Pipe, Sealed With Intumescent Firestop Sealant .....	134.21	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	19.20	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	7.20	
07 84 13 19-0042	EA		8" Diameter Hole With 3" Pipe, Sealed With Intumescent Firestop Sealant .....	130.77	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	17.82	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	6.68	
07 84 13 19-0043	EA		8" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant .....	123.89	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	15.07	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	5.65	
07 84 13 19-0044	EA		8" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant .....	95.81	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	3.84	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1.44	
07 84 13 19-0045	EA		10" Diameter Hole With 4" Pipe, Sealed With Intumescent Firestop Sealant.....	170.10	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	27.47	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	10.30	
07 84 13 19-0046	EA		10" Diameter Hole With 6" Pipe, Sealed With Intumescent Firestop Sealant.....	149.68	
			<i>For Intumescent Sealant For Plastic Pipe, Add</i>	19.30	
			<i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	7.24	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0047	EA			10" Diameter Hole With 8" Pipe, Sealed With Intumescent Firestop Sealant ..... <i>For Intumescent Sealant For Plastic Pipe, Add</i> <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	113.64 4.88 1.83	
<b>07 84 13 19-0048</b>				<b>Smoke, Noise And Infectious/Dust Control Sealant For Sealing Pipe Penetrations</b> <small>(07 84 13 19)</small> Note: Includes sealant and fiberglass or mineral wool batt for floor, ceiling or wall penetrations.		
07 84 13 19-0049	EA			1-1/2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	24.59	
07 84 13 19-0050	EA			1-1/2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	24.52	
07 84 13 19-0051	EA			1-1/2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	24.42	
07 84 13 19-0052	EA			2" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	27.92	
07 84 13 19-0053	EA			2" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	27.84	
07 84 13 19-0054	EA			2" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	27.75	
07 84 13 19-0055	EA			2" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	27.60	
07 84 13 19-0056	EA			2" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	27.46	
07 84 13 19-0057	EA			2.5" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	33.37	
07 84 13 19-0058	EA			2.5" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	33.31	
07 84 13 19-0059	EA			2.5" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	33.20	
07 84 13 19-0060	EA			2.5" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	33.05	
07 84 13 19-0061	EA			2.5" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	32.92	
07 84 13 19-0062	EA			2.5" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	32.59	
07 84 13 19-0063	EA			3" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	41.92	
07 84 13 19-0064	EA			3" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	41.85	
07 84 13 19-0065	EA			3" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	41.76	
07 84 13 19-0066	EA			3" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	41.60	
07 84 13 19-0067	EA			3" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	41.47	
07 84 13 19-0068	EA			3" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	41.14	
07 84 13 19-0069	EA			3" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	40.67	
07 84 13 19-0070	EA			4" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	53.22	
07 84 13 19-0071	EA			4" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	53.15	
07 84 13 19-0072	EA			4" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	53.05	
07 84 13 19-0073	EA			4" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	52.89	
07 84 13 19-0074	EA			4" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	52.74	
07 84 13 19-0075	EA			4" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	52.40	
07 84 13 19-0076	EA			4" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	51.98	
07 84 13 19-0077	EA			4" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	51.31	
07 84 13 19-0078	EA			6" Diameter Hole With 1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	76.79	
07 84 13 19-0079	EA			6" Diameter Hole With 3/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	76.72	
07 84 13 19-0080	EA			6" Diameter Hole With 1" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	76.62	
07 84 13 19-0081	EA			6" Diameter Hole With 1-1/4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	76.47	
07 84 13 19-0082	EA			6" Diameter Hole With 1-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	76.34	
07 84 13 19-0083	EA			6" Diameter Hole With 2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	76.01	
07 84 13 19-0084	EA			6" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	75.55	
07 84 13 19-0085	EA			6" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	74.92	
07 84 13 19-0086	EA			6" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	73.56	

**07 Thermal And Moisture Protection****07 80 Fire And Smoke Protection****07 84 Firestopping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 13 19-0087	EA		8" Diameter Hole With 2-1/2" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	95.37	
07 84 13 19-0088	EA		8" Diameter Hole With 3" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	94.74	
07 84 13 19-0089	EA		8" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	93.38	
07 84 13 19-0090	EA		8" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	89.54	
07 84 13 19-0091	EA		10" Diameter Hole With 4" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	114.53	
07 84 13 19-0092	EA		10" Diameter Hole With 6" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	110.68	
07 84 13 19-0093	EA		10" Diameter Hole With 8" Pipe, Sealed With Smoke, Noise And Infectious/Dust Control Sealant (STI SpecSeal Smoke 'N' Sound).....	105.59	
<b>07 84 16 Annular Space Protection (07 84)</b>					
07 84 16 00-0001			Intumescent Firestopping For Electrical Outlet Boxes (07 84 16)		
07 84 16 00-0002			Intumescent Putty Pads For Wrapping Outlet Box Exteriors (07 84 16 00-0001)		
07 84 16 00-0003	EA		1 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	30.62	
07 84 16 00-0004	EA		2 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	42.96	
07 84 16 00-0005	EA		3 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	44.99	
07 84 16 00-0006	EA		4 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	47.02	
07 84 16 00-0007	EA		5 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	49.05	
07 84 16 00-0008	EA		6 Gang Outlet Box, Intumescent Firestop Putty Exterior Wrap (3M MPP+).....	61.41	
07 84 16 00-0009			Intumescent Firestop Gasket For Wall Plates (07 84 16 00-0001)		
07 84 16 00-0010	EA		Single Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66276).....	12.63	
07 84 16 00-0011	EA		Double Switch Wall Plate, Intumescent Firestop Gasket (RectorSeal 66274).....	13.07	
07 84 16 00-0012	EA		Single Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66272).....	12.26	
07 84 16 00-0013	EA		Double Receptacle Wall Plate, Intumescent Firestop Gasket (RectorSeal 66270).....	13.10	
07 84 16 00-0014	EA		Single Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66266).....	12.77	
07 84 16 00-0015	EA		Double Decor Wall Plate, Intumescent Firestop Gasket (RectorSeal 66265).....	12.32	
07 84 16 00-0016			Intumescent Fire Barrier Pillows For Sealing Large Openings (07 84 16)		
07 84 16 00-0017	EA		2" x 4" x 9" Intumescent Fire Barrier Pillow (3M FB249).....	29.63	
07 84 16 00-0018	EA		2" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB269).....	31.75	
07 84 16 00-0019	EA		3" x 6" x 9" Intumescent Fire Barrier Pillow (3M FB369).....	34.36	
07 84 16 00-0020			Intumescent Fire Barrier Sheets For Sealing Large Openings (07 84 16)		
			Note: Price includes intumescent sheet, mounting fasteners and caulk for sealing one side of an opening.		
07 84 16 00-0021	EA		16" x 28" Intumescent Firestop Sheet (3M CS-195+16x28).....	274.40	
07 84 16 00-0022	EA		36" x 24" Intumescent Firestop Sheet (3M CS-195+3x2).....	383.01	
07 84 16 00-0023	EA		36" x 36" Intumescent Firestop Sheet (3M CS-195+3x3).....	515.08	
07 84 16 00-0024			Endothermic Mat Wrap Fire Barrier (07 84 16)		
			Note: Price includes endothermic mat wrap and sealant. Excludes cavity fill material; putty or fireproof caulk/sealant. See CSI section 07 84 16 00-0026 for filling openings.		
07 84 16 00-0025	SF		0.408" Thick Aluminum Foil Faced Endothermic Mat (3M Interam E-5A-4).....	42.37	
07 84 16 00-0026			Firestopping Caulk For Filling Opening (07 84 16)		
07 84 16 00-0027	GAL		Latex Based Intumescent Fire Barrier Sealant (3M CP-25WB+).....	153.97	
07 84 16 00-0028			Firestopping Mortar For Filling Opening (07 84 16)		
07 84 16 00-0029	CF		Light-Weight Portland Cement-Based Firestop Mortar (STI SpecSeal SSM Series).....	135.74	
<b>07 84 23 Silicone Firestopping Foams (07 84)</b>					
07 84 23 00-0001			Silicone RTV Foam Seal For Blank Openings (07 84 23)		
07 84 23 00-0002	EA		2" Diameter Hole Sealed With RTV Silicone Fire Barrier Foam.....	38.62	
07 84 23 00-0003	EA		4" Diameter Hole Sealed With RTV Silicone Fire Barrier Foam.....	92.05	
07 84 23 00-0004	EA		6" Diameter Hole Sealed With RTV Silicone Fire Barrier Foam.....	162.09	
07 84 23 00-0005	EA		8" Diameter Hole Sealed With RTV Silicone Fire Barrier Foam.....	246.53	
07 84 23 00-0006	EA		10" Diameter Hole Sealed With RTV Silicone Fire Barrier Foam.....	350.47	
07 84 23 00-0007	EA		12" Diameter Hole Sealed With RTV Silicone Fire Barrier Foam.....	468.92	
<b>07 84 43 Joint Firestopping (07 84)</b>					
07 84 43 00-0001			Intumescent Firestopping Sealant For Joints (07 84 43)		
07 84 43 00-0002	CLF		1/4" x 1/4" Joint, Intumescent Firestop Sealant.....	397.70	162.27
			For Silicone Sealant (Bio Fireshield BFS 100 or 200), add	10.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 43 00-0003 CLF 1/4" x 3/8" Joint, Intumescent Firestop Sealant ..... <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	454.48 16.45	172.42
07 84 43 00-0004 CLF 1/4" x 1/2" Joint, Intumescent Firestop Sealant ..... <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	491.04 21.94	172.42
07 84 43 00-0005 CLF 3/8" x 3/8" Joint, Intumescent Firestop Sealant ..... <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	509.32 24.68	172.42
07 84 43 00-0006 CLF 3/8" x 1/2" Joint, Intumescent Firestop Sealant ..... <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	564.16 32.90	172.42
07 84 43 00-0007 CLF 3/8" x 5/8" Joint, Intumescent Firestop Sealant ..... <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	639.36 41.13	182.58
07 84 43 00-0008 CLF 3/8" x 3/4" Joint, Intumescent Firestop Sealant ..... <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	714.40 49.36	192.71
07 84 43 00-0009 CLF 1/2" x 1/2" Joint, Intumescent Firestop Sealant ..... <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	657.64 43.87	182.58
07 84 43 00-0010 CLF 1/2" x 5/8" Joint, Intumescent Firestop Sealant ..... <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	771.31 54.84	202.85
07 84 43 00-0011 CLF 1/2" x 3/4" Joint, Intumescent Firestop Sealant ..... <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	864.74 65.81	213.01
07 84 43 00-0012 CLF 1/2" x 7/8" Joint, Intumescent Firestop Sealant ..... <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	958.10 76.78	223.13
07 84 43 00-0013 CLF 1/2" x 1" Joint, Intumescent Firestop Sealant ..... <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1,193.62 87.74	304.26
07 84 43 00-0014 CLF 3/4" x 3/4" Joint, Intumescent Firestop Sealant ..... <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1,307.25 98.71	324.59
07 84 43 00-0015 CLF 1" x 1" Joint, Intumescent Firestop Sealant ..... <i>For Silicone Sealant (Bio Fireshield BFS 100 or 200), add</i>	1,839.32 175.49	334.70
 <b>07 84 43 00-0016 Passive Smoke And Fire Protection Sealant For Joints (07 84 43)</b>		
07 84 43 00-0017 CLF 1/4" x 1/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	366.77	162.27
07 84 43 00-0018 CLF 1/4" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	408.07	172.42
07 84 43 00-0019 CLF 1/4" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	429.16	172.42
07 84 43 00-0020 CLF 3/8" x 3/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	439.71	172.42
07 84 43 00-0021 CLF 3/8" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	471.34	172.42
07 84 43 00-0022 CLF 3/8" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	523.34	182.58
07 84 43 00-0023 CLF 3/8" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	575.17	192.71
07 84 43 00-0024 CLF 1/2" x 1/2" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	533.88	182.58
07 84 43 00-0025 CLF 1/2" x 5/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	616.61	202.85
07 84 43 00-0026 CLF 1/2" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	679.10	213.01
07 84 43 00-0027 CLF 1/2" x 7/8" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	741.52	223.13
07 84 43 00-0028 CLF 1/2" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	946.10	304.26
07 84 43 00-0029 CLF 3/4" x 3/4" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	1,028.80	324.59
07 84 43 00-0030 CLF 1" x 1" Joint, Non-Halogenated Latex-Based Elastomeric, Passive Smoke And Fire Protection Sealant (STI SpecSeal ES Series) .....	1,344.29	334.70
 <b>07 84 56 Fire Safing (07 84)</b>		
<b>07 84 56 13 Fibrous Fire Safing (07 84 56)</b>		
<b>07 84 56 13-0001 Thermal Barrier Wrap (07 84 56 13)</b>		
<i>Note: Includes cutting wrap to fit pipe or conduit and sealing edges.</i>		
07 84 56 13-0002 SF 1/2" Thick Fire Barrier Plenum Wrap (3M Plenum Wrap 5A) .....	9.42	
<i>For Work In Restricted Working Space, Add</i>		
07 84 56 13-0003 SF 1-1/2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 15A) .....	14.39	
<i>Note: Includes cutting wrap to fit pipe or conduit and sealing edges.</i>		
<i>For Work In Restricted Working Space, Add</i>		
07 84 56 13-0004 SF 2" Thick Fire Barrier Duct Wrap (3M Duct Wrap 20A) .....	15.59	
<i>Note: Includes cutting wrap to fit pipe or conduit and sealing edges.</i>		
<i>For Work In Restricted Working Space, Add</i>		
 <b>07 84 56 13-0005 FireMaster Blanket Wrap Fireproofing (07 84 56 13)</b>		
07 84 56 13-0006 SF 1/2" Thermal Ceramics FireMaster Blanket Wrap .....	16.94	10.25
<i>For Work In Restricted Working Space, Add</i>		
<i>For &gt;500 To 5,000, Deduct</i>		
<i>For &gt;5,000, Deduct</i>		
07 84 56 13-0007 SF 1" Thermal Ceramics FireMaster Blanket Wrap .....	19.59	10.25
<i>For Work In Restricted Working Space, Add</i>		
<i>For &gt;500 To 5,000, Deduct</i>		
<i>For &gt;5,000, Deduct</i>		

**07 Thermal And Moisture Protection****07 80 Fire And Smoke Protection****07 84 Firestopping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 84 56 13-0008	SF	1-1/2"	Thermal Ceramics FireMaster Blanket Wrap.....	22.51	10.25
			<i>For Work In Restricted Working Space, Add</i>	4.12	
			<i>For &gt;500 To 5,000, Deduct</i>	-2.71	
			<i>For &gt;5,000, Deduct</i>	-4.62	
07 84 56 13-0009	SF	2"	Thermal Ceramics FireMaster Blanket Wrap.....	25.43	10.25
			<i>For Work In Restricted Working Space, Add</i>	4.12	
			<i>For &gt;500 To 5,000, Deduct</i>	-3.38	
			<i>For &gt;5,000, Deduct</i>	-5.70	

**07 90 Joint Protection (07)****07 91 Preformed Joint Seals (07 90)****07 91 23 Backer Rods (07 91)****07 91 23 00-0001 Backer Rods (07 91 23)**

07 91 23 00-0002	LF	1/4"	Polyethylene Or Polyurethane Backer Rod.....	1.39	0.43
07 91 23 00-0003	LF	3/8"	Polyethylene Or Polyurethane Backer Rod.....	1.49	0.43
07 91 23 00-0004	LF	1/2"	Polyethylene Or Polyurethane Backer Rod.....	1.60	0.43
07 91 23 00-0005	LF	5/8"	Polyethylene Or Polyurethane Backer Rod.....	1.70	0.43
07 91 23 00-0006	LF	3/4"	Polyethylene Or Polyurethane Backer Rod.....	1.76	0.52
07 91 23 00-0007	LF	7/8"	Polyethylene Or Polyurethane Backer Rod.....	1.86	0.52
07 91 23 00-0008	LF	1"	Polyethylene Or Polyurethane Backer Rod.....	2.04	0.52
07 91 23 00-0009	LF	1-1/4"	Polyethylene Or Polyurethane Backer Rod.....	2.23	0.60
07 91 23 00-0010	LF	1-1/2"	Polyethylene Or Polyurethane Backer Rod.....	2.49	0.69
07 91 23 00-0011	LF	2"	Polyethylene Or Polyurethane Backer Rod.....	2.90	0.77
07 91 23 00-0012	LF	3"	Polyethylene Or Polyurethane Backer Rod.....	4.30	0.95

**07 91 26 Joint Fillers (07 91)****07 91 26 00-0001 Butyl Rubber Fillers (07 91 26)**

07 91 26 00-0002	LF	1/4" x 1/4"	Butyl Rubber Filler.....	1.73	0.52
			<i>For Coloring, Add</i>	0.00	
07 91 26 00-0003	LF	1/2" x 1/2"	Butyl Rubber Filler.....	4.95	1.47
			<i>For Coloring, Add</i>	0.02	
07 91 26 00-0004	LF	1/2" x 3/4"	Butyl Rubber Filler.....	5.64	1.56
			<i>For Coloring, Add</i>	0.03	
07 91 26 00-0005	LF	3/4" x 3/4"	Butyl Rubber Filler.....	5.73	1.65
07 91 26 00-0006	LF	1" x 1"	Butyl Rubber Filler.....	6.65	3.02

**07 91 26 00-0007 Closed Cell Neoprene (07 91 26)**

07 91 26 00-0008	CLF	1/8" x 3"	Neoprene Gasket Closed Cell, Adhesive.....	346.32	99.71
07 91 26 00-0009	CLF	1/8" x 6"	Neoprene Gasket Closed Cell, Adhesive.....	563.92	144.05
07 91 26 00-0010	CLF	1/4" x 3"	Neoprene Gasket Closed Cell, Adhesive.....	446.42	123.48
07 91 26 00-0011	CLF	1/4" x 6"	Neoprene Gasket Closed Cell, Adhesive.....	520.57	129.61
07 91 26 00-0012	CLF	1/2" x 6"	Neoprene Gasket Closed Cell, Adhesive.....	793.88	199.43
07 91 26 00-0013	CLF	1/2" x 9"	Neoprene Gasket Closed Cell, Adhesive.....	914.23	216.03
07 91 26 00-0014	CLF	1/2" x 12"	Neoprene Gasket Closed Cell, Adhesive.....	846.61	157.10

**07 91 26 00-0015 Closed Cell Polyvinyl Chloride (07 91 26)**

07 91 26 00-0016	CLF	1/8" x 3"	Polyethylene Joint Backing, Closed Cell.....	357.32	123.48
07 91 26 00-0017	CLF	1/8" x 6"	Polyethylene Joint Backing, Closed Cell.....	629.94	199.43
07 91 26 00-0018	CLF	1/4" x 3"	Polyethylene Joint Backing, Closed Cell.....	474.53	170.23
07 91 26 00-0019	CLF	1/4" x 6"	Polyethylene Joint Backing, Closed Cell.....	590.25	179.73
07 91 26 00-0020	CLF	1/2" x 6"	Polyethylene Joint Backing, Closed Cell.....	897.18	275.65
07 91 26 00-0021	CLF	1/2" x 9"	Polyethylene Joint Backing, Closed Cell.....	1,067.04	299.15
07 91 26 00-0022	CLF	1/2" x 12"	Polyethylene Joint Backing, Closed Cell.....	1,440.05	358.60

**07 91 26 00-0023 Silicon RTV Foam Penetration Seal (07 91 26)**

07 91 26 00-0024	CLF	1/4" x 1/2"	Silicon RTV Foam Seal.....	128.71	19.78
07 91 26 00-0025	CLF	1/2" x 1/2"	Silicon RTV Foam Seal.....	257.43	39.49
07 91 26 00-0026	CLF	1/2" x 3/4"	Silicon RTV Foam Seal.....	383.93	58.67
07 91 26 00-0027	CLF	3/4" x 3/4"	Silicon RTV Foam Seal.....	546.33	79.07
07 91 26 00-0028	CLF	1/8" x 1"	Silicon RTV Foam Seal.....	128.71	19.78
07 91 26 00-0029	CLF	1/8" x 3"	Silicon RTV Foam Seal.....	383.58	58.50
07 91 26 00-0030	CLF	1/4" x 3"	Silicon RTV Foam Seal.....	669.88	87.88
07 91 26 00-0031	CLF	1/4" x 6"	Silicon RTV Foam Seal.....	1,338.25	175.15
07 91 26 00-0032	CLF	1/2" x 6"	Silicon RTV Foam Seal.....	2,557.45	316.17
07 91 26 00-0033	CLF	1/2" x 9"	Silicon RTV Foam Seal.....	3,899.73	493.91
07 91 26 00-0034	CLF	1/2" x 12"	Silicon RTV Foam Seal.....	5,651.97	790.30

**07 91 26 00-0035 Seals O-Ring Type Cord "J-Seal" (07 91 26)**

07 91 26 00-0036	LF	1/4"	Seals O-Ring Cord, J-Seal.....	3.69	1.12
07 91 26 00-0037	LF	1/2"	Seals O-Ring Cord, J-Seal.....	3.91	1.12
07 91 26 00-0038	LF	3/4"	Seals O-Ring Cord, J-Seal.....	4.13	1.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91 26 00-0039 LF 1" Seals O-Ring Cord, J-Seal .....	4.36	1.29
07 91 26 00-0040 LF 1-1/4" Seals O-Ring Cord, J-Seal .....	4.68	1.39
07 91 26 00-0041 LF 1-1/2" Seals O-Ring Cord, J-Seal .....	4.90	1.39
07 91 26 00-0042 LF 1-3/4" Seals O-Ring Cord, J-Seal .....	5.20	1.47
07 91 26 00-0043 LF 2" Seals O-Ring Cord, J-Seal .....	5.38	1.47
 <b>07 91 33 Expansion Joint Seal Systems (07 91)</b>		
<b>07 91 33 00-0001 Expansion Joint Seal Systems (Wabo®) (07 91 33)</b>		
<b>07 91 33 00-0002 Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® HSeal) (07 91 33 00-0001)</b>		
Note: Includes a pre-compressed seal, epoxy adhesive and traffic grade elastomeric top coating.		
07 91 33 00-0003 LF 1/2" Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 25EH) .....	58.14	6.44
07 91 33 00-0004 LF 3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 40EH) .....	75.79	6.74
07 91 33 00-0005 LF 1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 50EH) .....	94.39	7.05
07 91 33 00-0006 LF 1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 65EH) .....	115.07	7.35
07 91 33 00-0007 LF 1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 75EH) .....	147.29	7.66
07 91 33 00-0008 LF 1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 90EH) .....	168.30	7.97
07 91 33 00-0009 LF 2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® HSeal 100EH) .....	194.28	8.27
 <b>07 91 33 00-0010 Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001)</b>		
Note: Includes preformed neoprene joint seal and lubricant adhesive.		
07 91 33 00-0011 LF 0.625" Minimum, 1.381" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-162) .....	33.05	6.44
07 91 33 00-0012 LF 0.688" Minimum, 1.488" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-175) .....	35.54	6.53
07 91 33 00-0013 LF 0.875" Minimum, 1.700" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-200) .....	41.63	6.62
07 91 33 00-0014 LF 0.953" Minimum, 1.913" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-225) .....	43.88	6.74
07 91 33 00-0015 LF 1.000" Minimum, 2.125" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-250) .....	46.51	6.83
07 91 33 00-0016 LF 1.125" Minimum, 2.550" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-300) .....	55.48	6.92
07 91 33 00-0017 LF 1.375" Minimum, 2.975" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-350) .....	66.85	7.05
07 91 33 00-0018 LF 1.625" Minimum, 3.400" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-400) .....	78.05	7.35
07 91 33 00-0019 LF 1.687" Minimum, 4.250" Maximum Joint Opening, Neoprene, Preformed Elastomeric Horizontal Expansion Joint Seal System (Wabo® CompressionSeal WA-500) .....	87.67	7.66
 <b>07 91 33 00-0020 Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal Systems (Wabo® CompressionSeal) (07 91 33 00-0001)</b>		
Note: Includes preformed Santoprene® joint seal and lubricant adhesive.		
07 91 33 00-0021 LF 0.500" Minimum, 1.500" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-100) .....	28.77	6.44
07 91 33 00-0022 LF 0.688" Minimum, 1.938" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-225) .....	35.68	6.74
07 91 33 00-0023 LF 1.063" Minimum, 2.125" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-250) .....	42.47	7.05
07 91 33 00-0024 LF 1.250" Minimum, 2.563" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-300) .....	44.61	7.20
07 91 33 00-0025 LF 1.250" Minimum, 3.375" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-400) .....	48.82	7.35
07 91 33 00-0026 LF 1.438" Minimum, 4.250" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-500) .....	66.98	7.66
07 91 33 00-0027 LF 1.813" Minimum, 5.125" Maximum Joint Opening, Santoprene®, Preformed Elastomeric Vertical Expansion Joint Seal System (Wabo® CompressionSeal WE-600) .....	89.38	7.97
 <b>07 91 33 00-0028 Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal Systems (Wabo® Seismic WeatherSeal) (07 91 33 00-0001)</b>		
Note: Includes a pre-compressed foam seal and silicone sealant.		
07 91 33 00-0029 LF 1/2" Minimum, 1-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-100) .....	20.58	2.55
07 91 33 00-0030 LF 3/4" Minimum, 2-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-150) .....	33.50	2.65
07 91 33 00-0031 LF 1" Minimum, 3" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-200) .....	49.66	2.75

**07 Thermal And Moisture Protection****07 90 Joint Protection****07 91 Prefomed Joint Seals**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 91 33 00-0032	LF	1-1/4" Minimum, 3-3/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-250).....	62.23	2.85
07 91 33 00-0033	LF	1-1/2" Minimum, 4-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-300).....	81.38	2.97
07 91 33 00-0034	LF	1-3/4" Minimum, 5-1/4" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-350).....	107.11	3.07
07 91 33 00-0035	LF	2" Minimum, 6" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-400).....	131.01	3.17
07 91 33 00-0036	LF	2-1/2" Minimum, 7-1/2" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-500).....	176.06	3.27
07 91 33 00-0037	LF	3" Minimum, 9" Maximum Joint Opening, Coated Foam, Pre-Compressed, Elastomeric Expansion Joint Seal System (Wabo® Seismic WeatherSeal SWS-600).....	205.26	3.37
<b>07 91 33 00-0038</b>		<b>Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal Systems (Wabo® WeatherSeal II) (07 91 33 00-0001)</b>		
		Note: Includes a pre-compressed foam seal and silicone sealant.		
07 91 33 00-0039	LF	0.75" Minimum, 1.25" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-100).....	20.12	2.55
07 91 33 00-0040	LF	1.13" Minimum, 1.88" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-150).....	26.11	2.65
07 91 33 00-0041	LF	1.50" Minimum, 2.50" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-200).....	34.52	2.75
07 91 33 00-0042	LF	1.88" Minimum, 3.13" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-250).....	46.28	2.85
07 91 33 00-0043	LF	2.25" Minimum, 3.75" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-300).....	52.60	2.97
07 91 33 00-0044	LF	2.63" Minimum, 4.38" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-350).....	72.33	3.07
07 91 33 00-0045	LF	3.00" Minimum, 5.00" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-400).....	96.58	3.17
07 91 33 00-0046	LF	3.75" Minimum, 6.25" Maximum Joint Opening, Silicone Faced Foam, Prefomed Elastomeric Expansion Joint Seal System (Wabo® WeatherSeal II WS-500).....	104.18	3.27
<b>07 92 Joint Sealants (07 90)</b>				
<b>07 92 13 Elastomeric Joint Sealants (07 92)</b>				
<b>07 92 13 00-0001 Silicone Sealant And Caulking (07 92 13)</b>				
07 92 13 00-0002	CLF	1/4" x 1/4" Joint, Silicone Sealant And Caulking.....	365.92	162.28
		For Coloring, Add	14.89	
		For 1 Part Mildew Resistant, Add	14.47	
		For High-Modulus Non-Acid Curing, Add	8.27	
07 92 13 00-0003	CLF	1/4" x 3/8" Joint, Silicone Sealant And Caulking.....	396.74	167.36
		For Coloring, Add	22.33	
		For 1 Part Mildew Resistant, Add	21.71	
		For High-Modulus Non-Acid Curing, Add	12.41	
07 92 13 00-0004	CLF	1/4" x 1/2" Joint, Silicone Sealant And Caulking.....	427.50	172.42
		For Coloring, Add	29.77	
		For 1 Part Mildew Resistant, Add	28.95	
		For High-Modulus Non-Acid Curing, Add	16.54	
07 92 13 00-0005	CLF	3/8" x 3/8" Joint, Silicone Sealant And Caulking.....	437.84	172.42
		For Coloring, Add	33.49	
		For 1 Part Mildew Resistant, Add	32.56	
		For High-Modulus Non-Acid Curing, Add	18.61	
07 92 13 00-0006	CLF	3/8" x 1/2" Joint, Silicone Sealant And Caulking.....	479.09	177.50
		For Coloring, Add	44.66	
		For 1 Part Mildew Resistant, Add	43.42	
		For High-Modulus Non-Acid Curing, Add	24.81	
07 92 13 00-0007	CLF	3/8" x 5/8" Joint, Silicone Sealant And Caulking.....	520.22	182.58
		For Coloring, Add	55.82	
		For 1 Part Mildew Resistant, Add	54.27	
		For High-Modulus Non-Acid Curing, Add	31.01	
07 92 13 00-0008	CLF	3/8" x 3/4" Joint, Silicone Sealant And Caulking.....	571.44	192.71
		For Coloring, Add	66.99	
		For 1 Part Mildew Resistant, Add	65.13	
		For High-Modulus Non-Acid Curing, Add	37.22	
07 92 13 00-0009	CLF	1/2" x 1/2" Joint, Silicone Sealant And Caulking.....	530.56	182.58
		For Coloring, Add	59.54	
		For 1 Part Mildew Resistant, Add	57.89	
		For High-Modulus Non-Acid Curing, Add	33.08	
07 92 13 00-0010	CLF	1/2" x 5/8" Joint, Silicone Sealant And Caulking.....	612.46	202.85
		For Coloring, Add	74.43	
		For 1 Part Mildew Resistant, Add	72.36	
		For High-Modulus Non-Acid Curing, Add	41.35	
07 92 13 00-0011	CLF	1/2" x 3/4" Joint, Silicone Sealant And Caulking.....	674.12	213.01
		For Coloring, Add	89.32	
		For 1 Part Mildew Resistant, Add	86.84	
		For High-Modulus Non-Acid Curing, Add	49.62	
07 92 13 00-0012	CLF	1/2" x 7/8" Joint, Silicone Sealant And Caulking.....	735.71	223.13
		For Coloring, Add	104.20	
		For 1 Part Mildew Resistant, Add	101.31	
		For High-Modulus Non-Acid Curing, Add	57.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0013 CLF 1/2" x 1" Joint, Silicone Sealant And Caulking..... <i>For Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	787.19 119.09 115.78 66.16	228.20
07 92 13 00-0014 CLF 3/4" x 3/4" Joint, Silicone Sealant And Caulking..... <i>For Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	838.78 133.97 130.25 74.43	233.27
07 92 13 00-0015 CLF 1" x 1" Joint, Silicone Sealant And Caulking..... <i>For Coloring, Add</i> <i>For 1 Part Mildew Resistant, Add</i> <i>For High-Modulus Non-Acid Curing, Add</i>	1,168.75 238.18 231.56 132.32	253.57
<b>07 92 13 00-0016 Acrylic/Latex Sealant And Caulking (07 92 13)</b>		
07 92 13 00-0017 CLF 1/4" x 1/4" Joint, Acrylic/Latex Sealant And Caulking .....	345.72	162.27
07 92 13 00-0018 CLF 1/4" x 3/8" Joint, Acrylic/Latex Sealant And Caulking .....	366.39	167.35
07 92 13 00-0019 CLF 1/4" x 1/2" Joint, Acrylic/Latex Sealant And Caulking .....	387.05	172.42
07 92 13 00-0020 CLF 3/8" x 3/8" Joint, Acrylic/Latex Sealant And Caulking .....	392.33	172.42
07 92 13 00-0021 CLF 3/8" x 1/2" Joint, Acrylic/Latex Sealant And Caulking .....	418.42	177.50
07 92 13 00-0022 CLF 3/8" x 5/8" Joint, Acrylic/Latex Sealant And Caulking .....	444.38	182.58
07 92 13 00-0023 CLF 3/8" x 3/4" Joint, Acrylic/Latex Sealant And Caulking .....	480.42	192.71
07 92 13 00-0024 CLF 1/2" x 1/2" Joint, Acrylic/Latex Sealant And Caulking .....	449.66	182.58
07 92 13 00-0025 CLF 1/2" x 5/8" Joint, Acrylic/Latex Sealant And Caulking .....	511.34	202.85
07 92 13 00-0026 CLF 1/2" x 3/4" Joint, Acrylic/Latex Sealant And Caulking .....	552.77	213.01
07 92 13 00-0027 CLF 1/2" x 7/8" Joint, Acrylic/Latex Sealant And Caulking .....	594.14	223.13
07 92 13 00-0028 CLF 1/2" x 1" Joint, Acrylic/Latex Sealant And Caulking .....	625.39	228.20
07 92 13 00-0029 CLF 3/4" x 3/4" Joint, Acrylic/Latex Sealant And Caulking .....	656.76	233.27
07 92 13 00-0030 CLF 1" x 1" Joint, Acrylic/Latex Sealant And Caulking .....	845.14	253.57
<b>07 92 13 00-0031 Polyurethane Sealant And Caulking (07 92 13)</b>		
Note: 1 or 2 part, non-sag.		
07 92 13 00-0032 CLF 1/4" x 1/4" Joint, Polyurethane Sealant And Caulking .....	356.30	162.27
07 92 13 00-0033 CLF 1/4" x 3/8" Joint, Polyurethane Sealant And Caulking .....	382.27	168.37
07 92 13 00-0034 CLF 1/4" x 1/2" Joint, Polyurethane Sealant And Caulking .....	408.23	172.42
07 92 13 00-0035 CLF 3/8" x 3/8" Joint, Polyurethane Sealant And Caulking .....	416.16	172.42
07 92 13 00-0036 CLF 3/8" x 1/2" Joint, Polyurethane Sealant And Caulking .....	450.18	177.50
07 92 13 00-0037 CLF 3/8" x 5/8" Joint, Polyurethane Sealant And Caulking .....	484.09	182.58
07 92 13 00-0038 CLF 3/8" x 3/4" Joint, Polyurethane Sealant And Caulking .....	528.07	192.71
07 92 13 00-0039 CLF 1/2" x 1/2" Joint, Polyurethane Sealant And Caulking .....	492.02	182.58
07 92 13 00-0040 CLF 1/2" x 5/8" Joint, Polyurethane Sealant And Caulking .....	564.28	202.85
07 92 13 00-0041 CLF 1/2" x 3/4" Joint, Polyurethane Sealant And Caulking .....	616.31	213.01
07 92 13 00-0042 CLF 1/2" x 7/8" Joint, Polyurethane Sealant And Caulking .....	668.26	223.13
07 92 13 00-0043 CLF 1/2" x 1" Joint, Polyurethane Sealant And Caulking .....	710.11	228.20
07 92 13 00-0044 CLF 3/4" x 3/4" Joint, Polyurethane Sealant And Caulking .....	752.06	233.27
07 92 13 00-0045 CLF 3/4" x 1" Joint, Polyurethane Sealant And Caulking .....	887.71	253.57
<b>07 92 13 00-0046 Flexible Polysulfide Sealant And Caulking, Clear (07 92 13)</b>		
Note: 1 or 2 part, non-sag.		
07 92 13 00-0047 CLF 1/4" x 1/4" Joint, Polysulfide Sealant And Caulking .....	359.31	162.27
07 92 13 00-0048 CLF 1/4" x 3/8" Joint, Polysulfide Sealant And Caulking .....	386.80	169.39
07 92 13 00-0049 CLF 1/4" x 1/2" Joint, Polysulfide Sealant And Caulking .....	414.26	172.42
07 92 13 00-0050 CLF 3/8" x 3/8" Joint, Polysulfide Sealant And Caulking .....	422.94	172.42
07 92 13 00-0051 CLF 3/8" x 1/2" Joint, Polysulfide Sealant And Caulking .....	459.24	177.50
07 92 13 00-0052 CLF 3/8" x 5/8" Joint, Polysulfide Sealant And Caulking .....	495.41	182.58
07 92 13 00-0053 CLF 3/8" x 3/4" Joint, Polysulfide Sealant And Caulking .....	541.65	192.71
07 92 13 00-0054 CLF 1/2" x 1/2" Joint, Polysulfide Sealant And Caulking .....	504.09	182.58
07 92 13 00-0055 CLF 1/2" x 5/8" Joint, Polysulfide Sealant And Caulking .....	579.38	202.85
07 92 13 00-0056 CLF 1/2" x 3/4" Joint, Polysulfide Sealant And Caulking .....	634.41	213.01
07 92 13 00-0057 CLF 1/2" x 7/8" Joint, Polysulfide Sealant And Caulking .....	689.39	223.13
07 92 13 00-0058 CLF 1/2" x 1" Joint, Polysulfide Sealant And Caulking .....	734.24	228.20
07 92 13 00-0059 CLF 3/4" x 3/4" Joint, Polysulfide Sealant And Caulking .....	779.22	233.27
07 92 13 00-0060 CLF 3/4" x 1" Joint, Polysulfide Sealant And Caulking .....	923.92	253.57
<b>07 92 13 00-0061 Flexible Polyurethane Security Sealant And Caulking (07 92 13)</b>		
Note: 1 or 2 part, non-sag.		
07 92 13 00-0062 CLF 1/4" x 1/4" Joint, Flexible Polyurethane Security Sealant And Caulking .....	366.68	162.27
07 92 13 00-0063 CLF 1/4" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking .....	397.84	168.37
07 92 13 00-0064 CLF 1/4" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking .....	428.98	172.42
07 92 13 00-0065 CLF 3/8" x 3/8" Joint, Flexible Polyurethane Security Sealant And Caulking .....	439.51	172.42
07 92 13 00-0066 CLF 3/8" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking .....	481.31	177.50
07 92 13 00-0067 CLF 3/8" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking .....	523.00	182.58
07 92 13 00-0068 CLF 3/8" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking .....	574.77	192.71
07 92 13 00-0069 CLF 1/2" x 1/2" Joint, Flexible Polyurethane Security Sealant And Caulking .....	533.53	182.58
07 92 13 00-0070 CLF 1/2" x 5/8" Joint, Flexible Polyurethane Security Sealant And Caulking .....	616.17	202.85
07 92 13 00-0071 CLF 1/2" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking .....	678.57	213.01
07 92 13 00-0072 CLF 1/2" x 7/8" Joint, Flexible Polyurethane Security Sealant And Caulking .....	740.90	223.13
07 92 13 00-0073 CLF 1/2" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking .....	793.12	228.20
07 92 13 00-0074 CLF 3/4" x 3/4" Joint, Flexible Polyurethane Security Sealant And Caulking .....	845.45	233.27

**07 Thermal And Moisture Protection****07 90 Joint Protection****07 92 Joint Sealants**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 92 13 00-0075 CLF 3/4" x 1" Joint, Flexible Polyurethane Security Sealant And Caulking .....	1,012.24	253.57
<b>07 92 19 Acoustical Joint Sealants (07 92)</b>		
<b>07 92 19 00-0001 Acoustical Sealant (07 92 19)</b>		
07 92 19 00-0002 CLF 1/4" x 1/4" Joint, Acoustical Sealant.....	331.38	152.15
For Coloring, Add	9.76	
For 1 Part Mildew Resistant, Add	9.49	
For High-Modulus Non-Acid Curing, Add	5.42	
07 92 19 00-0003 CLF 1/4" x 3/8" Joint, Acoustical Sealant.....	362.01	162.27
For Coloring, Add	13.47	
For 1 Part Mildew Resistant, Add	13.10	
For High-Modulus Non-Acid Curing, Add	7.48	
07 92 19 00-0004 CLF 1/4" x 1/2" Joint, Acoustical Sealant.....	388.29	172.42
For Coloring, Add	15.66	
For 1 Part Mildew Resistant, Add	15.22	
For High-Modulus Non-Acid Curing, Add	8.70	
07 92 19 00-0005 CLF 3/8" x 3/8" Joint, Acoustical Sealant.....	405.14	172.42
For Coloring, Add	21.72	
For 1 Part Mildew Resistant, Add	21.12	
For High-Modulus Non-Acid Curing, Add	12.07	
07 92 19 00-0006 CLF 3/8" x 1/2" Joint, Acoustical Sealant.....	432.90	177.50
For Coloring, Add	28.03	
For 1 Part Mildew Resistant, Add	27.25	
For High-Modulus Non-Acid Curing, Add	15.57	
07 92 19 00-0007 CLF 1/2" x 1/2" Joint, Acoustical Sealant.....	474.88	182.58
For Coloring, Add	39.50	
For 1 Part Mildew Resistant, Add	38.40	
For High-Modulus Non-Acid Curing, Add	21.94	
<b>07 95 Expansion Control (07 90)</b>		
<b>07 95 13 Expansion Joint Cover Assemblies (07 95)</b>		
Note: Includes necessary waterproofing mastics/caulking.		
<b>07 95 13 13 Interior Expansion Joint Cover Assemblies (07 95 13)</b>		
<b>07 95 13 13-0001 Interior Floor Expansion Joint Cover Assemblies (07 95 13 13)</b>		
<b>07 95 13 13-0002 With 1" Space (07 95 13 13-0001)</b>		
07 95 13 13-0003 LF Aluminum Expansion Joint Cover, 1" Opening Floor Assembly Type.....	48.66	5.14
07 95 13 13-0004 LF Bronze Expansion Joint Cover, 1" Opening Floor Assembly Type .....	53.12	5.14
07 95 13 13-0005 LF Stainless Steel Expansion Joint Cover, 1" Opening Floor Assembly Type .....	71.87	5.14
<b>07 95 13 13-0006 With 2" Space (07 95 13 13-0001)</b>		
07 95 13 13-0007 LF Aluminum Expansion Joint Cover, 2" Opening Floor Assembly Type.....	61.71	5.14
07 95 13 13-0008 LF Bronze Expansion Joint Cover, 2" Opening Floor Assembly Type .....	63.30	5.14
07 95 13 13-0009 LF Stainless Steel Expansion Joint Cover, 2" Opening Floor Assembly Type .....	96.52	5.14
<b>07 95 13 13-0010 Interior Ceiling And Wall Expansion Joint Cover Assemblies (07 95 13 13)</b>		
<b>07 95 13 13-0011 With 1" Space (07 95 13 13-0010)</b>		
07 95 13 13-0012 LF Aluminum Expansion Joint Cover, 1" Opening Ceiling And Wall Assembly Type.....	35.62	5.14
07 95 13 13-0013 LF Bronze Expansion Joint Cover, 1" Opening Ceiling And Wall Assembly Type .....	42.94	5.14
07 95 13 13-0014 LF Stainless Steel Expansion Joint Cover, 1" Opening Ceiling And Wall Assembly Type .....	59.55	5.14
<b>07 95 13 13-0015 With 2" Space (07 95 13 13-0010)</b>		
07 95 13 13-0016 LF Aluminum Expansion Joint Cover, 2" Opening Ceiling And Wall Assembly Type.....	43.45	5.14
07 95 13 13-0017 LF Bronze Expansion Joint Cover, 2" Opening Ceiling And Wall Assembly Type .....	48.02	5.14
07 95 13 13-0018 LF Stainless Steel Expansion Joint Cover, 2" Opening Ceiling And Wall Assembly Type .....	71.87	5.14
<b>07 95 13 16 Exterior Expansion Joint Cover Assemblies (07 95 13)</b>		
<b>07 95 13 16-0001 Exterior Roof Aluminum Expansion Joint Cover Assemblies (07 95 13 16)</b>		
<b>07 95 13 16-0002 Roof To Roof (07 95 13 16-0001)</b>		
07 95 13 16-0003 LF Exterior Roof To Roof Expansion Joint, 1" Opening Aluminum Assemblies .....	56.89	3.43
07 95 13 16-0004 LF Exterior Roof To Roof Expansion Joint, 2" Opening Aluminum Assemblies .....	67.87	3.43
07 95 13 16-0005 LF Exterior Roof To Roof Expansion Joint, 3" Opening Aluminum Assemblies .....	75.44	3.43
<b>07 95 13 16-0006 Roof To Wall (07 95 13 16-0001)</b>		
07 95 13 16-0007 LF Exterior Roof To Wall Expansion Joint, 1" Opening Aluminum Assemblies.....	43.61	3.43
07 95 13 16-0008 LF Exterior Roof To Wall Expansion Joint, 2" Opening Aluminum Assemblies.....	57.05	3.43
<b>07 95 13 16-0009 Flat Wall To Wall (07 95 13 16-0001)</b>		





<b>Thermal And Moisture Protection</b>		<b>07</b>
Joint Protection		07 90
Expansion Control		07 95

07

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
07 95 13 16-0010 LF Exterior Wall To Wall Expansion Joint, 1" Opening Aluminum Assemblies .....	33.11	3.43
07 95 13 16-0011 LF Exterior Wall To Wall Expansion Joint, 2" Opening Aluminum Assemblies .....	41.17	3.43
07 95 13 16-0012 LF Exterior Wall To Wall Expansion Joint, 3" Opening Aluminum Assemblies .....	50.91	3.43
<b>07 95 13 16-0013</b> <b>Corner To Flat Wall</b> <small>(07 95 13 16-0001)</small>		
07 95 13 16-0014 LF Exterior Corner To Wall Expansion Joint, 1" Opening Aluminum Assemblies .....	31.72	3.43
07 95 13 16-0015 LF Exterior Corner To Wall Expansion Joint, 2" Opening Aluminum Assemblies .....	37.10	3.43
07 95 13 16-0016 LF Exterior Corner To Wall Expansion Joint, 3" Opening Aluminum Assemblies .....	52.21	3.43

**END OF SECTION 07**

07

**07 Thermal And Moisture Protection**

07 90 Joint Protection

07 95 Expansion Control



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

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MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 08 Openings

### 08 01 Operation And Maintenance Of Openings <sup>(08)</sup>

#### 08 01 10 Operation And Maintenance Of Doors And Frames <sup>(08 01)</sup>

##### 08 01 11 Operation and Maintenance of Metal Doors and Frames <sup>(08 01 10)</sup>

##### 08 01 11 61 Metal Doors And Frames Repair <sup>(08 01 11)</sup>

##### 08 01 11 61-0001 Hollow Metal Door Repair <sup>(08 01 11 61)</sup>

Note: Repairs are based on holes or damage of less than 1/2 of a square foot.

08 01 11 61-0002	SF	Patch Small Drill Holes .....	6.94
08 01 11 61-0003	LF	Patch Deep Scrapes Or Cuts In Doors .....	34.69
08 01 11 61-0004	IN	Patch Holes Larger Than Normal Drill Holes (By Diameter Of Holes) .....	10.41

#### 08 01 50 Operation And Maintenance Of Windows <sup>(08 01)</sup>

##### 08 01 52 Operation and Maintenance of Wood Windows <sup>(08 01 50)</sup>

##### 08 01 52 61 Wood Window Repairs <sup>(08 01 52)</sup>

##### 08 01 52 61-0001 Window Restoration And Replacement <sup>(08 01 52 61)</sup>

08 01 52 61-0002	EA	Removal And Replacement Of Sash Guides .....	10.94
08 01 52 61-0003	EA	Removal And Replacement Of Window Arms .....	29.84
08 01 52 61-0004	EA	Removal And Replacement Of Window Crank Operator .....	32.48
08 01 52 61-0005	EA	Removal And Replacement Of Brass Window Sash Pull .....	20.55
08 01 52 61-0006	EA	Removal And Replacement Of Brass Window Sash Lock .....	19.04
08 01 52 61-0007	EA	Removal And Replacement Of Window Balance, Removable Sash Window .....	22.86
Note: Channel, spiral or coil balance.			
08 01 52 61-0008	EA	Removal And Replacement Of Window Balance, Sash Window Including The Removal And Replacement Of Wooden Stops And/Or Casing .....	73.59
Note: Channel, spiral or coil balance.			
For Replacing Two Balances In One Window, Deduct			-28.00

#### 08 01 80 Maintenance of Glazing <sup>(08 01)</sup>

##### 08 01 81 Maintenance of Glass Glazing <sup>(08 01 80)</sup>

##### 08 01 81 00-0001 Glazing Compound Repair <sup>(08 01 81)</sup>

08 01 81 00-0002	LF	Removal And Replacement Of Up To 1/2" Wide Damaged, Broken Or Cracked Window Glazing .....	4.53
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## 08 05 Common Work Results For Openings <sup>(08)</sup>

### 08 05 13 Door Options And Modifications <sup>(08 05)</sup>

Note: Excludes removal and reinstallation of door.

#### 08 05 13 00-0001 Door Vision Panels (Pemko LT-S1) <sup>(08 05 13)</sup>

Note: Factory primed or powder coated.

08 05 13 00-0002	EA	For Up To 1 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	77.91
For 9/16" To 1-1/16" Glazing Pocket, Add			38.96
08 05 13 00-0003	EA	For >1 To 2 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	98.62
For 9/16" To 1-1/16" Glazing Pocket, Add			49.31
08 05 13 00-0004	EA	For >2 To 4 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	114.40
For 9/16" To 1-1/16" Glazing Pocket, Add			57.20
08 05 13 00-0005	EA	For >4 To 6 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	145.96
For 9/16" To 1-1/16" Glazing Pocket, Add			72.98
08 05 13 00-0006	EA	For >6 To 8 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	189.35
For 9/16" To 1-1/16" Glazing Pocket, Add			94.68
08 05 13 00-0007	EA	For >8 To 10 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	241.62
For 9/16" To 1-1/16" Glazing Pocket, Add			120.81
08 05 13 00-0008	EA	For >10 SF, Factory Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	256.41
For 9/16" To 1-1/16" Glazing Pocket, Add			128.21
08 05 13 00-0009	EA	For Up To 1 SF, Site Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	172.29
For 9/16" To 1-1/16" Glazing Pocket, Add			35.42
08 05 13 00-0010	EA	For >1 To 2 SF, Site Installed 20 Gauge Galvannealed Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	201.27
For 9/16" To 1-1/16" Glazing Pocket, Add			44.83

**08 Openings****08 05 Common Work Results For Openings****08 05 13 Door Options And Modifications**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 05 13 00-0011	EA		For >2 To 4 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	225.75	
			For 9/16" To 1-1/16" Glazing Pocket, Add .....	52.00	
08 05 13 00-0012	EA		For >4 To 6 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	264.59	
			For 9/16" To 1-1/16" Glazing Pocket, Add .....	66.35	
08 05 13 00-0013	EA		For >6 To 8 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	314.19	
			For 9/16" To 1-1/16" Glazing Pocket, Add .....	86.07	
08 05 13 00-0014	EA		For >8 To 10 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	371.84	
			For 9/16" To 1-1/16" Glazing Pocket, Add .....	109.83	
08 05 13 00-0015	EA		For >10 SF, Site Installed 20 Gauge Galvanized Steel Frame With 3/8" Glazing Pocket For Vision Glass In Door, Add .....	395.43	
			For 9/16" To 1-1/16" Glazing Pocket, Add .....	116.55	
<b>08 05 13 00-0016</b>			<b>Door Louvers, Inverted "Y" 50% Free Air (Pemko LV-1Y) (08 05 13)</b>		
			Note: Factory primed or powder coated.		
08 05 13 00-0017	EA		For Up To 1 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	96.65	
08 05 13 00-0018	EA		For >1 To 2 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	108.48	
08 05 13 00-0019	EA		For >2 To 4 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	143.99	
08 05 13 00-0020	EA		For >4 To 6 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	228.80	
08 05 13 00-0021	EA		For >6 To 8 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	302.76	
08 05 13 00-0022	EA		For >8 To 10 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	376.73	
08 05 13 00-0023	EA		For >10 SF, Factory Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	429.00	
08 05 13 00-0024	EA		For Up To 1 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	172.75	
08 05 13 00-0025	EA		For >1 To 2 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	192.18	
08 05 13 00-0026	EA		For >2 To 4 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	235.30	
08 05 13 00-0027	EA		For >4 To 6 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	327.72	
08 05 13 00-0028	EA		For >6 To 8 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	409.29	
08 05 13 00-0029	EA		For >8 To 10 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	490.87	
08 05 13 00-0030	EA		For >10 SF, Site Installed 20 Gauge Galvanized Inverted "Y" Blades, 18 Gauge Galvanized Frame Louver In Door, Add .....	550.75	
<b>08 05 13 00-0031</b>			<b>Door Hardware Preparation (08 05 13)</b>		
08 05 13 00-0032	EA		Factory Prepare Wood Door (Rated Or Non Rated) For Mortise Lockset Hardware .....	76.08	
08 05 13 00-0033	EA		Prepare Existing Wood Door (Rated) For Mortise Lockset Hardware .....	187.64	
			Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0034	EA		Prepare Existing Wood Door (Non Rated) For Mortise Lockset Hardware .....	86.22	
08 05 13 00-0035	EA		Prepare Existing Wood Door (Rated) For Cylindrical Lockset Hardware .....	152.15	
			Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0036	EA		Prepare Existing Wood Door (Non Rated) For Cylindrical Lockset Hardware .....	25.35	
08 05 13 00-0037	EA		Prepare Existing Wood Door (Rated) For Concealed Vertical Rod .....	278.96	
			Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0038	EA		Prepare Existing Wood Door (Non Rated) For Concealed Vertical Rod .....	177.50	
08 05 13 00-0039	EA		Prepare Existing Wood Door (Rated) For Electric Hardware .....	187.64	
			Note: Requires door to be taken off site for UL certification.		
08 05 13 00-0040	EA		Prepare Existing Door (Non Rated) For Electric Hardware .....	86.22	
<b>08 05 13 00-0041</b>			<b>Door Modifications (08 05 13)</b>		
08 05 13 00-0042	EA		For Factory Installed Sound Proofing (STC 28) In Metal Door, Add .....	104.24	
08 05 13 00-0043	SF		For 16 Gauge Steel Metal Plate Bolted On Door .....	22.17	
			Note: Includes mounting hardware.		
08 05 13 00-0044	EA		Trim Bottom Of Existing Steel Door For Installation Of Carpet Or Tile .....	91.31	
			Note: Excludes removal and reinstallation of door.		
08 05 13 00-0045	EA		Trim Bottom Of Existing Wood Door For Installation Of Carpet Or Tile .....	45.96	
			Note: Excludes removal and reinstallation of door.		
08 05 13 00-0046	EA		Modify Metal Door Frame For Door Swing .....	1,007.94	
			Note: Includes removal of door, blank hinge plates, continuous hinge, blank strike plate, new strike plate and reinstallation of door.		
08 05 13 00-0047	EA		Removal And Reinstallation Of Door .....	86.24	
08 05 13 00-0048	EA		Removal And Reinstallation Of Metal Door Frame .....	169.10	
08 05 13 00-0049	EA		Removal And Reinstallation Of Wood Door Frame .....	102.11	

**08 30 Specialty Doors And Frames (08)**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**08 31 Access Doors And Panels** (08 30)

See CSI section 07 72 33 00-0000 for roof hatches.

**08 31 13 Access Doors And Frames** (08 31)

**08 31 13 00-0001 Stainless Steel Access Doors** (08 31 13)

**08 31 13 00-0002 Fire Rated Stainless Steel Access Doors** (08 31 13 00-0001)

08 31 13 00-0003	EA	12" x 12" Fire Rated Stainless Steel Access Door With Cam Latch .....	230.59	58.86
08 31 13 00-0004	EA	12" x 18" Fire Rated Stainless Steel Access Door With Cam Latch .....	262.54	62.71
08 31 13 00-0005	EA	18" x 18" Fire Rated Stainless Steel Access Door With Cam Latch .....	299.80	66.32
08 31 13 00-0006	EA	24" x 18" Fire Rated Stainless Steel Access Door With Cam Latch .....	339.28	69.69
08 31 13 00-0007	EA	24" x 24" Fire Rated Stainless Steel Access Door With Cam Latch .....	345.82	70.05
08 31 13 00-0008	EA	24" x 36" Fire Rated Stainless Steel Access Door With Cam Latch .....	445.26	72.21

**08 31 13 00-0009 Stainless Steel Access Doors** (08 31 13 00-0001)

08 31 13 00-0010	EA	8" x 8" Stainless Steel Access Door With Cam Latch .....	123.82	45.14
08 31 13 00-0011	EA	12" x 12" Stainless Steel Access Door With Cam Latch .....	140.88	58.86
08 31 13 00-0012	EA	12" x 18" Stainless Steel Access Door With Cam Latch .....	179.48	62.71
08 31 13 00-0013	EA	18" x 18" Stainless Steel Access Door With Cam Latch .....	191.71	66.32
08 31 13 00-0014	EA	24" x 18" Stainless Steel Access Door With Cam Latch .....	215.28	69.69
08 31 13 00-0015	EA	24" x 24" Stainless Steel Access Door With Cam Latch .....	235.99	70.05

**08 31 13 00-0016 Steel Access Doors** (08 31 13)

Note: Includes paintable powder coated finish.

**08 31 13 00-0017 Insulated Fire Rated Steel Access Doors** (08 31 13 00-0016)

08 31 13 00-0018	EA	12" x 12" Insulated Fire Rated Steel Access Door With Cam Latch .....	224.24	59.22
08 31 13 00-0019	EA	12" x 18" Insulated Fire Rated Steel Access Door With Cam Latch .....	272.35	62.71
08 31 13 00-0020	EA	18" x 18" Insulated Fire Rated Steel Access Door With Cam Latch .....	274.01	66.32
08 31 13 00-0021	EA	24" x 18" Insulated Fire Rated Steel Access Door With Cam Latch .....	321.10	70.05
08 31 13 00-0022	EA	24" x 24" Insulated Fire Rated Steel Access Door With Cam Latch .....	334.07	70.05
08 31 13 00-0023	EA	24" x 36" Insulated Fire Rated Steel Access Door With Cam Latch .....	438.37	72.21
08 31 13 00-0024	EA	24" x 48" Insulated Fire Rated Steel Access Door With Cam Latch .....	500.58	75.23
08 31 13 00-0025	EA	36" x 36" Insulated Fire Rated Steel Access Door With Cam Latch .....	607.91	75.23
08 31 13 00-0026	EA	48" x 48" Insulated Fire Rated Steel Access Door With Cam Latch .....	776.28	90.27

**08 31 13 00-0027 Steel Access Doors** (08 31 13 00-0016)

08 31 13 00-0028	EA	8" x 8" Steel Access Door With Cam Latch .....	127.40	45.38
08 31 13 00-0029	EA	12" x 12" Steel Access Door With Cam Latch .....	136.34	59.22
08 31 13 00-0030	EA	12" x 18" Steel Access Door With Cam Latch .....	154.22	62.71
08 31 13 00-0031	EA	18" x 18" Steel Access Door With Cam Latch .....	159.48	66.32
08 31 13 00-0032	EA	24" x 18" Steel Access Door With Cam Latch .....	184.96	70.05
08 31 13 00-0033	EA	24" x 24" Steel Access Door With Cam Latch .....	188.53	70.05
08 31 13 00-0034	EA	24" x 36" Steel Access Door With Cam Latch .....	243.13	72.21
08 31 13 00-0035	EA	36" x 36" Steel Access Door With Cam Latch .....	308.83	75.23

**08 31 13 00-0036 Steel Recessed Access Doors For Drywall Application** (08 31 13)

Note: Includes paintable powder coated finish.

08 31 13 00-0037	EA	8" x 8" Recessed Steel Access Door With Cam Latch .....	170.23	45.14
		<i>For Recessed Doors In Acoustical Tile, Add</i>	24.11	
08 31 13 00-0038	EA	12" x 12" Recessed Steel Access Door With Cam Latch .....	178.84	48.39
		<i>For Recessed Doors In Acoustical Tile, Add</i>	26.37	
08 31 13 00-0039	EA	12" x 18" Recessed Steel Access Door With Cam Latch .....	191.73	51.15
		<i>For Recessed Doors In Acoustical Tile, Add</i>	27.53	
08 31 13 00-0040	EA	18" x 18" Recessed Steel Access Door With Cam Latch .....	221.43	54.16
		<i>For Recessed Doors In Acoustical Tile, Add</i>	26.37	
08 31 13 00-0041	EA	24" x 18" Recessed Steel Access Door With Cam Latch .....	233.09	57.17
		<i>For Recessed Doors In Acoustical Tile, Add</i>	27.93	
08 31 13 00-0042	EA	24" x 24" Recessed Steel Access Door With Cam Latch .....	251.95	57.17
		<i>For Recessed Doors In Acoustical Tile, Add</i>	25.11	
08 31 13 00-0043	EA	24" x 36" Recessed Steel Access Door With Cam Latch .....	314.44	72.21
		<i>For Recessed Doors In Acoustical Tile, Add</i>	32.28	
08 31 13 00-0044	EA	36" x 36" Recessed Steel Access Door With Cam Latch .....	432.46	75.23
		<i>For Recessed Doors In Acoustical Tile, Add</i>	17.88	

**08 31 13 00-0045 Steel Crawl Space Doors And Frames** (08 31 13)

Note: Includes paintable powder coated finish.

08 31 13 00-0046	EA	24" x 24" Steel Crawl Space Door With Cam Latch .....	198.94	76.19
08 31 13 00-0047	EA	30" x 24" Steel Crawl Space Door With Cam Latch .....	272.91	92.32
08 31 13 00-0048	EA	30" x 30" Steel Crawl Space Door With Cam Latch .....	304.46	100.26

**08 60 Roof Windows And Skylights** (08)

Note: Includes hardware, caulk, sealant and necessary anchors.

**08 Openings****08 60 Roof Windows And Skylights****08 62 Unit Skylights**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST**08 62 Unit Skylights** (08 60)**08 62 23 Tubular Skylights** (08 62)

08 62 23 00-0001

**Aluminum Framed Solar Tube Skylights** (08 62 23)

Note: Includes knock down curb with safety security guard, class 1 hail rated double glazed skylight, light shaft top trim, reflective light well, T-bar ceiling frame, acrylic diffuser lens and lens clip.

08 62 23 00-0002

**31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights** (08 62 23 00-0001)

08 62 23 00-0003	EA	2' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	307.08	153.54
		<i>For Class 3 Hail Rated, Add</i>	4.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
		<i>For FM Approved, Add</i>	20.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
		<i>For Single Blade Louver, Add</i>	30.71	
08 62 23 00-0004	EA	3' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	314.77	157.38
		<i>For Class 3 Hail Rated, Add</i>	4.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
		<i>For FM Approved, Add</i>	20.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
		<i>For Single Blade Louver, Add</i>	31.48	
08 62 23 00-0005	EA	4' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	871.48	161.22
		<i>For Class 3 Hail Rated, Add</i>	4.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
		<i>For FM Approved, Add</i>	20.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
		<i>For Single Blade Louver, Add</i>	32.24	
08 62 23 00-0006	EA	5' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	330.12	165.06
		<i>For Class 3 Hail Rated, Add</i>	4.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
		<i>For FM Approved, Add</i>	20.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
		<i>For Single Blade Louver, Add</i>	33.01	
08 62 23 00-0007	EA	6' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	976.47	168.90
		<i>For Class 3 Hail Rated, Add</i>	4.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
		<i>For FM Approved, Add</i>	20.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
		<i>For Single Blade Louver, Add</i>	33.78	
08 62 23 00-0008	EA	7' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,016.65	172.74
		<i>For Class 3 Hail Rated, Add</i>	4.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
		<i>For FM Approved, Add</i>	20.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
		<i>For Single Blade Louver, Add</i>	34.55	
08 62 23 00-0009	EA	8' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,056.82	176.57
		<i>For Class 3 Hail Rated, Add</i>	4.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
		<i>For FM Approved, Add</i>	20.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
		<i>For Single Blade Louver, Add</i>	35.32	
08 62 23 00-0010	EA	9' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	360.82	180.41
		<i>For Class 3 Hail Rated, Add</i>	4.00	
		<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
		<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
		<i>For FM Approved, Add</i>	20.00	
		<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
		<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
		<i>For Single Blade Louver, Add</i>	36.08	



<b>Openings</b>	<b>08</b>
Roof Windows And Skylights	08 60
Unit Skylights	08 62

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0011 EA 10' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,161.81	184.25
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	36.85	
08 62 23 00-0012 EA 11' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	376.18	188.09
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	37.62	
08 62 23 00-0013 EA 12' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	383.86	191.92
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	38.39	
08 62 23 00-0014 EA 13' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,308.10	195.77
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	39.15	
08 62 23 00-0015 EA 14' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	399.21	199.61
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	39.92	
08 62 23 00-0016 EA 15' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,388.45	203.45
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	40.69	
08 62 23 00-0017 EA 16' Shaft Length, 31-5/8" x 31-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,428.62	207.28
<i>For Class 3 Hail Rated, Add</i>	4.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	7.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	20.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	49.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	69.00	
<i>For Single Blade Louver, Add</i>	41.46	
<b>08 62 23 00-0018 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights</b> <small>(08 62 23 00-0001)</small>		
08 62 23 00-0019 EA 2' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	307.08	153.54
<i>For Class 3 Hail Rated, Add</i>	5.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	22.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
<i>For Single Blade Louver, Add</i>	30.71	
08 62 23 00-0020 EA 3' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	997.15	157.38
<i>For Class 3 Hail Rated, Add</i>	5.00	
<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
<i>For FM Approved, Add</i>	22.00	
<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
<i>For Single Blade Louver, Add</i>	31.48	

**08 Openings****08 60 Roof Windows And Skylights****08 62 Unit Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0021	EA		4' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	322.44	161.22
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	32.24	
08 62 23 00-0022	EA		5' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	330.12	165.06
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	33.01	
08 62 23 00-0023	EA		6' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,198.33	168.90
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	33.78	
08 62 23 00-0024	EA		7' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	345.47	172.74
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	34.55	
08 62 23 00-0025	EA		8' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	353.15	176.57
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	35.32	
08 62 23 00-0026	EA		9' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	360.82	180.41
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	36.08	
08 62 23 00-0027	EA		10' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,455.38	184.25
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	36.85	
08 62 23 00-0028	EA		11' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,511.25	188.09
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	37.62	
08 62 23 00-0029	EA		12' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,567.11	191.92
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	38.39	





<b>Openings</b>	<b>08</b>
Roof Windows And Skylights	08 60
Unit Skylights	08 62

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0030	EA		13' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,656.57	195.77
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	39.15	
08 62 23 00-0031	EA		14' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	399.21	199.61
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	39.92	
08 62 23 00-0032	EA		15' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,768.30	203.45
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	40.69	
08 62 23 00-0033	EA		16' Shaft Length, 31-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	414.57	207.28
			<i>For Class 3 Hail Rated, Add</i>	5.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	8.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	14.00	
			<i>For FM Approved, Add</i>	22.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	50.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	86.00	
			<i>For Single Blade Louver, Add</i>	41.46	
08 62 23 00-0034			<b>55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylights</b>		
			<small>(08 62 23 00-0001)</small>		
08 62 23 00-0035	EA		2' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	345.47	172.74
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	34.55	
08 62 23 00-0036	EA		3' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,317.90	176.57
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	35.32	
08 62 23 00-0037	EA		4' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	360.82	180.41
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	36.08	
08 62 23 00-0038	EA		5' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,473.31	184.25
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	36.85	
08 62 23 00-0039	EA		6' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	376.18	188.09
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	37.62	

**08 Openings****08 60 Roof Windows And Skylights****08 62 Unit Skylights**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0040	EA		7' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	383.86	191.92
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	38.39	
08 62 23 00-0041	EA		8' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,749.58	195.77
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	39.15	
08 62 23 00-0042	EA		9' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,872.67	199.61
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	39.92	
08 62 23 00-0043	EA		10' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	1,949.82	203.45
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	40.69	
08 62 23 00-0044	EA		11' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	414.57	207.28
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	41.46	
08 62 23 00-0045	EA		12' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	2,104.11	211.12
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	42.22	
08 62 23 00-0046	EA		13' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	429.91	214.96
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	42.99	
08 62 23 00-0047	EA		14' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	437.60	218.79
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	43.76	
08 62 23 00-0048	EA		15' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	445.27	222.63
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	44.53	



<b>Openings</b>	<b>08</b>
<b>Roof Windows And Skylights</b>	<b>08 60</b>
<b>Unit Skylights</b>	<b>08 62</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 62 23 00-0049	EA		16' Shaft Length, 55-5/8" x 55-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Solar Tube Skylight.....	452.95	226.48
			<i>For Class 3 Hail Rated, Add</i>	10.00	
			<i>For Polycarbonate Diffuser Lens, Add</i>	14.00	
			<i>For High Velocity Hurricane Zone Rated, Add</i>	22.00	
			<i>For FM Approved, Add</i>	36.00	
			<i>For 18 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	95.00	
			<i>For 14 Gauge, Insulated Galvanized Steel Roof Curb, Add</i>	145.00	
			<i>For Single Blade Louver, Add</i>	45.30	
<b>08 63 Metal-Framed Skylights (08 60)</b>					
<b>08 63 13 Domed Metal-Framed Skylights (08 63)</b>					
08 63 13 00-0001			Aluminum Framed Skylights (08 63 13)		
08 63 13 00-0002			Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0001)		
08 63 13 00-0003			Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0002)		
08 63 13 00-0004			Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0003)		
			Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0005	EA		27-1/4" x 27-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	291.36	76.78
08 63 13 00-0006	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	153.54	76.78
08 63 13 00-0007	EA		27-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	442.78	86.36
08 63 13 00-0008	EA		27-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	500.06	95.96
08 63 13 00-0009	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	153.54	76.78
08 63 13 00-0010	EA		39-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	428.21	86.36
08 63 13 00-0011	EA		39-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	172.74	86.36
08 63 13 00-0012	EA		39-1/4" x 99-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	520.23	95.96
08 63 13 00-0013	EA		39-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	211.12	105.56
08 63 13 00-0014	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	172.74	86.36
08 63 13 00-0015	EA		51-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	191.92	95.96
08 63 13 00-0016	EA		51-1/4" x 75-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	525.83	95.96
08 63 13 00-0017	EA		51-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	578.64	105.56
08 63 13 00-0018	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0019	EA		52-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	249.50	124.76
08 63 13 00-0020	EA		63-1/4" x 63-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	191.92	95.96
08 63 13 00-0021	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	564.08	105.56
08 63 13 00-0022	EA		63-1/4" x 87-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0023	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	670.68	115.16
08 63 13 00-0024	EA		63-1/4" x 123-1/4" Inside Frame Dimensions, Class 1 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	249.50	124.76
08 63 13 00-0025			Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0003)		
			Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0026	EA		27-1/4" x 27-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	153.54	76.78
08 63 13 00-0027	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	153.54	76.78
08 63 13 00-0028	EA		27-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	172.74	86.36
08 63 13 00-0029	EA		27-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	191.92	95.96
08 63 13 00-0030	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	391.09	76.78
08 63 13 00-0031	EA		39-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	459.59	86.36
08 63 13 00-0032	EA		39-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	172.74	86.36

**08 Openings****08 60 Roof Windows And Skylights****08 63 Metal-Framed Skylights**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0033 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	558.32	95.96
08 63 13 00-0034 EA 39-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	211.12	105.56
08 63 13 00-0035 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	172.74	86.36
08 63 13 00-0036 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	514.62	95.96
08 63 13 00-0037 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	544.88	95.96
08 63 13 00-0038 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	599.93	105.56
08 63 13 00-0039 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	230.32	115.16
08 63 13 00-0040 EA 52-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	249.50	124.76
08 63 13 00-0041 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	549.36	95.96
08 63 13 00-0042 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	604.42	105.56
08 63 13 00-0043 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	230.32	115.16
08 63 13 00-0044 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	696.45	115.16
08 63 13 00-0045 EA 63-1/4" x 123-1/4" Inside Frame Dimensions, Class 3 Hail Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	788.46	124.76
<b>08 63 13 00-0046 High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0003)</small>		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0047 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	153.54	76.78
08 63 13 00-0048 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	394.45	76.78
08 63 13 00-0049 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	498.81	86.36
08 63 13 00-0050 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	153.54	76.78
08 63 13 00-0051 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	172.74	86.36
08 63 13 00-0052 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	498.81	86.36
08 63 13 00-0053 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	191.92	95.96
08 63 13 00-0054 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	172.74	86.36
08 63 13 00-0055 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	191.92	95.96
08 63 13 00-0056 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	191.92	95.96
08 63 13 00-0057 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	614.50	105.56
08 63 13 00-0058 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	230.32	115.16
08 63 13 00-0059 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	562.81	95.96
08 63 13 00-0060 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	622.34	105.56
08 63 13 00-0061 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	683.00	115.16
08 63 13 00-0062 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, High Velocity Hurricane Zone Rated, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	230.32	115.16
<b>08 63 13 00-0063 FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0003)</small>		
Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0064 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	359.71	76.78
08 63 13 00-0065 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	153.54	76.78
08 63 13 00-0066 EA 27-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	172.74	86.36
08 63 13 00-0067 EA 27-1/4" x 123-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	191.92	95.96
08 63 13 00-0068 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	413.50	76.78
08 63 13 00-0069 EA 39-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight .....	485.36	86.36



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0070 EA 39-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	172.74	86.36
08 63 13 00-0071 EA 39-1/4" x 99-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	191.92	95.96
08 63 13 00-0072 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	172.74	86.36
08 63 13 00-0073 EA 51-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	191.92	95.96
08 63 13 00-0074 EA 51-1/4" x 75-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	575.13	95.96
08 63 13 00-0075 EA 51-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	211.12	105.56
08 63 13 00-0076 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0077 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	579.61	95.96
08 63 13 00-0078 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	639.15	105.56
08 63 13 00-0079 EA 63-1/4" x 87-1/4" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	700.93	115.16
08 63 13 00-0080 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, FM Approved, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Fixed Dome, Aluminum Framed Skylight.....	230.32	115.16
<b>08 63 13 00-0081 Curb Top Inserts</b> <small>(08 63 13 00-0003)</small>		
<small>Note: For use with industrial style fixed dome skylights for better u-value and solar heat gain coefficient/shading coefficient (SHGC/SC) properties. Includes mill finish aluminum frame and acrylic or polycarbonate glazing. Excludes roof curb.</small>		
<b>08 63 13 00-0082 Single Glazed, Aluminum Framed Curb Top Inserts</b> <small>(08 63 13 00-0081)</small>		
08 63 13 00-0083 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert .....	76.78	38.38
08 63 13 00-0084 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert .....	86.36	43.19
08 63 13 00-0085 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert .....	263.07	57.58
08 63 13 00-0086 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert .....	105.56	52.78
08 63 13 00-0087 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Single Glazed, Aluminum Framed Curb Top Insert .....	294.44	57.58
<b>08 63 13 00-0088 Double Glazed, Aluminum Framed Curb Top Inserts</b> <small>(08 63 13 00-0081)</small>		
08 63 13 00-0089 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	76.78	38.38
08 63 13 00-0090 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	247.71	43.19
08 63 13 00-0091 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	423.30	57.58
08 63 13 00-0092 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	105.56	52.78
08 63 13 00-0093 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Double Glazed, Aluminum Framed Curb Top Insert.....	115.16	57.58
<b>08 63 13 00-0094 Triple Glazed, Aluminum Framed Curb Top Inserts</b> <small>(08 63 13 00-0081)</small>		
08 63 13 00-0095 EA 27-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert .....	76.78	38.38
08 63 13 00-0096 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert .....	86.36	43.19
08 63 13 00-0097 EA 52-1/4" x 100-1/4" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert .....	115.16	57.58
08 63 13 00-0098 EA 63-5/8" x 75-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert .....	572.81	52.78
08 63 13 00-0099 EA 63-1/4" x 99-5/8" Inside Frame Dimensions, Triple Glazed, Aluminum Framed Curb Top Insert .....	115.16	57.58
<b>08 63 13 00-0100 Pyramid Style Fixed Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0002)</small>		
<b>08 63 13 00-0101 Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight</b> <small>(08 63 13 00-0100)</small>		
<small>Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.</small>		
08 63 13 00-0102 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight .....	271.19	76.78
08 63 13 00-0103 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	319.37	76.78
08 63 13 00-0104 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight .....	172.74	86.36
08 63 13 00-0105 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight.....	191.92	95.96
<b>08 63 13 00-0106 Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight</b> <small>(08 63 13 00-0100)</small>		
<small>Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.</small>		
08 63 13 00-0107 EA 27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight .....	153.54	76.78
08 63 13 00-0108 EA 39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight .....	153.54	76.78
08 63 13 00-0109 EA 51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight .....	172.74	86.36
08 63 13 00-0110 EA 63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Pyramid Style Fixed Dome, Aluminum Framed Skylight .....	575.13	95.96

**08 Openings****08 60 Roof Windows And Skylights****08 63 Metal-Framed Skylights**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0111			Double Hip Style Fixed Dome, Aluminum Framed Skylights (08 63 13 00-0002)		
08 63 13 00-0112			Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight (08 63 13 00-0111)		
			Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0113	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....	312.65	76.78
08 63 13 00-0114	EA		27-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....	172.74	86.36
08 63 13 00-0115	EA		27-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	482.13	95.96
08 63 13 00-0116	EA		39-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....	385.64	86.36
08 63 13 00-0117	EA		39-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....	172.74	86.36
08 63 13 00-0118	EA		39-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....	495.58	95.96
08 63 13 00-0119	EA		39-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	211.12	105.56
08 63 13 00-0120	EA		51-1/4" x 63-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....	191.92	95.96
08 63 13 00-0121	EA		51-1/4" x 75-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....	482.13	95.96
08 63 13 00-0122	EA		51-1/4" x 99-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....	211.12	105.56
08 63 13 00-0123	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0124	EA		52-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	249.50	124.76
08 63 13 00-0125	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....	211.12	105.56
08 63 13 00-0126	EA		63-1/4" x 87-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....	230.32	115.16
08 63 13 00-0127	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight .....	230.32	115.16
08 63 13 00-0128	EA		63-1/4" x 123-1/4" Inside Frame Dimensions, Acrylic/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	249.50	124.76
08 63 13 00-0129			Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight (08 63 13 00-0111)		
			Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0130	EA		27-1/4" x 27-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	153.54	76.78
08 63 13 00-0131	EA		27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	391.09	76.78
08 63 13 00-0132	EA		27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	172.74	86.36
08 63 13 00-0133	EA		39-1/4" x 39-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	153.54	76.78
08 63 13 00-0134	EA		39-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	172.74	86.36
08 63 13 00-0135	EA		39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	468.55	86.36
08 63 13 00-0136	EA		39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	172.74	86.36
08 63 13 00-0137	EA		39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	191.92	95.96
08 63 13 00-0138	EA		51-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	172.74	86.36
08 63 13 00-0139	EA		51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	191.92	95.96
08 63 13 00-0140	EA		51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	552.72	95.96
08 63 13 00-0141	EA		51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	606.66	105.56
08 63 13 00-0142	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0143	EA		63-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	191.92	95.96
08 63 13 00-0144	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	211.12	105.56
08 63 13 00-0145	EA		63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0146	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Acrylic Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	230.32	115.16



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0147				<b>Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight</b> <small>(08 63 13 00-0111)</small>		
				Note: Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, weather sweep, curb seal tape and fasteners. Excludes roof curb.		
08 63 13 00-0148	EA			27-1/4" x 51-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	387.72	76.78
08 63 13 00-0149	EA			27-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	506.65	86.36
08 63 13 00-0150	EA			39-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	480.88	86.36
08 63 13 00-0151	EA			39-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	506.65	86.36
08 63 13 00-0152	EA			39-1/4" x 99-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	191.92	95.96
08 63 13 00-0153	EA			51-1/4" x 63-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	532.55	95.96
08 63 13 00-0154	EA			51-1/4" x 75-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	191.92	95.96
08 63 13 00-0155	EA			51-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	626.83	105.56
08 63 13 00-0156	EA			52-1/4" x 100-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0157	EA			63-5/8" x 75-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	634.67	105.56
08 63 13 00-0158	EA			63-1/4" x 87-1/4" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	696.45	115.16
08 63 13 00-0159	EA			63-1/4" x 99-5/8" Inside Frame Dimensions, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Double Hip Style Fixed Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0160				<b>Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0001)</small>		
08 63 13 00-0161				<b>Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0160)</small>		
				Note: UL listed or FM approved. Includes mill finish aluminum frame, integral condensation and weepage gutters, insulated thermal break, curb seal tape, weather sweep, fasteners, fusible link with a minimum temperature rating of 165 degrees, gas shocks and exterior manual release cable for testing.		
08 63 13 00-0162				<b>Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0161)</small>		
08 63 13 00-0163				<b>10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0162)</small>		
08 63 13 00-0164	EA			52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0165	EA			63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	1,437.10	115.16
08 63 13 00-0166	EA			63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	1,614.14	115.16
08 63 13 00-0167				<b>25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0162)</small>		
08 63 13 00-0168	EA			52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0169	EA			63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0170	EA			63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0171				<b>30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0162)</small>		
08 63 13 00-0172	EA			52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,115.00	115.16
08 63 13 00-0173	EA			63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0174	EA			63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Acrylic/Acrylic Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0175				<b>Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0161)</small>		
08 63 13 00-0176				<b>10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> <small>(08 63 13 00-0175)</small>		
08 63 13 00-0177	EA			52-1/4" x 100-1/4" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0178	EA			63-5/8" x 75-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0179	EA			63-1/4" x 99-5/8" Inside Frame Dimensions, 10 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	1,624.22	115.16

**08 Openings****08 60 Roof Windows And Skylights****08 63 Metal-Framed Skylights**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 63 13 00-0180			<b>25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> (08 63 13 00-0175)		
08 63 13 00-0181	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0182	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0183	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, 25 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0184			<b>30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylights</b> (08 63 13 00-0175)		
08 63 13 00-0185	EA		52-1/4" x 100-1/4" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0186	EA		63-5/8" x 75-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	230.32	115.16
08 63 13 00-0187	EA		63-1/4" x 99-5/8" Inside Frame Dimensions, 30 LB Uplift Rated, Polycarbonate/Polycarbonate Double Glazed Prismatic Lens, Industrial Style Smoke Vent Dome, Aluminum Framed Skylight.....	2,225.93	115.16
08 66			<b>Wood-Framed Skylights</b> (08 66)		
08 66 00 00-0001			<b>Wood-Framed Skylights (Andersen 400 Series)</b> (08 66)		
08 66 00 00-0002	EA		16-1/2" x 38", Domed, Wood-Framed Skylight (Andersen 400 Series).....	419.65	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	41.50	
			For Aluminum Shingle Flashing, Add	33.20	
08 66 00 00-0003	EA		16-1/2" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series).....	426.42	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	43.19	
			For Aluminum Shingle Flashing, Add	34.55	
08 66 00 00-0004	EA		24-1/2" x 27", Domed, Wood-Framed Skylight (Andersen 400 Series).....	410.33	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	39.17	
			For Aluminum Shingle Flashing, Add	31.34	
08 66 00 00-0005	EA		24-1/2" x 38", Domed, Wood-Framed Skylight (Andersen 400 Series).....	431.50	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	44.46	
			For Aluminum Shingle Flashing, Add	35.57	
08 66 00 00-0006	EA		24-1/2" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series).....	449.29	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	48.91	
			For Aluminum Shingle Flashing, Add	39.13	
08 66 00 00-0007	EA		24-1/2" x 57", Domed, Wood-Framed Skylight (Andersen 400 Series).....	478.09	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	56.11	
			For Aluminum Shingle Flashing, Add	44.89	
08 66 00 00-0008	EA		24-1/2" x 72", Domed, Wood-Framed Skylight (Andersen 400 Series).....	514.50	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	65.21	
			For Aluminum Shingle Flashing, Add	52.17	
08 66 00 00-0009	EA		27" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series).....	410.33	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	39.17	
			For Aluminum Shingle Flashing, Add	31.34	
08 66 00 00-0010	EA		28" x 38", Domed, Wood-Framed Skylight (Andersen 400 Series).....	453.52	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	49.97	
			For Aluminum Shingle Flashing, Add	39.97	
08 66 00 00-0011	EA		28" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series).....	478.09	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	56.11	
			For Aluminum Shingle Flashing, Add	44.89	
08 66 00 00-0012	EA		28" x 57", Domed, Wood-Framed Skylight (Andersen 400 Series).....	506.03	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	63.10	
			For Aluminum Shingle Flashing, Add	50.48	
08 66 00 00-0013	EA		28" x 72", Domed, Wood-Framed Skylight (Andersen 400 Series).....	543.30	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	72.41	
			For Aluminum Shingle Flashing, Add	57.93	
08 66 00 00-0014	EA		38" x 16-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series).....	419.65	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	41.50	
			For Aluminum Shingle Flashing, Add	33.20	
08 66 00 00-0015	EA		38" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series).....	431.50	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	44.46	
			For Aluminum Shingle Flashing, Add	35.57	
08 66 00 00-0016	EA		38" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series).....	453.52	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	49.97	
			For Aluminum Shingle Flashing, Add	39.97	
08 66 00 00-0017	EA		44" x 46", Domed, Wood-Framed Skylight (Andersen 400 Series).....	531.44	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	69.45	
			For Aluminum Shingle Flashing, Add	55.56	
08 66 00 00-0018	EA		46" x 16-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series).....	426.42	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	43.19	
			For Aluminum Shingle Flashing, Add	34.55	
08 66 00 00-0019	EA		46" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series).....	449.29	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	48.91	
			For Aluminum Shingle Flashing, Add	39.13	
08 66 00 00-0020	EA		46" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series).....	478.09	126.83
			For Tempered Laminated Low-E Insulated Glass, Add	56.11	
			For Aluminum Shingle Flashing, Add	44.89	





<b>Openings</b>	<b>08</b>
Roof Windows And Skylights	08 60
Wood-Framed Skylights	08 66

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 66 00 00-0021	EA		46" x 44", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	531.44 69.45 55.56	126.83
08 66 00 00-0022	EA		57" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	478.09 56.11 44.89	126.83
08 66 00 00-0023	EA		57" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	506.03 63.10 50.48	126.83
08 66 00 00-0024	EA		72" x 24-1/2", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	514.50 65.21 52.17	126.83
08 66 00 00-0025	EA		72" x 28", Domed, Wood-Framed Skylight (Andersen 400 Series)..... <i>For Tempered Laminated Low-E Insulated Glass, Add</i> <i>For Aluminum Shingle Flashing, Add</i>	543.30 72.41 57.93	126.83

## 08 90 Louvers And Vents <sup>(08)</sup>

### 08 91 Louvers <sup>(08 90)</sup>

#### 08 91 13 Motorized Wall Louvers <sup>(08 91)</sup>

##### 08 91 13 00-0001 Motorized Wall Louver Actuator <sup>(08 91 13)</sup>

See CSI section 08 91 16 00-0001 for adjustable intake wall louvers.

08 91 13 00-0002	EA		115 Volt Actuator For Adjustable Intake Louver.....	1,195.00	102.33
08 91 13 00-0003	EA		230 Volt Actuator For Adjustable Intake Louver.....	1,761.71	102.33
08 91 13 00-0004	EA		24 Volt Actuator For Adjustable Intake Louver.....	1,275.78	102.33
08 91 13 00-0005	EA		115 Volt Hazardous Location Actuator For Adjustable Intake Louver.....	4,602.20	102.33

#### 08 91 16 Operable Wall Louvers <sup>(08 91)</sup>

##### 08 91 16 00-0001 Adjustable Intake Wall Louvers <sup>(08 91 16)</sup>

See CSI section 08 91 16 00-0137 for adjustable intake wall louver operators.

08 91 16 00-0002	EA		12" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	313.54	27.08
			<i>For Flange Frame, Add</i>	25.94	
			<i>For Clear Lacquer Finish, Add</i>	51.87	
			<i>For Baked Enamel Standard Colors, Add</i>	77.81	
			<i>For Anodized Finish, Add</i>	103.75	
			<i>For Kynar™ Standard Colors Finish, Add</i>	142.65	
08 91 16 00-0003	EA		12" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	391.22	33.10
			<i>For Flange Frame, Add</i>	32.50	
			<i>For Clear Lacquer Finish, Add</i>	65.00	
			<i>For Baked Enamel Standard Colors, Add</i>	97.50	
			<i>For Anodized Finish, Add</i>	130.00	
			<i>For Kynar™ Standard Colors Finish, Add</i>	178.76	
08 91 16 00-0004	EA		12" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	462.58	39.13
			<i>For Flange Frame, Add</i>	38.43	
			<i>For Clear Lacquer Finish, Add</i>	76.87	
			<i>For Baked Enamel Standard Colors, Add</i>	115.30	
			<i>For Anodized Finish, Add</i>	153.73	
			<i>For Kynar™ Standard Colors Finish, Add</i>	211.38	
08 91 16 00-0005	EA		12" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	540.87	45.15
			<i>For Flange Frame, Add</i>	45.06	
			<i>For Clear Lacquer Finish, Add</i>	90.12	
			<i>For Baked Enamel Standard Colors, Add</i>	135.18	
			<i>For Anodized Finish, Add</i>	180.24	
			<i>For Kynar™ Standard Colors Finish, Add</i>	247.82	
08 91 16 00-0006	EA		12" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	609.72	51.16
			<i>For Flange Frame, Add</i>	50.74	
			<i>For Clear Lacquer Finish, Add</i>	101.48	
			<i>For Baked Enamel Standard Colors, Add</i>	152.22	
			<i>For Anodized Finish, Add</i>	202.96	
			<i>For Kynar™ Standard Colors Finish, Add</i>	279.06	
08 91 16 00-0007	EA		12" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	717.04	57.18
			<i>For Flange Frame, Add</i>	60.27	
			<i>For Clear Lacquer Finish, Add</i>	120.54	
			<i>For Baked Enamel Standard Colors, Add</i>	180.80	
			<i>For Anodized Finish, Add</i>	241.07	
			<i>For Kynar™ Standard Colors Finish, Add</i>	331.47	
08 91 16 00-0008	EA		12" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	815.54	63.20
			<i>For Flange Frame, Add</i>	68.91	
			<i>For Clear Lacquer Finish, Add</i>	137.83	
			<i>For Baked Enamel Standard Colors, Add</i>	206.74	
			<i>For Anodized Finish, Add</i>	275.66	
			<i>For Kynar™ Standard Colors Finish, Add</i>	379.03	

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0009	EA		12" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	907.44	72.23
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	76.30	
			For Clear Lacquer Finish, Add	152.60	
			For Baked Enamel Standard Colors, Add	228.89	
			For Anodized Finish, Add	305.19	
			For Kynar™ Standard Colors Finish, Add	419.64	
08 91 16 00-0010	EA		12" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	969.32	78.25
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	81.28	
			For Clear Lacquer Finish, Add	162.57	
			For Baked Enamel Standard Colors, Add	243.85	
			For Anodized Finish, Add	325.13	
			For Kynar™ Standard Colors Finish, Add	447.06	
08 91 16 00-0011	EA		12" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,045.74	84.26
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	87.72	
			For Clear Lacquer Finish, Add	175.44	
			For Baked Enamel Standard Colors, Add	263.16	
			For Anodized Finish, Add	350.88	
			For Kynar™ Standard Colors Finish, Add	482.46	
08 91 16 00-0012	EA		12" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,113.31	90.28
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	93.27	
			For Clear Lacquer Finish, Add	186.55	
			For Baked Enamel Standard Colors, Add	279.82	
			For Anodized Finish, Add	373.10	
			For Kynar™ Standard Colors Finish, Add	513.01	
08 91 16 00-0013	EA		12" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,198.55	96.31
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	100.59	
			For Clear Lacquer Finish, Add	201.19	
			For Baked Enamel Standard Colors, Add	301.78	
			For Anodized Finish, Add	402.38	
			For Kynar™ Standard Colors Finish, Add	553.27	
08 91 16 00-0014	EA		12" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	1,280.64	102.33
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	107.60	
			For Clear Lacquer Finish, Add	215.20	
			For Baked Enamel Standard Colors, Add	322.80	
			For Anodized Finish, Add	430.40	
			For Kynar™ Standard Colors Finish, Add	591.79	
08 91 16 00-0015	EA		12" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	1,383.89	111.36
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	116.12	
			For Clear Lacquer Finish, Add	232.24	
			For Baked Enamel Standard Colors, Add	348.36	
			For Anodized Finish, Add	464.48	
			For Kynar™ Standard Colors Finish, Add	638.65	
08 91 16 00-0016	EA		12" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	1,461.91	120.38
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	122.11	
			For Clear Lacquer Finish, Add	244.23	
			For Baked Enamel Standard Colors, Add	366.34	
			For Anodized Finish, Add	488.46	
			For Kynar™ Standard Colors Finish, Add	671.63	
08 91 16 00-0017	EA		18" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	353.98	33.10
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	28.78	
			For Clear Lacquer Finish, Add	57.55	
			For Baked Enamel Standard Colors, Add	86.33	
			For Anodized Finish, Add	115.11	
			For Kynar™ Standard Colors Finish, Add	158.27	
08 91 16 00-0018	EA		18" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	447.13	42.13
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	36.29	
			For Clear Lacquer Finish, Add	72.57	
			For Baked Enamel Standard Colors, Add	108.86	
			For Anodized Finish, Add	145.15	
			For Kynar™ Standard Colors Finish, Add	199.58	
08 91 16 00-0019	EA		18" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	523.55	48.15
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	42.72	
			For Clear Lacquer Finish, Add	85.45	
			For Baked Enamel Standard Colors, Add	128.17	
			For Anodized Finish, Add	170.90	
			For Kynar™ Standard Colors Finish, Add	234.98	
08 91 16 00-0020	EA		18" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	651.75	60.19
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	53.14	
			For Clear Lacquer Finish, Add	106.27	
			For Baked Enamel Standard Colors, Add	159.41	
			For Anodized Finish, Add	212.55	
			For Kynar™ Standard Colors Finish, Add	292.25	



<b>Openings</b>	<b>08</b>
Louvers And Vents	08 90
Louvers	08 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0021	EA		18" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	739.52	66.21
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	60.71	
			For Clear Lacquer Finish, Add	121.42	
			For Baked Enamel Standard Colors, Add	182.13	
			For Anodized Finish, Add	242.84	
			For Kynar™ Standard Colors Finish, Add	333.91	
08 91 16 00-0022	EA		18" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	827.29	72.23
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	68.28	
			For Clear Lacquer Finish, Add	136.57	
			For Baked Enamel Standard Colors, Add	204.85	
			For Anodized Finish, Add	273.13	
			For Kynar™ Standard Colors Finish, Add	375.56	
08 91 16 00-0023	EA		18" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	931.46	78.25
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	77.50	
			For Clear Lacquer Finish, Add	154.99	
			For Baked Enamel Standard Colors, Add	232.49	
			For Anodized Finish, Add	309.99	
			For Kynar™ Standard Colors Finish, Add	426.23	
08 91 16 00-0024	EA		18" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,033.46	87.28
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	85.89	
			For Clear Lacquer Finish, Add	171.78	
			For Baked Enamel Standard Colors, Add	257.67	
			For Anodized Finish, Add	343.56	
			For Kynar™ Standard Colors Finish, Add	472.40	
08 91 16 00-0025	EA		18" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,116.51	96.31
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	92.39	
			For Clear Lacquer Finish, Add	184.78	
			For Baked Enamel Standard Colors, Add	277.17	
			For Anodized Finish, Add	369.56	
			For Kynar™ Standard Colors Finish, Add	508.15	
08 91 16 00-0026	EA		18" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,194.18	102.33
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	98.95	
			For Clear Lacquer Finish, Add	197.91	
			For Baked Enamel Standard Colors, Add	296.86	
			For Anodized Finish, Add	395.81	
			For Kynar™ Standard Colors Finish, Add	544.24	
08 91 16 00-0027	EA		18" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,267.44	108.34
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	105.08	
			For Clear Lacquer Finish, Add	210.15	
			For Baked Enamel Standard Colors, Add	315.23	
			For Anodized Finish, Add	420.30	
			For Kynar™ Standard Colors Finish, Add	577.91	
08 91 16 00-0028	EA		18" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,360.88	114.36
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	113.22	
			For Clear Lacquer Finish, Add	226.43	
			For Baked Enamel Standard Colors, Add	339.65	
			For Anodized Finish, Add	452.86	
			For Kynar™ Standard Colors Finish, Add	622.69	
08 91 16 00-0029	EA		18" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	1,451.18	120.38
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	121.04	
			For Clear Lacquer Finish, Add	242.08	
			For Baked Enamel Standard Colors, Add	363.12	
			For Anodized Finish, Add	484.16	
			For Kynar™ Standard Colors Finish, Add	665.73	
08 91 16 00-0030	EA		18" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	1,562.63	129.41
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	130.38	
			For Clear Lacquer Finish, Add	260.76	
			For Baked Enamel Standard Colors, Add	391.14	
			For Anodized Finish, Add	521.52	
			For Kynar™ Standard Colors Finish, Add	717.10	
08 91 16 00-0031	EA		18" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	1,648.85	138.44
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	137.20	
			For Clear Lacquer Finish, Add	274.39	
			For Baked Enamel Standard Colors, Add	411.59	
			For Anodized Finish, Add	548.79	
			For Kynar™ Standard Colors Finish, Add	754.58	
08 91 16 00-0032	EA		24" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	397.58	39.13
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	31.93	
			For Clear Lacquer Finish, Add	63.87	
			For Baked Enamel Standard Colors, Add	95.80	
			For Anodized Finish, Add	127.73	
			For Kynar™ Standard Colors Finish, Add	175.63	

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0033 EA 24" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	503.36	48.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	40.71	
For Clear Lacquer Finish, Add	81.41	
For Baked Enamel Standard Colors, Add	122.12	
For Anodized Finish, Add	162.82	
For Kynar™ Standard Colors Finish, Add	223.88	
08 91 16 00-0034 EA 24" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	621.75	57.18
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	50.74	
For Clear Lacquer Finish, Add	101.48	
For Baked Enamel Standard Colors, Add	152.22	
For Anodized Finish, Add	202.96	
For Kynar™ Standard Colors Finish, Add	279.06	
08 91 16 00-0035 EA 24" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	734.81	69.22
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	59.64	
For Clear Lacquer Finish, Add	119.27	
For Baked Enamel Standard Colors, Add	178.91	
For Anodized Finish, Add	238.55	
For Kynar™ Standard Colors Finish, Add	328.00	
08 91 16 00-0036 EA 24" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	830.78	75.24
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	68.03	
For Clear Lacquer Finish, Add	136.06	
For Baked Enamel Standard Colors, Add	204.09	
For Anodized Finish, Add	272.12	
For Kynar™ Standard Colors Finish, Add	374.17	
08 91 16 00-0037 EA 24" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	931.80	81.26
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	76.93	
For Clear Lacquer Finish, Add	153.86	
For Baked Enamel Standard Colors, Add	230.79	
For Anodized Finish, Add	307.72	
For Kynar™ Standard Colors Finish, Add	423.11	
08 91 16 00-0038 EA 24" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,057.77	90.28
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	87.72	
For Clear Lacquer Finish, Add	175.44	
For Baked Enamel Standard Colors, Add	263.16	
For Anodized Finish, Add	350.88	
For Kynar™ Standard Colors Finish, Add	482.46	
08 91 16 00-0039 EA 24" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,167.68	102.33
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	96.30	
For Clear Lacquer Finish, Add	192.61	
For Baked Enamel Standard Colors, Add	288.91	
For Anodized Finish, Add	385.21	
For Kynar™ Standard Colors Finish, Add	529.67	
08 91 16 00-0040 EA 24" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,250.40	108.34
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	103.37	
For Clear Lacquer Finish, Add	206.74	
For Baked Enamel Standard Colors, Add	310.11	
For Anodized Finish, Add	413.48	
For Kynar™ Standard Colors Finish, Add	568.54	
08 91 16 00-0041 EA 24" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,345.16	120.38
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	110.44	
For Clear Lacquer Finish, Add	220.88	
For Baked Enamel Standard Colors, Add	331.32	
For Anodized Finish, Add	441.76	
For Kynar™ Standard Colors Finish, Add	607.41	
08 91 16 00-0042 EA 24" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,429.13	126.40
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	117.63	
For Clear Lacquer Finish, Add	235.27	
For Baked Enamel Standard Colors, Add	352.90	
For Anodized Finish, Add	470.53	
For Kynar™ Standard Colors Finish, Add	646.98	
08 91 16 00-0043 EA 24" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,541.51	132.42
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	127.67	
For Clear Lacquer Finish, Add	255.33	
For Baked Enamel Standard Colors, Add	383.00	
For Anodized Finish, Add	510.67	
For Kynar™ Standard Colors Finish, Add	702.17	
08 91 16 00-0044 EA 24" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	1,637.49	138.44
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	136.06	
For Clear Lacquer Finish, Add	272.12	
For Baked Enamel Standard Colors, Add	408.18	
For Anodized Finish, Add	544.24	
For Kynar™ Standard Colors Finish, Add	748.34	



<b>Openings</b>	<b>08</b>
Louvers And Vents	08 90
Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0045	EA		24" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	1,759.67	147.47
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	146.47	
			For Clear Lacquer Finish, Add	292.95	
			For Baked Enamel Standard Colors, Add	439.42	
			For Anodized Finish, Add	585.90	
			For Kynar™ Standard Colors Finish, Add	805.61	
08 91 16 00-0046	EA		24" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	1,851.57	156.49
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	153.86	
			For Clear Lacquer Finish, Add	307.71	
			For Baked Enamel Standard Colors, Add	461.57	
			For Anodized Finish, Add	615.43	
			For Kynar™ Standard Colors Finish, Add	846.21	
08 91 16 00-0047	EA		30" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	444.32	45.15
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	35.40	
			For Clear Lacquer Finish, Add	70.81	
			For Baked Enamel Standard Colors, Add	106.21	
			For Anodized Finish, Add	141.62	
			For Kynar™ Standard Colors Finish, Add	194.72	
08 91 16 00-0048	EA		30" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	591.80	60.19
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	47.14	
			For Clear Lacquer Finish, Add	94.28	
			For Baked Enamel Standard Colors, Add	141.43	
			For Anodized Finish, Add	188.57	
			For Kynar™ Standard Colors Finish, Add	259.28	
08 91 16 00-0049	EA		30" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	700.73	69.22
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	56.23	
			For Clear Lacquer Finish, Add	112.46	
			For Baked Enamel Standard Colors, Add	168.69	
			For Anodized Finish, Add	224.92	
			For Kynar™ Standard Colors Finish, Add	309.26	
08 91 16 00-0050	EA		30" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	819.12	78.25
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	66.26	
			For Clear Lacquer Finish, Add	132.53	
			For Baked Enamel Standard Colors, Add	198.79	
			For Anodized Finish, Add	265.05	
			For Kynar™ Standard Colors Finish, Add	364.45	
08 91 16 00-0051	EA		30" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	923.31	84.26
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	75.48	
			For Clear Lacquer Finish, Add	150.95	
			For Baked Enamel Standard Colors, Add	226.43	
			For Anodized Finish, Add	301.91	
			For Kynar™ Standard Colors Finish, Add	415.12	
08 91 16 00-0052	EA		30" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,033.50	93.29
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	84.69	
			For Clear Lacquer Finish, Add	169.38	
			For Baked Enamel Standard Colors, Add	254.07	
			For Anodized Finish, Add	338.76	
			For Kynar™ Standard Colors Finish, Add	465.80	
08 91 16 00-0053	EA		30" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,161.65	99.31
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	96.30	
			For Clear Lacquer Finish, Add	192.61	
			For Baked Enamel Standard Colors, Add	288.91	
			For Anodized Finish, Add	385.21	
			For Kynar™ Standard Colors Finish, Add	529.67	
08 91 16 00-0054	EA		30" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,274.38	108.34
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	105.77	
			For Clear Lacquer Finish, Add	211.54	
			For Baked Enamel Standard Colors, Add	317.31	
			For Anodized Finish, Add	423.08	
			For Kynar™ Standard Colors Finish, Add	581.73	
08 91 16 00-0055	EA		30" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,365.93	114.36
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	113.72	
			For Clear Lacquer Finish, Add	227.44	
			For Baked Enamel Standard Colors, Add	341.16	
			For Anodized Finish, Add	454.88	
			For Kynar™ Standard Colors Finish, Add	625.47	
08 91 16 00-0056	EA		30" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,470.78	126.40
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	121.80	
			For Clear Lacquer Finish, Add	243.60	
			For Baked Enamel Standard Colors, Add	365.39	
			For Anodized Finish, Add	487.19	
			For Kynar™ Standard Colors Finish, Add	669.89	

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0057 EA 30" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,568.98	135.43
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	129.81	
For Clear Lacquer Finish, Add	259.63	
For Baked Enamel Standard Colors, Add	389.44	
For Anodized Finish, Add	519.25	
For Kynar™ Standard Colors Finish, Add	713.97	
08 91 16 00-0058 EA 30" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,688.32	141.44
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	140.54	
For Clear Lacquer Finish, Add	281.08	
For Baked Enamel Standard Colors, Add	421.63	
For Anodized Finish, Add	562.17	
For Kynar™ Standard Colors Finish, Add	772.98	
08 91 16 00-0059 EA 30" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	1,792.48	147.47
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	149.76	
For Clear Lacquer Finish, Add	299.51	
For Baked Enamel Standard Colors, Add	449.27	
For Anodized Finish, Add	599.02	
For Kynar™ Standard Colors Finish, Add	823.65	
08 91 16 00-0060 EA 30" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	1,920.36	156.49
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	160.74	
For Clear Lacquer Finish, Add	321.47	
For Baked Enamel Standard Colors, Add	482.21	
For Anodized Finish, Add	642.94	
For Kynar™ Standard Colors Finish, Add	884.05	
08 91 16 00-0061 EA 30" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,023.61	165.52
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	169.26	
For Clear Lacquer Finish, Add	338.51	
For Baked Enamel Standard Colors, Add	507.77	
For Anodized Finish, Add	677.02	
For Kynar™ Standard Colors Finish, Add	930.91	
08 91 16 00-0062 EA 36" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	487.92	51.16
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	38.56	
For Clear Lacquer Finish, Add	77.12	
For Baked Enamel Standard Colors, Add	115.68	
For Anodized Finish, Add	154.24	
For Kynar™ Standard Colors Finish, Add	212.07	
08 91 16 00-0063 EA 36" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	658.11	66.21
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	52.57	
For Clear Lacquer Finish, Add	105.14	
For Baked Enamel Standard Colors, Add	157.71	
For Anodized Finish, Add	210.28	
For Kynar™ Standard Colors Finish, Add	289.13	
08 91 16 00-0064 EA 36" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	767.68	75.24
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	61.72	
For Clear Lacquer Finish, Add	123.44	
For Baked Enamel Standard Colors, Add	185.16	
For Anodized Finish, Add	246.88	
For Kynar™ Standard Colors Finish, Add	339.46	
08 91 16 00-0065 EA 36" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	896.81	84.26
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	72.83	
For Clear Lacquer Finish, Add	145.65	
For Baked Enamel Standard Colors, Add	218.48	
For Anodized Finish, Add	291.31	
For Kynar™ Standard Colors Finish, Add	400.55	
08 91 16 00-0066 EA 36" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,015.37	91.49
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	83.24	
For Clear Lacquer Finish, Add	166.48	
For Baked Enamel Standard Colors, Add	249.72	
For Anodized Finish, Add	332.96	
For Kynar™ Standard Colors Finish, Add	457.81	
08 91 16 00-0067 EA 36" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,127.57	99.31
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	92.90	
For Clear Lacquer Finish, Add	185.79	
For Baked Enamel Standard Colors, Add	278.69	
For Anodized Finish, Add	371.58	
For Kynar™ Standard Colors Finish, Add	510.92	
08 91 16 00-0068 EA 36" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,270.25	105.33
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	105.96	
For Clear Lacquer Finish, Add	211.92	
For Baked Enamel Standard Colors, Add	317.87	
For Anodized Finish, Add	423.83	
For Kynar™ Standard Colors Finish, Add	582.77	



<b>Openings</b>	<b>08</b>
Louvers And Vents	08 90
Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0069	EA		36" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,396.22	114.36
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	116.75	
			For Clear Lacquer Finish, Add	233.50	
			For Baked Enamel Standard Colors, Add	350.25	
			For Anodized Finish, Add	467.00	
			For Kynar™ Standard Colors Finish, Add	642.13	
08 91 16 00-0070	EA		36" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,500.10	123.39
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	125.33	
			For Clear Lacquer Finish, Add	250.66	
			For Baked Enamel Standard Colors, Add	376.00	
			For Anodized Finish, Add	501.33	
			For Kynar™ Standard Colors Finish, Add	689.33	
08 91 16 00-0071	EA		36" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,606.52	132.42
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	134.17	
			For Clear Lacquer Finish, Add	268.34	
			For Baked Enamel Standard Colors, Add	402.50	
			For Anodized Finish, Add	536.67	
			For Kynar™ Standard Colors Finish, Add	737.92	
08 91 16 00-0072	EA		36" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,716.08	141.44
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	143.32	
			For Clear Lacquer Finish, Add	286.64	
			For Baked Enamel Standard Colors, Add	429.95	
			For Anodized Finish, Add	573.27	
			For Kynar™ Standard Colors Finish, Add	788.25	
08 91 16 00-0073	EA		36" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,846.12	147.47
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	155.12	
			For Clear Lacquer Finish, Add	310.24	
			For Baked Enamel Standard Colors, Add	465.36	
			For Anodized Finish, Add	620.48	
			For Kynar™ Standard Colors Finish, Add	853.15	
08 91 16 00-0074	EA		36" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	1,957.88	153.49
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	165.09	
			For Clear Lacquer Finish, Add	330.18	
			For Baked Enamel Standard Colors, Add	495.27	
			For Anodized Finish, Add	660.36	
			For Kynar™ Standard Colors Finish, Add	908.00	
08 91 16 00-0075	EA		36" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,101.52	162.51
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	177.65	
			For Clear Lacquer Finish, Add	355.30	
			For Baked Enamel Standard Colors, Add	532.95	
			For Anodized Finish, Add	710.60	
			For Kynar™ Standard Colors Finish, Add	977.07	
08 91 16 00-0076	EA		36" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,210.45	171.54
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	186.74	
			For Clear Lacquer Finish, Add	373.47	
			For Baked Enamel Standard Colors, Add	560.21	
			For Anodized Finish, Add	746.95	
			For Kynar™ Standard Colors Finish, Add	1,027.05	
08 91 16 00-0077	EA		42" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	557.38	57.18
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	44.30	
			For Clear Lacquer Finish, Add	88.60	
			For Baked Enamel Standard Colors, Add	132.91	
			For Anodized Finish, Add	177.21	
			For Kynar™ Standard Colors Finish, Add	243.66	
08 91 16 00-0078	EA		42" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	710.54	72.23
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	56.61	
			For Clear Lacquer Finish, Add	113.22	
			For Baked Enamel Standard Colors, Add	169.82	
			For Anodized Finish, Add	226.43	
			For Kynar™ Standard Colors Finish, Add	311.34	
08 91 16 00-0079	EA		42" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	831.45	81.26
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	66.89	
			For Clear Lacquer Finish, Add	133.79	
			For Baked Enamel Standard Colors, Add	200.68	
			For Anodized Finish, Add	267.58	
			For Kynar™ Standard Colors Finish, Add	367.92	
08 91 16 00-0080	EA		42" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	971.02	93.29
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	78.44	
			For Clear Lacquer Finish, Add	156.89	
			For Baked Enamel Standard Colors, Add	235.33	
			For Anodized Finish, Add	313.77	
			For Kynar™ Standard Colors Finish, Add	431.44	

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0081 EA 42" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,096.02	99.31
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	89.74	
For Clear Lacquer Finish, Add	179.48	
For Baked Enamel Standard Colors, Add	269.22	
For Anodized Finish, Add	358.96	
For Kynar™ Standard Colors Finish, Add	493.57	
08 91 16 00-0082 EA 42" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,214.72	105.33
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	100.41	
For Clear Lacquer Finish, Add	200.81	
For Baked Enamel Standard Colors, Add	301.22	
For Anodized Finish, Add	401.62	
For Kynar™ Standard Colors Finish, Add	552.23	
08 91 16 00-0083 EA 42" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,369.37	111.36
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	114.67	
For Clear Lacquer Finish, Add	229.33	
For Baked Enamel Standard Colors, Add	344.00	
For Anodized Finish, Add	458.67	
For Kynar™ Standard Colors Finish, Add	630.67	
08 91 16 00-0084 EA 42" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,497.25	120.38
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	125.65	
For Clear Lacquer Finish, Add	251.30	
For Baked Enamel Standard Colors, Add	376.94	
For Anodized Finish, Add	502.59	
For Kynar™ Standard Colors Finish, Add	691.06	
08 91 16 00-0085 EA 42" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,613.12	129.41
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	135.43	
For Clear Lacquer Finish, Add	270.86	
For Baked Enamel Standard Colors, Add	406.29	
For Anodized Finish, Add	541.72	
For Kynar™ Standard Colors Finish, Add	744.87	
08 91 16 00-0086 EA 42" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,722.05	138.44
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	144.52	
For Clear Lacquer Finish, Add	289.03	
For Baked Enamel Standard Colors, Add	433.55	
For Anodized Finish, Add	578.07	
For Kynar™ Standard Colors Finish, Add	794.84	
08 91 16 00-0087 EA 42" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,840.44	147.47
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	154.55	
For Clear Lacquer Finish, Add	309.10	
For Baked Enamel Standard Colors, Add	463.65	
For Anodized Finish, Add	618.20	
For Kynar™ Standard Colors Finish, Add	850.03	
08 91 16 00-0088 EA 42" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	1,979.96	153.49
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	167.30	
For Clear Lacquer Finish, Add	334.60	
For Baked Enamel Standard Colors, Add	501.90	
For Anodized Finish, Add	669.20	
For Kynar™ Standard Colors Finish, Add	920.14	
08 91 16 00-0089 EA 42" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,101.81	159.51
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	178.28	
For Clear Lacquer Finish, Add	356.56	
For Baked Enamel Standard Colors, Add	534.84	
For Anodized Finish, Add	713.12	
For Kynar™ Standard Colors Finish, Add	980.54	
08 91 16 00-0090 EA 42" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,261.86	168.54
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	192.48	
For Clear Lacquer Finish, Add	384.96	
For Baked Enamel Standard Colors, Add	577.44	
For Anodized Finish, Add	769.92	
For Kynar™ Standard Colors Finish, Add	1,058.63	
08 91 16 00-0091 EA 42" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,375.22	177.56
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	202.01	
For Clear Lacquer Finish, Add	404.02	
For Baked Enamel Standard Colors, Add	606.03	
For Anodized Finish, Add	808.04	
For Kynar™ Standard Colors Finish, Add	1,111.05	
08 91 16 00-0092 EA 48" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	604.13	63.20
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	47.77	
For Clear Lacquer Finish, Add	95.55	
For Baked Enamel Standard Colors, Add	143.32	
For Anodized Finish, Add	191.09	
For Kynar™ Standard Colors Finish, Add	262.75	





<b>Openings</b>	<b>08</b>
Louvers And Vents	08 90
Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0093	EA		48" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	766.11	78.25
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	60.96	
			For Clear Lacquer Finish, Add	121.92	
			For Baked Enamel Standard Colors, Add	182.89	
			For Anodized Finish, Add	243.85	
			For Kynar™ Standard Colors Finish, Add	335.29	
08 91 16 00-0094	EA		48" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	905.05	90.28
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	72.45	
			For Clear Lacquer Finish, Add	144.90	
			For Baked Enamel Standard Colors, Add	217.34	
			For Anodized Finish, Add	289.79	
			For Kynar™ Standard Colors Finish, Add	398.46	
08 91 16 00-0095	EA		48" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,045.53	99.31
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	84.69	
			For Clear Lacquer Finish, Add	169.38	
			For Baked Enamel Standard Colors, Add	254.07	
			For Anodized Finish, Add	338.76	
			For Kynar™ Standard Colors Finish, Add	465.80	
08 91 16 00-0096	EA		48" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,183.16	105.33
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	97.25	
			For Clear Lacquer Finish, Add	194.50	
			For Baked Enamel Standard Colors, Add	291.75	
			For Anodized Finish, Add	389.00	
			For Kynar™ Standard Colors Finish, Add	534.87	
08 91 16 00-0097	EA		48" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,316.36	111.36
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	109.37	
			For Clear Lacquer Finish, Add	218.73	
			For Baked Enamel Standard Colors, Add	328.10	
			For Anodized Finish, Add	437.46	
			For Kynar™ Standard Colors Finish, Add	601.51	
08 91 16 00-0098	EA		48" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,483.37	120.38
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	124.26	
			For Clear Lacquer Finish, Add	248.52	
			For Baked Enamel Standard Colors, Add	372.78	
			For Anodized Finish, Add	497.04	
			For Kynar™ Standard Colors Finish, Add	683.43	
08 91 16 00-0099	EA		48" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum.....	1,622.58	129.41
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	136.38	
			For Clear Lacquer Finish, Add	272.75	
			For Baked Enamel Standard Colors, Add	409.13	
			For Anodized Finish, Add	545.50	
			For Kynar™ Standard Colors Finish, Add	750.07	
08 91 16 00-0100	EA		48" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum.....	1,744.14	138.44
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	146.73	
			For Clear Lacquer Finish, Add	293.45	
			For Baked Enamel Standard Colors, Add	440.18	
			For Anodized Finish, Add	586.90	
			For Kynar™ Standard Colors Finish, Add	806.99	
08 91 16 00-0101	EA		48" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum.....	1,867.58	147.47
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	157.27	
			For Clear Lacquer Finish, Add	314.53	
			For Baked Enamel Standard Colors, Add	471.80	
			For Anodized Finish, Add	629.06	
			For Kynar™ Standard Colors Finish, Add	864.96	
08 91 16 00-0102	EA		48" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	1,988.52	156.49
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	167.55	
			For Clear Lacquer Finish, Add	335.10	
			For Baked Enamel Standard Colors, Add	502.66	
			For Anodized Finish, Add	670.21	
			For Kynar™ Standard Colors Finish, Add	921.54	
08 91 16 00-0103	EA		48" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,145.70	162.51
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	182.07	
			For Clear Lacquer Finish, Add	364.13	
			For Baked Enamel Standard Colors, Add	546.20	
			For Anodized Finish, Add	728.27	
			For Kynar™ Standard Colors Finish, Add	1,001.37	
08 91 16 00-0104	EA		48" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,277.01	168.54
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	193.99	
			For Clear Lacquer Finish, Add	387.99	
			For Baked Enamel Standard Colors, Add	581.98	
			For Anodized Finish, Add	775.98	
			For Kynar™ Standard Colors Finish, Add	1,066.97	

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	16 00-0105	EA	48" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,437.98	174.56
			<i>For Flange Frame, Add</i>	208.89	
			<i>For Clear Lacquer Finish, Add</i>	417.77	
			<i>For Baked Enamel Standard Colors, Add</i>	626.66	
			<i>For Anodized Finish, Add</i>	835.55	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,148.88	
08 91	16 00-0106	EA	48" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,562.06	183.59
			<i>For Flange Frame, Add</i>	219.49	
			<i>For Clear Lacquer Finish, Add</i>	438.98	
			<i>For Baked Enamel Standard Colors, Add</i>	658.47	
			<i>For Anodized Finish, Add</i>	877.96	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,207.20	
08 91	16 00-0107	EA	54" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	700.44	72.23
			<i>For Flange Frame, Add</i>	55.60	
			<i>For Clear Lacquer Finish, Add</i>	111.20	
			<i>For Baked Enamel Standard Colors, Add</i>	166.79	
			<i>For Anodized Finish, Add</i>	222.39	
			<i>For Kynar™ Standard Colors Finish, Add</i>	305.79	
08 91	16 00-0108	EA	54" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	893.99	87.28
			<i>For Flange Frame, Add</i>	71.94	
			<i>For Clear Lacquer Finish, Add</i>	143.89	
			<i>For Baked Enamel Standard Colors, Add</i>	215.83	
			<i>For Anodized Finish, Add</i>	287.77	
			<i>For Kynar™ Standard Colors Finish, Add</i>	395.69	
08 91	16 00-0109	EA	54" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,047.77	102.33
			<i>For Flange Frame, Add</i>	84.31	
			<i>For Clear Lacquer Finish, Add</i>	168.62	
			<i>For Baked Enamel Standard Colors, Add</i>	252.94	
			<i>For Anodized Finish, Add</i>	337.25	
			<i>For Kynar™ Standard Colors Finish, Add</i>	463.72	
08 91	16 00-0110	EA	54" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,196.76	108.34
			<i>For Flange Frame, Add</i>	98.01	
			<i>For Clear Lacquer Finish, Add</i>	196.01	
			<i>For Baked Enamel Standard Colors, Add</i>	294.02	
			<i>For Anodized Finish, Add</i>	392.03	
			<i>For Kynar™ Standard Colors Finish, Add</i>	539.04	
08 91	16 00-0111	EA	54" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,358.35	114.36
			<i>For Flange Frame, Add</i>	112.96	
			<i>For Clear Lacquer Finish, Add</i>	225.93	
			<i>For Baked Enamel Standard Colors, Add</i>	338.89	
			<i>For Anodized Finish, Add</i>	451.85	
			<i>For Kynar™ Standard Colors Finish, Add</i>	621.30	
08 91	16 00-0112	EA	54" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,503.56	120.38
			<i>For Flange Frame, Add</i>	126.28	
			<i>For Clear Lacquer Finish, Add</i>	252.56	
			<i>For Baked Enamel Standard Colors, Add</i>	378.84	
			<i>For Anodized Finish, Add</i>	505.12	
			<i>For Kynar™ Standard Colors Finish, Add</i>	694.53	
08 91	16 00-0113	EA	54" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,696.42	129.41
			<i>For Flange Frame, Add</i>	143.76	
			<i>For Clear Lacquer Finish, Add</i>	287.52	
			<i>For Baked Enamel Standard Colors, Add</i>	431.28	
			<i>For Anodized Finish, Add</i>	575.04	
			<i>For Kynar™ Standard Colors Finish, Add</i>	790.68	
08 91	16 00-0114	EA	54" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,884.24	138.44
			<i>For Flange Frame, Add</i>	160.74	
			<i>For Clear Lacquer Finish, Add</i>	321.47	
			<i>For Baked Enamel Standard Colors, Add</i>	482.21	
			<i>For Anodized Finish, Add</i>	642.94	
			<i>For Kynar™ Standard Colors Finish, Add</i>	884.05	
08 91	16 00-0115	EA	54" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,026.61	147.47
			<i>For Flange Frame, Add</i>	173.17	
			<i>For Clear Lacquer Finish, Add</i>	346.34	
			<i>For Baked Enamel Standard Colors, Add</i>	519.50	
			<i>For Anodized Finish, Add</i>	692.67	
			<i>For Kynar™ Standard Colors Finish, Add</i>	952.42	
08 91	16 00-0116	EA	54" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,167.11	156.49
			<i>For Flange Frame, Add</i>	185.41	
			<i>For Clear Lacquer Finish, Add</i>	370.82	
			<i>For Baked Enamel Standard Colors, Add</i>	556.23	
			<i>For Anodized Finish, Add</i>	741.64	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,019.76	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 16 00-0117	EA		54" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum.....	2,300.31	162.51
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	197.53	
			For Clear Lacquer Finish, Add	395.06	
			For Baked Enamel Standard Colors, Add	592.58	
			For Anodized Finish, Add	790.11	
			For Kynar™ Standard Colors Finish, Add	1,086.40	
08 91 16 00-0118	EA		54" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum.....	2,475.17	168.54
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	213.81	
			For Clear Lacquer Finish, Add	427.62	
			For Baked Enamel Standard Colors, Add	641.43	
			For Anodized Finish, Add	855.24	
			For Kynar™ Standard Colors Finish, Add	1,175.96	
08 91 16 00-0119	EA		54" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum.....	2,621.63	174.56
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	227.25	
			For Clear Lacquer Finish, Add	454.50	
			For Baked Enamel Standard Colors, Add	681.76	
			For Anodized Finish, Add	909.01	
			For Kynar™ Standard Colors Finish, Add	1,249.89	
08 91 16 00-0120	EA		54" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum.....	2,809.11	180.57
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	244.80	
			For Clear Lacquer Finish, Add	489.59	
			For Baked Enamel Standard Colors, Add	734.39	
			For Anodized Finish, Add	979.18	
			For Kynar™ Standard Colors Finish, Add	1,346.38	
08 91 16 00-0121	EA		54" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum.....	2,952.74	189.60
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	257.35	
			For Clear Lacquer Finish, Add	514.71	
			For Baked Enamel Standard Colors, Add	772.06	
			For Anodized Finish, Add	1,029.42	
			For Kynar™ Standard Colors Finish, Add	1,415.45	
08 91 16 00-0122	EA		60" Wide x 12" High Adjustable Intake Louver, Galvanized Aluminum.....	744.66	78.25
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	58.82	
			For Clear Lacquer Finish, Add	117.63	
			For Baked Enamel Standard Colors, Add	176.45	
			For Anodized Finish, Add	235.27	
			For Kynar™ Standard Colors Finish, Add	323.49	
08 91 16 00-0123	EA		60" Wide x 18" High Adjustable Intake Louver, Galvanized Aluminum.....	955.59	96.31
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	76.30	
			For Clear Lacquer Finish, Add	152.60	
			For Baked Enamel Standard Colors, Add	228.89	
			For Anodized Finish, Add	305.19	
			For Kynar™ Standard Colors Finish, Add	419.64	
08 91 16 00-0124	EA		60" Wide x 24" High Adjustable Intake Louver, Galvanized Aluminum.....	1,110.30	108.34
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	89.36	
			For Clear Lacquer Finish, Add	178.72	
			For Baked Enamel Standard Colors, Add	268.08	
			For Anodized Finish, Add	357.44	
			For Kynar™ Standard Colors Finish, Add	491.49	
08 91 16 00-0125	EA		60" Wide x 30" High Adjustable Intake Louver, Galvanized Aluminum.....	1,273.79	114.36
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	104.51	
			For Clear Lacquer Finish, Add	209.01	
			For Baked Enamel Standard Colors, Add	313.52	
			For Anodized Finish, Add	418.03	
			For Kynar™ Standard Colors Finish, Add	574.79	
08 91 16 00-0126	EA		60" Wide x 36" High Adjustable Intake Louver, Galvanized Aluminum.....	1,447.09	123.39
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	120.03	
			For Clear Lacquer Finish, Add	240.06	
			For Baked Enamel Standard Colors, Add	360.09	
			For Anodized Finish, Add	480.12	
			For Kynar™ Standard Colors Finish, Add	660.17	
08 91 16 00-0127	EA		60" Wide x 42" High Adjustable Intake Louver, Galvanized Aluminum.....	1,600.50	129.41
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	134.17	
			For Clear Lacquer Finish, Add	268.34	
			For Baked Enamel Standard Colors, Add	402.50	
			For Anodized Finish, Add	536.67	
			For Kynar™ Standard Colors Finish, Add	737.92	
08 91 16 00-0128	EA		60" Wide x 48" High Adjustable Intake Louver, Galvanized Aluminum.....	1,806.62	138.44
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	152.97	
			For Clear Lacquer Finish, Add	305.95	
			For Baked Enamel Standard Colors, Add	458.92	
			For Anodized Finish, Add	611.90	
			For Kynar™ Standard Colors Finish, Add	841.36	

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	16 00-0129	EA	60" Wide x 54" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,999.48	147.47
			<i>For Flange Frame, Add</i>	170.46	
			<i>For Clear Lacquer Finish, Add</i>	340.91	
			<i>For Baked Enamel Standard Colors, Add</i>	511.37	
			<i>For Anodized Finish, Add</i>	681.82	
			<i>For Kynar™ Standard Colors Finish, Add</i>	937.50	
08 91	16 00-0130	EA	60" Wide x 60" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,151.34	156.49
			<i>For Flange Frame, Add</i>	183.83	
			<i>For Clear Lacquer Finish, Add</i>	367.67	
			<i>For Baked Enamel Standard Colors, Add</i>	551.50	
			<i>For Anodized Finish, Add</i>	735.34	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,011.09	
08 91	16 00-0131	EA	60" Wide x 66" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,300.65	165.52
			<i>For Flange Frame, Add</i>	196.96	
			<i>For Clear Lacquer Finish, Add</i>	393.92	
			<i>For Baked Enamel Standard Colors, Add</i>	590.88	
			<i>For Anodized Finish, Add</i>	787.84	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,083.28	
08 91	16 00-0132	EA	60" Wide x 72" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,442.05	171.54
			<i>For Flange Frame, Add</i>	209.90	
			<i>For Clear Lacquer Finish, Add</i>	419.79	
			<i>For Baked Enamel Standard Colors, Add</i>	629.69	
			<i>For Anodized Finish, Add</i>	839.59	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,154.43	
08 91	16 00-0133	EA	60" Wide x 78" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,631.44	177.56
			<i>For Flange Frame, Add</i>	227.63	
			<i>For Clear Lacquer Finish, Add</i>	455.26	
			<i>For Baked Enamel Standard Colors, Add</i>	682.89	
			<i>For Anodized Finish, Add</i>	910.52	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,251.97	
08 91	16 00-0134	EA	60" Wide x 84" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,784.83	183.59
			<i>For Flange Frame, Add</i>	241.77	
			<i>For Clear Lacquer Finish, Add</i>	483.53	
			<i>For Baked Enamel Standard Colors, Add</i>	725.30	
			<i>For Anodized Finish, Add</i>	967.07	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,329.72	
08 91	16 00-0135	EA	60" Wide x 90" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	2,981.77	189.60
			<i>For Flange Frame, Add</i>	260.26	
			<i>For Clear Lacquer Finish, Add</i>	520.51	
			<i>For Baked Enamel Standard Colors, Add</i>	780.77	
			<i>For Anodized Finish, Add</i>	1,041.03	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,431.41	
08 91	16 00-0136	EA	60" Wide x 96" High Adjustable Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	3,127.60	195.62
			<i>For Flange Frame, Add</i>	273.64	
			<i>For Clear Lacquer Finish, Add</i>	547.27	
			<i>For Baked Enamel Standard Colors, Add</i>	820.91	
			<i>For Anodized Finish, Add</i>	1,094.54	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,505.00	
08 91	16 00-0137		<b>Adjustable Intake Wall Louvers Operators</b> <small>(08 91 16)</small>		
08 91	16 00-0138	EA	5' Chain Actuator For Adjustable Intake Louver.....	196.50	30.10
08 91	16 00-0139	EA	Panel Crank For Adjustable Intake Louver .....	388.84	12.03
<b>08 91 19</b>			<b>Fixed Louvers</b> <small>(08 91)</small>		
08 91	19 00-0001		<b>Fixed Intake Wall Louvers</b> <small>(08 91 19)</small>		
08 91	19 00-0002	EA	12" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	244.76	27.08
			<i>For Flange Frame, Add</i>	19.06	
			<i>For Clear Lacquer Finish, Add</i>	38.12	
			<i>For Baked Enamel Standard Colors, Add</i>	57.18	
			<i>For Anodized Finish, Add</i>	76.24	
			<i>For Kynar™ Standard Colors Finish, Add</i>	104.82	
08 91	19 00-0003	EA	12" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	291.51	33.10
			<i>For Flange Frame, Add</i>	22.53	
			<i>For Clear Lacquer Finish, Add</i>	45.06	
			<i>For Baked Enamel Standard Colors, Add</i>	67.59	
			<i>For Anodized Finish, Add</i>	90.12	
			<i>For Kynar™ Standard Colors Finish, Add</i>	123.92	



<b>Openings</b>	<b>08</b>
Louvers And Vents	08 90
Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0004	EA	12" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	338.89	39.13
			<i>For Flange Frame, Add</i>	26.06	
			<i>For Clear Lacquer Finish, Add</i>	52.13	
			<i>For Baked Enamel Standard Colors, Add</i>	78.19	
			<i>For Anodized Finish, Add</i>	104.26	
			<i>For Kynar™ Standard Colors Finish, Add</i>	143.35	
08 91	19 00-0005	EA	12" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	396.98	45.15
			<i>For Flange Frame, Add</i>	30.67	
			<i>For Clear Lacquer Finish, Add</i>	61.34	
			<i>For Baked Enamel Standard Colors, Add</i>	92.01	
			<i>For Anodized Finish, Add</i>	122.68	
			<i>For Kynar™ Standard Colors Finish, Add</i>	168.69	
08 91	19 00-0006	EA	12" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	446.90	51.16
			<i>For Flange Frame, Add</i>	34.46	
			<i>For Clear Lacquer Finish, Add</i>	68.91	
			<i>For Baked Enamel Standard Colors, Add</i>	103.37	
			<i>For Anodized Finish, Add</i>	137.83	
			<i>For Kynar™ Standard Colors Finish, Add</i>	189.51	
08 91	19 00-0007	EA	12" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	524.56	57.18
			<i>For Flange Frame, Add</i>	41.02	
			<i>For Clear Lacquer Finish, Add</i>	82.04	
			<i>For Baked Enamel Standard Colors, Add</i>	123.06	
			<i>For Anodized Finish, Add</i>	164.08	
			<i>For Kynar™ Standard Colors Finish, Add</i>	225.61	
08 91	19 00-0008	EA	12" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	569.42	63.20
			<i>For Flange Frame, Add</i>	44.30	
			<i>For Clear Lacquer Finish, Add</i>	88.60	
			<i>For Baked Enamel Standard Colors, Add</i>	132.91	
			<i>For Anodized Finish, Add</i>	177.21	
			<i>For Kynar™ Standard Colors Finish, Add</i>	243.66	
08 91	19 00-0009	EA	12" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	637.96	72.23
			<i>For Flange Frame, Add</i>	49.35	
			<i>For Clear Lacquer Finish, Add</i>	98.70	
			<i>For Baked Enamel Standard Colors, Add</i>	148.05	
			<i>For Anodized Finish, Add</i>	197.40	
			<i>For Kynar™ Standard Colors Finish, Add</i>	271.43	
08 91	19 00-0010	EA	12" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	679.66	78.25
			<i>For Flange Frame, Add</i>	52.32	
			<i>For Clear Lacquer Finish, Add</i>	104.63	
			<i>For Baked Enamel Standard Colors, Add</i>	156.95	
			<i>For Anodized Finish, Add</i>	209.27	
			<i>For Kynar™ Standard Colors Finish, Add</i>	287.74	
08 91	19 00-0011	EA	12" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	734.62	84.26
			<i>For Flange Frame, Add</i>	56.61	
			<i>For Clear Lacquer Finish, Add</i>	113.22	
			<i>For Baked Enamel Standard Colors, Add</i>	169.82	
			<i>For Anodized Finish, Add</i>	226.43	
			<i>For Kynar™ Standard Colors Finish, Add</i>	311.34	
08 91	19 00-0012	EA	12" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	783.25	90.28
			<i>For Flange Frame, Add</i>	60.27	
			<i>For Clear Lacquer Finish, Add</i>	120.54	
			<i>For Baked Enamel Standard Colors, Add</i>	180.80	
			<i>For Anodized Finish, Add</i>	241.07	
			<i>For Kynar™ Standard Colors Finish, Add</i>	331.47	
08 91	19 00-0013	EA	12" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	840.10	96.31
			<i>For Flange Frame, Add</i>	64.75	
			<i>For Clear Lacquer Finish, Add</i>	129.50	
			<i>For Baked Enamel Standard Colors, Add</i>	194.25	
			<i>For Anodized Finish, Add</i>	259.00	
			<i>For Kynar™ Standard Colors Finish, Add</i>	356.12	
08 91	19 00-0014	EA	12" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	893.79	102.33
			<i>For Flange Frame, Add</i>	68.91	
			<i>For Clear Lacquer Finish, Add</i>	137.83	
			<i>For Baked Enamel Standard Colors, Add</i>	206.74	
			<i>For Anodized Finish, Add</i>	275.66	
			<i>For Kynar™ Standard Colors Finish, Add</i>	379.03	
08 91	19 00-0015	EA	12" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	944.66	111.36
			<i>For Flange Frame, Add</i>	72.20	
			<i>For Clear Lacquer Finish, Add</i>	144.39	
			<i>For Baked Enamel Standard Colors, Add</i>	216.59	
			<i>For Anodized Finish, Add</i>	288.78	
			<i>For Kynar™ Standard Colors Finish, Add</i>	397.08	

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0016 EA 12" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,010.06	120.38
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	76.93	
For Clear Lacquer Finish, Add	153.86	
For Baked Enamel Standard Colors, Add	230.79	
For Anodized Finish, Add	307.72	
For Kynar™ Standard Colors Finish, Add	423.11	
08 91 19 00-0017 EA 18" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	285.83	33.10
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	21.96	
For Clear Lacquer Finish, Add	43.92	
For Baked Enamel Standard Colors, Add	65.89	
For Anodized Finish, Add	87.85	
For Kynar™ Standard Colors Finish, Add	120.79	
08 91 19 00-0018 EA 18" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	344.90	42.13
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	26.06	
For Clear Lacquer Finish, Add	52.13	
For Baked Enamel Standard Colors, Add	78.19	
For Anodized Finish, Add	104.26	
For Kynar™ Standard Colors Finish, Add	143.35	
08 91 19 00-0019 EA 18" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	399.23	48.15
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	30.29	
For Clear Lacquer Finish, Add	60.58	
For Baked Enamel Standard Colors, Add	90.88	
For Anodized Finish, Add	121.17	
For Kynar™ Standard Colors Finish, Add	166.61	
08 91 19 00-0020 EA 18" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	500.29	60.19
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	37.99	
For Clear Lacquer Finish, Add	75.98	
For Baked Enamel Standard Colors, Add	113.97	
For Anodized Finish, Add	151.96	
For Kynar™ Standard Colors Finish, Add	208.95	
08 91 19 00-0021 EA 18" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	571.65	66.21
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	43.92	
For Clear Lacquer Finish, Add	87.85	
For Baked Enamel Standard Colors, Add	131.77	
For Anodized Finish, Add	175.69	
For Kynar™ Standard Colors Finish, Add	241.58	
08 91 19 00-0022 EA 18" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	635.44	72.23
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	49.10	
For Clear Lacquer Finish, Add	98.20	
For Baked Enamel Standard Colors, Add	147.29	
For Anodized Finish, Add	196.39	
For Kynar™ Standard Colors Finish, Add	270.04	
08 91 19 00-0023 EA 18" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	682.18	78.25
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	52.57	
For Clear Lacquer Finish, Add	105.14	
For Baked Enamel Standard Colors, Add	157.71	
For Anodized Finish, Add	210.28	
For Kynar™ Standard Colors Finish, Add	289.13	
08 91 19 00-0024 EA 18" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	759.57	87.28
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	58.50	
For Clear Lacquer Finish, Add	117.00	
For Baked Enamel Standard Colors, Add	175.50	
For Anodized Finish, Add	234.00	
For Kynar™ Standard Colors Finish, Add	321.76	
08 91 19 00-0025 EA 18" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	816.12	96.31
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	62.35	
For Clear Lacquer Finish, Add	124.70	
For Baked Enamel Standard Colors, Add	187.05	
For Anodized Finish, Add	249.40	
For Kynar™ Standard Colors Finish, Add	342.93	
08 91 19 00-0026 EA 18" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	884.95	102.33
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	68.03	
For Clear Lacquer Finish, Add	136.06	
For Baked Enamel Standard Colors, Add	204.09	
For Anodized Finish, Add	272.12	
For Kynar™ Standard Colors Finish, Add	374.17	
08 91 19 00-0027 EA 18" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	938.65	108.34
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	72.20	
For Clear Lacquer Finish, Add	144.39	
For Baked Enamel Standard Colors, Add	216.59	
For Anodized Finish, Add	288.78	
For Kynar™ Standard Colors Finish, Add	397.08	



<b>Openings</b>	<b>08</b>
Louvers And Vents	08 90
Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0028	EA	18" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	998.01	114.36
			<i>For Flange Frame, Add</i>	76.93	
			<i>For Clear Lacquer Finish, Add</i>	153.86	
			<i>For Baked Enamel Standard Colors, Add</i>	230.79	
			<i>For Anodized Finish, Add</i>	307.72	
			<i>For Kynar™ Standard Colors Finish, Add</i>	423.11	
08 91	19 00-0029	EA	18" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,059.91	120.38
			<i>For Flange Frame, Add</i>	81.91	
			<i>For Clear Lacquer Finish, Add</i>	163.83	
			<i>For Baked Enamel Standard Colors, Add</i>	245.74	
			<i>For Anodized Finish, Add</i>	327.66	
			<i>For Kynar™ Standard Colors Finish, Add</i>	450.53	
08 91	19 00-0030	EA	18" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,117.72	129.41
			<i>For Flange Frame, Add</i>	85.89	
			<i>For Clear Lacquer Finish, Add</i>	171.78	
			<i>For Baked Enamel Standard Colors, Add</i>	257.67	
			<i>For Anodized Finish, Add</i>	343.56	
			<i>For Kynar™ Standard Colors Finish, Add</i>	472.40	
08 91	19 00-0031	EA	18" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,195.10	138.44
			<i>For Flange Frame, Add</i>	91.82	
			<i>For Clear Lacquer Finish, Add</i>	183.64	
			<i>For Baked Enamel Standard Colors, Add</i>	275.47	
			<i>For Anodized Finish, Add</i>	367.29	
			<i>For Kynar™ Standard Colors Finish, Add</i>	505.02	
08 91	19 00-0032	EA	24" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	331.31	39.13
			<i>For Flange Frame, Add</i>	25.31	
			<i>For Clear Lacquer Finish, Add</i>	50.61	
			<i>For Baked Enamel Standard Colors, Add</i>	75.92	
			<i>For Anodized Finish, Add</i>	101.22	
			<i>For Kynar™ Standard Colors Finish, Add</i>	139.18	
08 91	19 00-0033	EA	24" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	396.07	48.15
			<i>For Flange Frame, Add</i>	29.98	
			<i>For Clear Lacquer Finish, Add</i>	59.95	
			<i>For Baked Enamel Standard Colors, Add</i>	89.93	
			<i>For Anodized Finish, Add</i>	119.90	
			<i>For Kynar™ Standard Colors Finish, Add</i>	164.87	
08 91	19 00-0034	EA	24" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	488.59	57.18
			<i>For Flange Frame, Add</i>	37.42	
			<i>For Clear Lacquer Finish, Add</i>	74.85	
			<i>For Baked Enamel Standard Colors, Add</i>	112.27	
			<i>For Anodized Finish, Add</i>	149.69	
			<i>For Kynar™ Standard Colors Finish, Add</i>	205.83	
08 91	19 00-0035	EA	24" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	577.67	69.22
			<i>For Flange Frame, Add</i>	43.92	
			<i>For Clear Lacquer Finish, Add</i>	87.85	
			<i>For Baked Enamel Standard Colors, Add</i>	131.77	
			<i>For Anodized Finish, Add</i>	175.69	
			<i>For Kynar™ Standard Colors Finish, Add</i>	241.58	
08 91	19 00-0036	EA	24" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	657.87	75.24
			<i>For Flange Frame, Add</i>	50.74	
			<i>For Clear Lacquer Finish, Add</i>	101.48	
			<i>For Baked Enamel Standard Colors, Add</i>	152.22	
			<i>For Anodized Finish, Add</i>	202.96	
			<i>For Kynar™ Standard Colors Finish, Add</i>	279.06	
08 91	19 00-0037	EA	24" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	732.38	81.26
			<i>For Flange Frame, Add</i>	56.99	
			<i>For Clear Lacquer Finish, Add</i>	113.97	
			<i>For Baked Enamel Standard Colors, Add</i>	170.96	
			<i>For Anodized Finish, Add</i>	227.95	
			<i>For Kynar™ Standard Colors Finish, Add</i>	313.43	
08 91	19 00-0038	EA	24" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	797.77	90.28
			<i>For Flange Frame, Add</i>	61.72	
			<i>For Clear Lacquer Finish, Add</i>	123.44	
			<i>For Baked Enamel Standard Colors, Add</i>	185.16	
			<i>For Anodized Finish, Add</i>	246.88	
			<i>For Kynar™ Standard Colors Finish, Add</i>	339.46	
08 91	19 00-0039	EA	24" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	884.95	102.33
			<i>For Flange Frame, Add</i>	68.03	
			<i>For Clear Lacquer Finish, Add</i>	136.06	
			<i>For Baked Enamel Standard Colors, Add</i>	204.09	
			<i>For Anodized Finish, Add</i>	272.12	
			<i>For Kynar™ Standard Colors Finish, Add</i>	374.17	

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0040	EA	24" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	941.17	108.34
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	72.45	
			For Clear Lacquer Finish, Add	144.90	
			For Baked Enamel Standard Colors, Add	217.34	
			For Anodized Finish, Add	289.79	
			For Kynar™ Standard Colors Finish, Add	398.46	
08 91	19 00-0041	EA	24" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,035.30	120.38
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	79.45	
			For Clear Lacquer Finish, Add	158.91	
			For Baked Enamel Standard Colors, Add	238.36	
			For Anodized Finish, Add	317.81	
			For Kynar™ Standard Colors Finish, Add	436.99	
08 91	19 00-0042	EA	24" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,093.40	126.40
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	84.06	
			For Clear Lacquer Finish, Add	168.12	
			For Baked Enamel Standard Colors, Add	252.18	
			For Anodized Finish, Add	336.24	
			For Kynar™ Standard Colors Finish, Add	462.33	
08 91	19 00-0043	EA	24" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,167.28	132.42
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	90.24	
			For Clear Lacquer Finish, Add	180.49	
			For Baked Enamel Standard Colors, Add	270.73	
			For Anodized Finish, Add	360.98	
			For Kynar™ Standard Colors Finish, Add	496.34	
08 91	19 00-0044	EA	24" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,239.91	138.44
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	96.30	
			For Clear Lacquer Finish, Add	192.61	
			For Baked Enamel Standard Colors, Add	288.91	
			For Anodized Finish, Add	385.21	
			For Kynar™ Standard Colors Finish, Add	529.67	
08 91	19 00-0045	EA	24" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,298.98	147.47
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	100.41	
			For Clear Lacquer Finish, Add	200.81	
			For Baked Enamel Standard Colors, Add	301.22	
			For Anodized Finish, Add	401.62	
			For Kynar™ Standard Colors Finish, Add	552.23	
08 91	19 00-0046	EA	24" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,391.52	156.49
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	107.85	
			For Clear Lacquer Finish, Add	215.70	
			For Baked Enamel Standard Colors, Add	323.56	
			For Anodized Finish, Add	431.41	
			For Kynar™ Standard Colors Finish, Add	593.19	
08 91	19 00-0047	EA	30" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	372.37	45.15
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	28.21	
			For Clear Lacquer Finish, Add	56.42	
			For Baked Enamel Standard Colors, Add	84.63	
			For Anodized Finish, Add	112.84	
			For Kynar™ Standard Colors Finish, Add	155.15	
08 91	19 00-0048	EA	30" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	483.25	60.19
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	36.29	
			For Clear Lacquer Finish, Add	72.57	
			For Baked Enamel Standard Colors, Add	108.86	
			For Anodized Finish, Add	145.15	
			For Kynar™ Standard Colors Finish, Add	199.58	
08 91	19 00-0049	EA	30" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	563.16	69.22
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	42.47	
			For Clear Lacquer Finish, Add	84.94	
			For Baked Enamel Standard Colors, Add	127.42	
			For Anodized Finish, Add	169.89	
			For Kynar™ Standard Colors Finish, Add	233.60	
08 91	19 00-0050	EA	30" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	655.04	78.25
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	49.86	
			For Clear Lacquer Finish, Add	99.71	
			For Baked Enamel Standard Colors, Add	149.57	
			For Anodized Finish, Add	199.42	
			For Kynar™ Standard Colors Finish, Add	274.20	
08 91	19 00-0051	EA	30" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	750.40	84.26
			Note: Includes bird screen. Excludes actuator.		
			For Flange Frame, Add	58.19	
			For Clear Lacquer Finish, Add	116.37	
			For Baked Enamel Standard Colors, Add	174.56	
			For Anodized Finish, Add	232.74	
			For Kynar™ Standard Colors Finish, Add	320.02	





<b>Openings</b>	<b>08</b>
Louvers And Vents	08 90
Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0052	EA	30" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	834.08	93.29
			<i>For Flange Frame, Add</i>	64.75	
			<i>For Clear Lacquer Finish, Add</i>	129.50	
			<i>For Baked Enamel Standard Colors, Add</i>	194.25	
			<i>For Anodized Finish, Add</i>	259.00	
			<i>For Kynar™ Standard Colors Finish, Add</i>	356.12	
08 91	19 00-0053	EA	30" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	895.96	99.31
			<i>For Flange Frame, Add</i>	69.73	
			<i>For Clear Lacquer Finish, Add</i>	139.47	
			<i>For Baked Enamel Standard Colors, Add</i>	209.20	
			<i>For Anodized Finish, Add</i>	278.94	
			<i>For Kynar™ Standard Colors Finish, Add</i>	383.54	
08 91	19 00-0054	EA	30" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	983.45	108.34
			<i>For Flange Frame, Add</i>	76.68	
			<i>For Clear Lacquer Finish, Add</i>	153.35	
			<i>For Baked Enamel Standard Colors, Add</i>	230.03	
			<i>For Anodized Finish, Add</i>	306.70	
			<i>For Kynar™ Standard Colors Finish, Add</i>	421.72	
08 91	19 00-0055	EA	30" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,052.28	114.36
			<i>For Flange Frame, Add</i>	82.36	
			<i>For Clear Lacquer Finish, Add</i>	164.71	
			<i>For Baked Enamel Standard Colors, Add</i>	247.07	
			<i>For Anodized Finish, Add</i>	329.42	
			<i>For Kynar™ Standard Colors Finish, Add</i>	452.96	
08 91	19 00-0056	EA	30" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,159.66	126.40
			<i>For Flange Frame, Add</i>	90.69	
			<i>For Clear Lacquer Finish, Add</i>	181.37	
			<i>For Baked Enamel Standard Colors, Add</i>	272.06	
			<i>For Anodized Finish, Add</i>	362.74	
			<i>For Kynar™ Standard Colors Finish, Add</i>	498.77	
08 91	19 00-0057	EA	30" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,229.46	135.43
			<i>For Flange Frame, Add</i>	95.86	
			<i>For Clear Lacquer Finish, Add</i>	191.72	
			<i>For Baked Enamel Standard Colors, Add</i>	287.58	
			<i>For Anodized Finish, Add</i>	383.44	
			<i>For Kynar™ Standard Colors Finish, Add</i>	527.24	
08 91	19 00-0058	EA	30" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,307.77	141.44
			<i>For Flange Frame, Add</i>	102.49	
			<i>For Clear Lacquer Finish, Add</i>	204.97	
			<i>For Baked Enamel Standard Colors, Add</i>	307.46	
			<i>For Anodized Finish, Add</i>	409.95	
			<i>For Kynar™ Standard Colors Finish, Add</i>	563.68	
08 91	19 00-0059	EA	30" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,385.44	147.47
			<i>For Flange Frame, Add</i>	109.05	
			<i>For Clear Lacquer Finish, Add</i>	218.10	
			<i>For Baked Enamel Standard Colors, Add</i>	327.15	
			<i>For Anodized Finish, Add</i>	436.20	
			<i>For Kynar™ Standard Colors Finish, Add</i>	599.78	
08 91	19 00-0060	EA	30" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,453.99	156.49
			<i>For Flange Frame, Add</i>	114.10	
			<i>For Clear Lacquer Finish, Add</i>	228.20	
			<i>For Baked Enamel Standard Colors, Add</i>	342.30	
			<i>For Anodized Finish, Add</i>	456.40	
			<i>For Kynar™ Standard Colors Finish, Add</i>	627.54	
08 91	19 00-0061	EA	30" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	1,557.87	165.52
			<i>For Flange Frame, Add</i>	122.68	
			<i>For Clear Lacquer Finish, Add</i>	245.36	
			<i>For Baked Enamel Standard Colors, Add</i>	368.05	
			<i>For Anodized Finish, Add</i>	490.73	
			<i>For Kynar™ Standard Colors Finish, Add</i>	674.75	
08 91	19 00-0062	EA	36" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	414.08	51.16
			<i>For Flange Frame, Add</i>	31.18	
			<i>For Clear Lacquer Finish, Add</i>	62.35	
			<i>For Baked Enamel Standard Colors, Add</i>	93.53	
			<i>For Anodized Finish, Add</i>	124.70	
			<i>For Kynar™ Standard Colors Finish, Add</i>	171.46	
08 91	19 00-0063	EA	36" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. Excludes actuator.	542.62	66.21
			<i>For Flange Frame, Add</i>	41.02	
			<i>For Clear Lacquer Finish, Add</i>	82.04	
			<i>For Baked Enamel Standard Colors, Add</i>	123.06	
			<i>For Anodized Finish, Add</i>	164.08	
			<i>For Kynar™ Standard Colors Finish, Add</i>	225.61	

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0064 EA 36" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	626.31	75.24
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	47.58	
For Clear Lacquer Finish, Add	95.17	
For Baked Enamel Standard Colors, Add	142.75	
For Anodized Finish, Add	190.33	
For Kynar™ Standard Colors Finish, Add	261.71	
08 91 19 00-0065 EA 36" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	724.52	84.26
Note: Includes bird screen. Excludes actuator.		
For Flange Frame, Add	55.60	
For Clear Lacquer Finish, Add	111.20	
For Baked Enamel Standard Colors, Add	166.79	
For Anodized Finish, Add	222.39	
For Kynar™ Standard Colors Finish, Add	305.79	
08 91 19 00-0066 EA 36" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	832.36	91.49
Note: Includes bird screen.		
For Flange Frame, Add	64.94	
For Clear Lacquer Finish, Add	129.88	
For Baked Enamel Standard Colors, Add	194.81	
For Anodized Finish, Add	259.75	
For Kynar™ Standard Colors Finish, Add	357.16	
08 91 19 00-0067 EA 36" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	918.05	99.31
Note: Includes bird screen.		
For Flange Frame, Add	71.94	
For Clear Lacquer Finish, Add	143.89	
For Baked Enamel Standard Colors, Add	215.83	
For Anodized Finish, Add	287.77	
For Kynar™ Standard Colors Finish, Add	395.69	
08 91 19 00-0068 EA 36" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	991.32	105.33
Note: Includes bird screen.		
For Flange Frame, Add	78.07	
For Clear Lacquer Finish, Add	156.13	
For Baked Enamel Standard Colors, Add	234.20	
For Anodized Finish, Add	312.26	
For Kynar™ Standard Colors Finish, Add	429.36	
08 91 19 00-0069 EA 36" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,090.14	114.36
Note: Includes bird screen.		
For Flange Frame, Add	86.14	
For Clear Lacquer Finish, Add	172.28	
For Baked Enamel Standard Colors, Add	258.43	
For Anodized Finish, Add	344.57	
For Kynar™ Standard Colors Finish, Add	473.78	
08 91 19 00-0070 EA 36" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,166.89	123.39
Note: Includes bird screen.		
For Flange Frame, Add	92.01	
For Clear Lacquer Finish, Add	184.02	
For Baked Enamel Standard Colors, Add	276.03	
For Anodized Finish, Add	368.04	
For Kynar™ Standard Colors Finish, Add	506.06	
08 91 19 00-0071 EA 36" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,284.03	132.42
Note: Includes bird screen.		
For Flange Frame, Add	101.92	
For Clear Lacquer Finish, Add	203.84	
For Baked Enamel Standard Colors, Add	305.76	
For Anodized Finish, Add	407.68	
For Kynar™ Standard Colors Finish, Add	560.55	
08 91 19 00-0072 EA 36" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,363.94	141.44
Note: Includes bird screen.		
For Flange Frame, Add	108.10	
For Clear Lacquer Finish, Add	216.21	
For Baked Enamel Standard Colors, Add	324.31	
For Anodized Finish, Add	432.42	
For Kynar™ Standard Colors Finish, Add	594.57	
08 91 19 00-0073 EA 36" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,447.28	147.47
Note: Includes bird screen.		
For Flange Frame, Add	115.24	
For Clear Lacquer Finish, Add	230.47	
For Baked Enamel Standard Colors, Add	345.71	
For Anodized Finish, Add	460.94	
For Kynar™ Standard Colors Finish, Add	633.79	
08 91 19 00-0074 EA 36" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,533.79	153.49
Note: Includes bird screen.		
For Flange Frame, Add	122.68	
For Clear Lacquer Finish, Add	245.36	
For Baked Enamel Standard Colors, Add	368.05	
For Anodized Finish, Add	490.73	
For Kynar™ Standard Colors Finish, Add	674.75	
08 91 19 00-0075 EA 36" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,611.17	162.51
Note: Includes bird screen.		
For Flange Frame, Add	128.61	
For Clear Lacquer Finish, Add	257.23	
For Baked Enamel Standard Colors, Add	385.84	
For Anodized Finish, Add	514.46	
For Kynar™ Standard Colors Finish, Add	707.38	



<b>Openings</b>	<b>08</b>
Louvers And Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0076 EA 36" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,727.67	171.54
Note: Includes bird screen.		
For Flange Frame, Add	138.46	
For Clear Lacquer Finish, Add	276.92	
For Baked Enamel Standard Colors, Add	415.38	
For Anodized Finish, Add	553.84	
For Kynar™ Standard Colors Finish, Add	761.52	
08 91 19 00-0077 EA 42" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	479.76	57.18
Note: Includes bird screen.		
For Flange Frame, Add	36.54	
For Clear Lacquer Finish, Add	73.08	
For Baked Enamel Standard Colors, Add	109.62	
For Anodized Finish, Add	146.16	
For Kynar™ Standard Colors Finish, Add	200.97	
08 91 19 00-0078 EA 42" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	590.00	72.23
Note: Includes bird screen.		
For Flange Frame, Add	44.55	
For Clear Lacquer Finish, Add	89.11	
For Baked Enamel Standard Colors, Add	133.66	
For Anodized Finish, Add	178.22	
For Kynar™ Standard Colors Finish, Add	245.05	
08 91 19 00-0079 EA 42" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	681.89	81.26
Note: Includes bird screen.		
For Flange Frame, Add	51.94	
For Clear Lacquer Finish, Add	103.88	
For Baked Enamel Standard Colors, Add	155.81	
For Anodized Finish, Add	207.75	
For Kynar™ Standard Colors Finish, Add	265.66	
08 91 19 00-0080 EA 42" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	796.21	93.29
Note: Includes bird screen.		
For Flange Frame, Add	60.96	
For Clear Lacquer Finish, Add	121.92	
For Baked Enamel Standard Colors, Add	182.89	
For Anodized Finish, Add	243.85	
For Kynar™ Standard Colors Finish, Add	335.29	
08 91 19 00-0081 EA 42" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	911.74	99.31
Note: Includes bird screen.		
For Flange Frame, Add	71.31	
For Clear Lacquer Finish, Add	142.62	
For Baked Enamel Standard Colors, Add	213.94	
For Anodized Finish, Add	285.25	
For Kynar™ Standard Colors Finish, Add	392.22	
08 91 19 00-0082 EA 42" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,005.20	105.33
Note: Includes bird screen.		
For Flange Frame, Add	79.45	
For Clear Lacquer Finish, Add	158.91	
For Baked Enamel Standard Colors, Add	238.36	
For Anodized Finish, Add	317.81	
For Kynar™ Standard Colors Finish, Add	436.99	
08 91 19 00-0083 EA 42" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,086.65	111.36
Note: Includes bird screen.		
For Flange Frame, Add	86.40	
For Clear Lacquer Finish, Add	172.79	
For Baked Enamel Standard Colors, Add	259.19	
For Anodized Finish, Add	345.58	
For Kynar™ Standard Colors Finish, Add	475.17	
08 91 19 00-0084 EA 42" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,185.50	120.38
Note: Includes bird screen.		
For Flange Frame, Add	94.47	
For Clear Lacquer Finish, Add	188.95	
For Baked Enamel Standard Colors, Add	283.42	
For Anodized Finish, Add	377.89	
For Kynar™ Standard Colors Finish, Add	519.60	
08 91 19 00-0085 EA 42" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,271.07	129.41
Note: Includes bird screen.		
For Flange Frame, Add	101.23	
For Clear Lacquer Finish, Add	202.45	
For Baked Enamel Standard Colors, Add	303.68	
For Anodized Finish, Add	404.90	
For Kynar™ Standard Colors Finish, Add	556.74	
08 91 19 00-0086 EA 42" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,400.20	138.44
Note: Includes bird screen.		
For Flange Frame, Add	112.33	
For Clear Lacquer Finish, Add	224.66	
For Baked Enamel Standard Colors, Add	337.00	
For Anodized Finish, Add	449.33	
For Kynar™ Standard Colors Finish, Add	617.83	
08 91 19 00-0087 EA 42" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,485.78	147.47
Note: Includes bird screen.		
For Flange Frame, Add	119.09	
For Clear Lacquer Finish, Add	238.17	
For Baked Enamel Standard Colors, Add	357.26	
For Anodized Finish, Add	476.34	
For Kynar™ Standard Colors Finish, Add	654.97	

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0088 EA 42" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	1,579.23	153.49
Note: Includes bird screen.		
For Flange Frame, Add	127.23	
For Clear Lacquer Finish, Add	254.45	
For Baked Enamel Standard Colors, Add	381.68	
For Anodized Finish, Add	508.90	
For Kynar™ Standard Colors Finish, Add	699.74	
08 91 19 00-0089 EA 42" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	1,673.31	159.51
Note: Includes bird screen.		
For Flange Frame, Add	135.43	
For Clear Lacquer Finish, Add	270.86	
For Baked Enamel Standard Colors, Add	406.29	
For Anodized Finish, Add	541.72	
For Kynar™ Standard Colors Finish, Add	744.87	
08 91 19 00-0090 EA 42" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	1,763.31	168.54
Note: Includes bird screen.		
For Flange Frame, Add	142.62	
For Clear Lacquer Finish, Add	285.25	
For Baked Enamel Standard Colors, Add	427.87	
For Anodized Finish, Add	570.50	
For Kynar™ Standard Colors Finish, Add	784.43	
08 91 19 00-0091 EA 42" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	1,888.02	177.56
Note: Includes bird screen.		
For Flange Frame, Add	153.29	
For Clear Lacquer Finish, Add	306.58	
For Baked Enamel Standard Colors, Add	459.87	
For Anodized Finish, Add	613.16	
For Kynar™ Standard Colors Finish, Add	843.09	
08 91 19 00-0092 EA 48" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	525.24	63.20
Note: Includes bird screen.		
For Flange Frame, Add	39.88	
For Clear Lacquer Finish, Add	79.77	
For Baked Enamel Standard Colors, Add	119.65	
For Anodized Finish, Add	159.54	
For Kynar™ Standard Colors Finish, Add	219.36	
08 91 19 00-0093 EA 48" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	644.31	78.25
Note: Includes bird screen.		
For Flange Frame, Add	48.78	
For Clear Lacquer Finish, Add	97.56	
For Baked Enamel Standard Colors, Add	146.35	
For Anodized Finish, Add	195.13	
For Kynar™ Standard Colors Finish, Add	268.30	
08 91 19 00-0094 EA 48" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	753.59	90.28
Note: Includes bird screen.		
For Flange Frame, Add	57.30	
For Clear Lacquer Finish, Add	114.60	
For Baked Enamel Standard Colors, Add	171.91	
For Anodized Finish, Add	229.21	
For Kynar™ Standard Colors Finish, Add	315.16	
08 91 19 00-0095 EA 48" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	863.78	99.31
Note: Includes bird screen.		
For Flange Frame, Add	66.52	
For Clear Lacquer Finish, Add	133.03	
For Baked Enamel Standard Colors, Add	199.55	
For Anodized Finish, Add	266.06	
For Kynar™ Standard Colors Finish, Add	365.84	
08 91 19 00-0096 EA 48" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	995.10	105.33
Note: Includes bird screen.		
For Flange Frame, Add	78.44	
For Clear Lacquer Finish, Add	156.89	
For Baked Enamel Standard Colors, Add	235.33	
For Anodized Finish, Add	313.77	
For Kynar™ Standard Colors Finish, Add	431.44	
08 91 19 00-0097 EA 48" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,102.43	111.36
Note: Includes bird screen.		
For Flange Frame, Add	87.97	
For Clear Lacquer Finish, Add	175.95	
For Baked Enamel Standard Colors, Add	263.92	
For Anodized Finish, Add	351.89	
For Kynar™ Standard Colors Finish, Add	483.85	
08 91 19 00-0098 EA 48" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,194.33	120.38
Note: Includes bird screen.		
For Flange Frame, Add	95.36	
For Clear Lacquer Finish, Add	190.71	
For Baked Enamel Standard Colors, Add	286.07	
For Anodized Finish, Add	381.42	
For Kynar™ Standard Colors Finish, Add	524.46	
08 91 19 00-0099 EA 48" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,334.81	129.41
Note: Includes bird screen.		
For Flange Frame, Add	107.60	
For Clear Lacquer Finish, Add	215.20	
For Baked Enamel Standard Colors, Add	322.80	
For Anodized Finish, Add	430.40	
For Kynar™ Standard Colors Finish, Add	591.79	



	<b>Openings</b>	<b>08</b>
	Louvers And Vents	08 90
	Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0100	EA	48" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,400.20  112.33 224.66 337.00 449.33 617.83	138.44
08 91	19 00-0101	EA	48" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,537.53  124.26 248.52 372.78 497.04 683.43	147.47
08 91	19 00-0102	EA	48" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,635.11  132.21 264.42 396.63 528.84 727.16	156.49
08 91	19 00-0103	EA	48" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,738.65  141.36 282.72 424.09 565.45 777.49	162.51
08 91	19 00-0104	EA	48" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,842.20  150.51 301.03 451.54 602.05 827.82	168.54
08 91	19 00-0105	EA	48" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,929.33  158.02 316.04 474.07 632.09 869.12	174.56
08 91	19 00-0106	EA	48" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	2,071.71  170.46 340.91 511.37 681.82 937.50	183.59
08 91	19 00-0107	EA	54" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	583.69  43.92 87.85 131.77 175.69 241.58	72.23
08 91	19 00-0108	EA	54" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	715.40  54.08 108.17 162.25 216.34 297.46	87.28
08 91	19 00-0109	EA	54" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	837.62  63.30 126.59 189.89 253.19 348.13	102.33
08 91	19 00-0110	EA	54" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	952.53  73.58 147.17 220.75 294.34 404.71	108.34
08 91	19 00-0111	EA	54" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,108.45  87.97 175.95 263.92 351.89 483.85	114.36

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0112	EA	54" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,218.31	120.38
			<i>For Flange Frame, Add</i>	97.75	
			<i>For Clear Lacquer Finish, Add</i>	195.51	
			<i>For Baked Enamel Standard Colors, Add</i>	293.26	
			<i>For Anodized Finish, Add</i>	391.02	
			<i>For Kynar™ Standard Colors Finish, Add</i>	537.65	
08 91	19 00-0113	EA	54" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,324.71	129.41
			<i>For Flange Frame, Add</i>	106.59	
			<i>For Clear Lacquer Finish, Add</i>	213.18	
			<i>For Baked Enamel Standard Colors, Add</i>	319.77	
			<i>For Anodized Finish, Add</i>	426.36	
			<i>For Kynar™ Standard Colors Finish, Add</i>	586.24	
08 91	19 00-0114	EA	54" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,477.19	138.44
			<i>For Flange Frame, Add</i>	120.03	
			<i>For Clear Lacquer Finish, Add</i>	240.06	
			<i>For Baked Enamel Standard Colors, Add</i>	360.09	
			<i>For Anodized Finish, Add</i>	480.12	
			<i>For Kynar™ Standard Colors Finish, Add</i>	660.17	
08 91	19 00-0115	EA	54" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,586.75	147.47
			<i>For Flange Frame, Add</i>	129.18	
			<i>For Clear Lacquer Finish, Add</i>	258.36	
			<i>For Baked Enamel Standard Colors, Add</i>	387.55	
			<i>For Anodized Finish, Add</i>	516.73	
			<i>For Kynar™ Standard Colors Finish, Add</i>	710.50	
08 91	19 00-0116	EA	54" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,746.18	156.49
			<i>For Flange Frame, Add</i>	143.32	
			<i>For Clear Lacquer Finish, Add</i>	286.64	
			<i>For Baked Enamel Standard Colors, Add</i>	429.95	
			<i>For Anodized Finish, Add</i>	573.27	
			<i>For Kynar™ Standard Colors Finish, Add</i>	788.25	
08 91	19 00-0117	EA	54" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,849.09	162.51
			<i>For Flange Frame, Add</i>	152.41	
			<i>For Clear Lacquer Finish, Add</i>	304.81	
			<i>For Baked Enamel Standard Colors, Add</i>	457.22	
			<i>For Anodized Finish, Add</i>	609.62	
			<i>For Kynar™ Standard Colors Finish, Add</i>	838.23	
08 91	19 00-0118	EA	54" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,965.89	168.54
			<i>For Flange Frame, Add</i>	162.88	
			<i>For Clear Lacquer Finish, Add</i>	325.76	
			<i>For Baked Enamel Standard Colors, Add</i>	488.65	
			<i>For Anodized Finish, Add</i>	651.53	
			<i>For Kynar™ Standard Colors Finish, Add</i>	895.85	
08 91	19 00-0119	EA	54" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,078.27	174.56
			<i>For Flange Frame, Add</i>	172.92	
			<i>For Clear Lacquer Finish, Add</i>	345.83	
			<i>For Baked Enamel Standard Colors, Add</i>	518.75	
			<i>For Anodized Finish, Add</i>	691.66	
			<i>For Kynar™ Standard Colors Finish, Add</i>	951.04	
08 91	19 00-0120	EA	54" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,172.35	180.57
			<i>For Flange Frame, Add</i>	181.12	
			<i>For Clear Lacquer Finish, Add</i>	362.24	
			<i>For Baked Enamel Standard Colors, Add</i>	543.36	
			<i>For Anodized Finish, Add</i>	724.48	
			<i>For Kynar™ Standard Colors Finish, Add</i>	996.16	
08 91	19 00-0121	EA	54" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,336.81	189.60
			<i>For Flange Frame, Add</i>	195.76	
			<i>For Clear Lacquer Finish, Add</i>	391.52	
			<i>For Baked Enamel Standard Colors, Add</i>	587.28	
			<i>For Anodized Finish, Add</i>	783.04	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,076.69	
08 91	19 00-0122	EA	60" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	627.91	78.25
			<i>For Flange Frame, Add</i>	47.14	
			<i>For Clear Lacquer Finish, Add</i>	94.28	
			<i>For Baked Enamel Standard Colors, Add</i>	141.43	
			<i>For Anodized Finish, Add</i>	188.57	
			<i>For Kynar™ Standard Colors Finish, Add</i>	259.28	
08 91	19 00-0123	EA	60" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	774.47	96.31
			<i>For Flange Frame, Add</i>	58.19	
			<i>For Clear Lacquer Finish, Add</i>	116.37	
			<i>For Baked Enamel Standard Colors, Add</i>	174.56	
			<i>For Anodized Finish, Add</i>	232.74	
			<i>For Kynar™ Standard Colors Finish, Add</i>	320.02	



<b>Openings</b>	<b>08</b>
Louvers And Vents	08 90
Louvers	08 91

08

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0124 EA 60" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	896.99	108.34
Note: Includes bird screen.		
For Flange Frame, Add	68.03	
For Clear Lacquer Finish, Add	136.06	
For Baked Enamel Standard Colors, Add	204.09	
For Anodized Finish, Add	272.12	
For Kynar™ Standard Colors Finish, Add	374.17	
08 91 19 00-0125 EA 60" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,028.93	114.36
Note: Includes bird screen.		
For Flange Frame, Add	80.02	
For Clear Lacquer Finish, Add	160.04	
For Baked Enamel Standard Colors, Add	240.06	
For Anodized Finish, Add	320.08	
For Kynar™ Standard Colors Finish, Add	440.12	
08 91 19 00-0126 EA 60" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,194.03	123.39
Note: Includes bird screen.		
For Flange Frame, Add	94.73	
For Clear Lacquer Finish, Add	189.45	
For Baked Enamel Standard Colors, Add	284.18	
For Anodized Finish, Add	378.90	
For Kynar™ Standard Colors Finish, Add	520.99	
08 91 19 00-0127 EA 60" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum.....	1,316.51	129.41
Note: Includes bird screen.		
For Flange Frame, Add	105.77	
For Clear Lacquer Finish, Add	211.54	
For Baked Enamel Standard Colors, Add	317.31	
For Anodized Finish, Add	423.08	
For Kynar™ Standard Colors Finish, Add	581.73	
08 91 19 00-0128 EA 60" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum.....	1,427.34	138.44
Note: Includes bird screen.		
For Flange Frame, Add	115.05	
For Clear Lacquer Finish, Add	230.09	
For Baked Enamel Standard Colors, Add	345.14	
For Anodized Finish, Add	460.18	
For Kynar™ Standard Colors Finish, Add	632.75	
08 91 19 00-0129 EA 60" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum.....	1,589.91	147.47
Note: Includes bird screen.		
For Flange Frame, Add	129.50	
For Clear Lacquer Finish, Add	259.00	
For Baked Enamel Standard Colors, Add	388.49	
For Anodized Finish, Add	517.99	
For Kynar™ Standard Colors Finish, Add	712.24	
08 91 19 00-0130 EA 60" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	1,707.06	156.49
Note: Includes bird screen.		
For Flange Frame, Add	139.41	
For Clear Lacquer Finish, Add	278.81	
For Baked Enamel Standard Colors, Add	418.22	
For Anodized Finish, Add	557.62	
For Kynar™ Standard Colors Finish, Add	766.73	
08 91 19 00-0131 EA 60" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	1,879.09	165.52
Note: Includes bird screen.		
For Flange Frame, Add	154.80	
For Clear Lacquer Finish, Add	309.61	
For Baked Enamel Standard Colors, Add	464.41	
For Anodized Finish, Add	619.22	
For Kynar™ Standard Colors Finish, Add	851.42	
08 91 19 00-0132 EA 60" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	1,988.31	171.54
Note: Includes bird screen.		
For Flange Frame, Add	164.52	
For Clear Lacquer Finish, Add	329.05	
For Baked Enamel Standard Colors, Add	493.57	
For Anodized Finish, Add	658.09	
For Kynar™ Standard Colors Finish, Add	904.88	
08 91 19 00-0133 EA 60" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,112.06	177.56
Note: Includes bird screen.		
For Flange Frame, Add	175.69	
For Clear Lacquer Finish, Add	351.39	
For Baked Enamel Standard Colors, Add	527.08	
For Anodized Finish, Add	702.77	
For Kynar™ Standard Colors Finish, Add	966.31	
08 91 19 00-0134 EA 60" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,233.26	183.59
Note: Includes bird screen.		
For Flange Frame, Add	186.61	
For Clear Lacquer Finish, Add	373.22	
For Baked Enamel Standard Colors, Add	559.83	
For Anodized Finish, Add	746.44	
For Kynar™ Standard Colors Finish, Add	1,026.36	
08 91 19 00-0135 EA 60" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,336.81	189.60
Note: Includes bird screen.		
For Flange Frame, Add	195.76	
For Clear Lacquer Finish, Add	391.52	
For Baked Enamel Standard Colors, Add	587.28	
For Anodized Finish, Add	783.04	
For Kynar™ Standard Colors Finish, Add	1,076.69	

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0136	EA	60" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,505.99	195.62
			<i>For Flange Frame, Add</i>	211.48	
			<i>For Clear Lacquer Finish, Add</i>	422.95	
			<i>For Baked Enamel Standard Colors, Add</i>	634.43	
			<i>For Anodized Finish, Add</i>	845.90	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,163.11	
08 91	19 00-0137	EA	66" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	718.84	84.26
			<i>For Flange Frame, Add</i>	55.03	
			<i>For Clear Lacquer Finish, Add</i>	110.06	
			<i>For Baked Enamel Standard Colors, Add</i>	165.09	
			<i>For Anodized Finish, Add</i>	220.12	
			<i>For Kynar™ Standard Colors Finish, Add</i>	302.67	
08 91	19 00-0138	EA	66" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	887.48	102.33
			<i>For Flange Frame, Add</i>	68.28	
			<i>For Clear Lacquer Finish, Add</i>	136.57	
			<i>For Baked Enamel Standard Colors, Add</i>	204.85	
			<i>For Anodized Finish, Add</i>	273.13	
			<i>For Kynar™ Standard Colors Finish, Add</i>	375.56	
08 91	19 00-0139	EA	66" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,035.30	120.38
			<i>For Flange Frame, Add</i>	79.45	
			<i>For Clear Lacquer Finish, Add</i>	158.91	
			<i>For Baked Enamel Standard Colors, Add</i>	238.36	
			<i>For Anodized Finish, Add</i>	317.81	
			<i>For Kynar™ Standard Colors Finish, Add</i>	436.99	
08 91	19 00-0140	EA	66" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,178.59	126.40
			<i>For Flange Frame, Add</i>	92.58	
			<i>For Clear Lacquer Finish, Add</i>	185.16	
			<i>For Baked Enamel Standard Colors, Add</i>	277.74	
			<i>For Anodized Finish, Add</i>	370.32	
			<i>For Kynar™ Standard Colors Finish, Add</i>	509.18	
08 91	19 00-0141	EA	66" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,367.34	132.42
			<i>For Flange Frame, Add</i>	110.25	
			<i>For Clear Lacquer Finish, Add</i>	220.50	
			<i>For Baked Enamel Standard Colors, Add</i>	330.75	
			<i>For Anodized Finish, Add</i>	441.00	
			<i>For Kynar™ Standard Colors Finish, Add</i>	606.38	
08 91	19 00-0142	EA	66" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,500.54	138.44
			<i>For Flange Frame, Add</i>	122.37	
			<i>For Clear Lacquer Finish, Add</i>	244.73	
			<i>For Baked Enamel Standard Colors, Add</i>	367.10	
			<i>For Anodized Finish, Add</i>	489.46	
			<i>For Kynar™ Standard Colors Finish, Add</i>	673.01	
08 91	19 00-0143	EA	66" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,631.56	147.47
			<i>For Flange Frame, Add</i>	133.66	
			<i>For Clear Lacquer Finish, Add</i>	267.33	
			<i>For Baked Enamel Standard Colors, Add</i>	400.99	
			<i>For Anodized Finish, Add</i>	534.65	
			<i>For Kynar™ Standard Colors Finish, Add</i>	735.15	
08 91	19 00-0144	EA	66" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,784.05	156.49
			<i>For Flange Frame, Add</i>	147.11	
			<i>For Clear Lacquer Finish, Add</i>	294.21	
			<i>For Baked Enamel Standard Colors, Add</i>	441.32	
			<i>For Anodized Finish, Add</i>	588.42	
			<i>For Kynar™ Standard Colors Finish, Add</i>	809.08	
08 91	19 00-0145	EA	66" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,914.43	165.52
			<i>For Flange Frame, Add</i>	158.34	
			<i>For Clear Lacquer Finish, Add</i>	316.68	
			<i>For Baked Enamel Standard Colors, Add</i>	475.01	
			<i>For Anodized Finish, Add</i>	633.35	
			<i>For Kynar™ Standard Colors Finish, Add</i>	870.86	
08 91	19 00-0146	EA	66" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,113.32	177.56
			<i>For Flange Frame, Add</i>	175.82	
			<i>For Clear Lacquer Finish, Add</i>	351.64	
			<i>For Baked Enamel Standard Colors, Add</i>	527.46	
			<i>For Anodized Finish, Add</i>	703.28	
			<i>For Kynar™ Standard Colors Finish, Add</i>	967.00	
08 91	19 00-0147	EA	66" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,239.28	186.59
			<i>For Flange Frame, Add</i>	186.61	
			<i>For Clear Lacquer Finish, Add</i>	373.22	
			<i>For Baked Enamel Standard Colors, Add</i>	559.83	
			<i>For Anodized Finish, Add</i>	746.44	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,026.36	





<b>Openings</b>	<b>08</b>
Louvers And Vents	08 90
Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0148	EA	66" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,369.97	192.61
			<i>For Flange Frame, Add</i>	198.48	
			<i>For Clear Lacquer Finish, Add</i>	396.95	
			<i>For Baked Enamel Standard Colors, Add</i>	595.43	
			<i>For Anodized Finish, Add</i>	793.90	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,091.61	
08 91	19 00-0149	EA	66" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,503.17	198.62
			<i>For Flange Frame, Add</i>	210.59	
			<i>For Clear Lacquer Finish, Add</i>	421.18	
			<i>For Baked Enamel Standard Colors, Add</i>	631.77	
			<i>For Anodized Finish, Add</i>	842.36	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,158.25	
08 91	19 00-0150	EA	66" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,619.33	204.65
			<i>For Flange Frame, Add</i>	221.00	
			<i>For Clear Lacquer Finish, Add</i>	442.01	
			<i>For Baked Enamel Standard Colors, Add</i>	663.01	
			<i>For Anodized Finish, Add</i>	884.02	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,215.52	
08 91	19 00-0151	EA	66" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,807.45	210.67
			<i>For Flange Frame, Add</i>	238.61	
			<i>For Clear Lacquer Finish, Add</i>	477.22	
			<i>For Baked Enamel Standard Colors, Add</i>	715.83	
			<i>For Anodized Finish, Add</i>	954.44	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,312.36	
08 91	19 00-0152	EA	72" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	759.90	90.28
			<i>For Flange Frame, Add</i>	57.93	
			<i>For Clear Lacquer Finish, Add</i>	115.87	
			<i>For Baked Enamel Standard Colors, Add</i>	173.80	
			<i>For Anodized Finish, Add</i>	231.73	
			<i>For Kynar™ Standard Colors Finish, Add</i>	318.63	
08 91	19 00-0153	EA	72" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	936.12	108.34
			<i>For Flange Frame, Add</i>	71.94	
			<i>For Clear Lacquer Finish, Add</i>	143.89	
			<i>For Baked Enamel Standard Colors, Add</i>	215.83	
			<i>For Anodized Finish, Add</i>	287.77	
			<i>For Kynar™ Standard Colors Finish, Add</i>	395.69	
08 91	19 00-0154	EA	72" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,090.87	126.40
			<i>For Flange Frame, Add</i>	83.81	
			<i>For Clear Lacquer Finish, Add</i>	167.61	
			<i>For Baked Enamel Standard Colors, Add</i>	251.42	
			<i>For Anodized Finish, Add</i>	335.23	
			<i>For Kynar™ Standard Colors Finish, Add</i>	460.94	
08 91	19 00-0155	EA	72" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,248.39	135.43
			<i>For Flange Frame, Add</i>	97.75	
			<i>For Clear Lacquer Finish, Add</i>	195.51	
			<i>For Baked Enamel Standard Colors, Add</i>	293.26	
			<i>For Anodized Finish, Add</i>	391.02	
			<i>For Kynar™ Standard Colors Finish, Add</i>	537.65	
08 91	19 00-0156	EA	72" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,450.40	141.44
			<i>For Flange Frame, Add</i>	116.75	
			<i>For Clear Lacquer Finish, Add</i>	233.50	
			<i>For Baked Enamel Standard Colors, Add</i>	350.25	
			<i>For Anodized Finish, Add</i>	467.00	
			<i>For Kynar™ Standard Colors Finish, Add</i>	642.13	
08 91	19 00-0157	EA	72" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,590.54	147.47
			<i>For Flange Frame, Add</i>	129.56	
			<i>For Clear Lacquer Finish, Add</i>	259.12	
			<i>For Baked Enamel Standard Colors, Add</i>	388.68	
			<i>For Anodized Finish, Add</i>	518.24	
			<i>For Kynar™ Standard Colors Finish, Add</i>	712.59	
08 91	19 00-0158	EA	72" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,729.77	156.49
			<i>For Flange Frame, Add</i>	141.68	
			<i>For Clear Lacquer Finish, Add</i>	283.35	
			<i>For Baked Enamel Standard Colors, Add</i>	425.03	
			<i>For Anodized Finish, Add</i>	566.71	
			<i>For Kynar™ Standard Colors Finish, Add</i>	779.22	
08 91	19 00-0159	EA	72" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,884.43	162.51
			<i>For Flange Frame, Add</i>	155.94	
			<i>For Clear Lacquer Finish, Add</i>	311.88	
			<i>For Baked Enamel Standard Colors, Add</i>	467.82	
			<i>For Anodized Finish, Add</i>	623.76	
			<i>For Kynar™ Standard Colors Finish, Add</i>	857.67	

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0160	EA	72" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,020.49	171.54
			Note: Includes bird screen.		
			For Flange Frame, Add	167.74	
			For Clear Lacquer Finish, Add	335.48	
			For Baked Enamel Standard Colors, Add	503.22	
			For Anodized Finish, Add	670.96	
			For Kynar™ Standard Colors Finish, Add	922.58	
08 91	19 00-0161	EA	72" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,239.28	186.59
			Note: Includes bird screen.		
			For Flange Frame, Add	186.61	
			For Clear Lacquer Finish, Add	373.22	
			For Baked Enamel Standard Colors, Add	559.83	
			For Anodized Finish, Add	746.44	
			For Kynar™ Standard Colors Finish, Add	1,026.36	
08 91	19 00-0162	EA	72" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,377.25	195.62
			Note: Includes bird screen.		
			For Flange Frame, Add	198.60	
			For Clear Lacquer Finish, Add	397.20	
			For Baked Enamel Standard Colors, Add	595.80	
			For Anodized Finish, Add	794.40	
			For Kynar™ Standard Colors Finish, Add	1,092.31	
08 91	19 00-0163	EA	72" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	2,511.72	201.64
			Note: Includes bird screen.		
			For Flange Frame, Add	210.84	
			For Clear Lacquer Finish, Add	421.69	
			For Baked Enamel Standard Colors, Add	632.53	
			For Anodized Finish, Add	843.38	
			For Kynar™ Standard Colors Finish, Add	1,159.64	
08 91	19 00-0164	EA	72" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	2,648.07	207.66
			Note: Includes bird screen.		
			For Flange Frame, Add	223.28	
			For Clear Lacquer Finish, Add	446.55	
			For Baked Enamel Standard Colors, Add	669.83	
			For Anodized Finish, Add	893.10	
			For Kynar™ Standard Colors Finish, Add	1,228.02	
08 91	19 00-0165	EA	72" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	2,776.24	213.67
			Note: Includes bird screen.		
			For Flange Frame, Add	234.89	
			For Clear Lacquer Finish, Add	469.78	
			For Baked Enamel Standard Colors, Add	704.66	
			For Anodized Finish, Add	939.55	
			For Kynar™ Standard Colors Finish, Add	1,291.88	
08 91	19 00-0166	EA	72" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	2,976.33	219.70
			Note: Includes bird screen.		
			For Flange Frame, Add	253.69	
			For Clear Lacquer Finish, Add	507.39	
			For Baked Enamel Standard Colors, Add	761.08	
			For Anodized Finish, Add	1,014.78	
			For Kynar™ Standard Colors Finish, Add	1,395.32	
08 91	19 00-0167	EA	78" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum.....	808.54	96.31
			Note: Includes bird screen.		
			For Flange Frame, Add	61.59	
			For Clear Lacquer Finish, Add	123.19	
			For Baked Enamel Standard Colors, Add	184.78	
			For Anodized Finish, Add	246.37	
			For Kynar™ Standard Colors Finish, Add	338.76	
08 91	19 00-0168	EA	78" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum.....	989.17	114.36
			Note: Includes bird screen.		
			For Flange Frame, Add	76.05	
			For Clear Lacquer Finish, Add	152.09	
			For Baked Enamel Standard Colors, Add	228.14	
			For Anodized Finish, Add	304.18	
			For Kynar™ Standard Colors Finish, Add	418.25	
08 91	19 00-0169	EA	78" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum.....	1,147.09	132.42
			Note: Includes bird screen.		
			For Flange Frame, Add	88.23	
			For Clear Lacquer Finish, Add	176.45	
			For Baked Enamel Standard Colors, Add	264.68	
			For Anodized Finish, Add	352.90	
			For Kynar™ Standard Colors Finish, Add	485.24	
08 91	19 00-0170	EA	78" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum.....	1,314.72	141.44
			Note: Includes bird screen.		
			For Flange Frame, Add	103.18	
			For Clear Lacquer Finish, Add	206.36	
			For Baked Enamel Standard Colors, Add	309.55	
			For Anodized Finish, Add	412.73	
			For Kynar™ Standard Colors Finish, Add	567.50	
08 91	19 00-0171	EA	78" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum.....	1,528.06	147.47
			Note: Includes bird screen.		
			For Flange Frame, Add	123.31	
			For Clear Lacquer Finish, Add	246.63	
			For Baked Enamel Standard Colors, Add	369.94	
			For Anodized Finish, Add	493.25	
			For Kynar™ Standard Colors Finish, Add	678.22	



<b>Openings</b>	<b>08</b>
Louvers And Vents	08 90
Louvers	08 91

08

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0172	EA	78" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,673.89 136.69 273.38 410.08 546.77 751.81	153.49
08 91	19 00-0173	EA	78" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,822.58 149.76 299.51 449.27 599.02 823.65	162.51
08 91	19 00-0174	EA	78" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,986.08 164.90 329.80 494.70 659.60 906.96	168.54
08 91	19 00-0175	EA	78" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	2,131.62 177.65 355.30 532.95 710.60 977.07	177.56
08 91	19 00-0176	EA	78" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	2,363.66 197.84 395.69 593.53 791.38 1,088.14	192.61
08 91	19 00-0177	EA	78" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	2,507.93 210.47 420.93 631.40 841.86 1,157.56	201.64
08 91	19 00-0178	EA	78" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	2,658.52 223.72 447.44 671.15 894.87 1,230.45	210.67
08 91	19 00-0179	EA	78" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	2,794.87 236.15 472.30 708.45 944.60 1,298.83	216.69
08 91	19 00-0180	EA	78" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	2,931.23 248.58 497.16 745.75 994.33 1,367.20	222.70
08 91	19 00-0181	EA	78" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	3,143.96 268.65 537.30 805.95 1,074.60 1,477.58	228.72
08 91	19 00-0182	EA	84" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	848.98 64.43 128.87 193.30 257.73 354.38	102.33
08 91	19 00-0183	EA	84" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,036.56 79.58 159.16 238.74 318.32 437.68	120.38

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0184	EA	84" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,209.62	138.44
			<i>For Flange Frame, Add</i>	93.27	
			<i>For Clear Lacquer Finish, Add</i>	186.55	
			<i>For Baked Enamel Standard Colors, Add</i>	279.82	
			<i>For Anodized Finish, Add</i>	373.10	
			<i>For Kynar™ Standard Colors Finish, Add</i>	513.01	
08 91	19 00-0185	EA	84" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,382.28	147.47
			<i>For Flange Frame, Add</i>	108.74	
			<i>For Clear Lacquer Finish, Add</i>	217.47	
			<i>For Baked Enamel Standard Colors, Add</i>	326.21	
			<i>For Anodized Finish, Add</i>	434.94	
			<i>For Kynar™ Standard Colors Finish, Add</i>	598.04	
08 91	19 00-0186	EA	84" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,608.89	153.49
			<i>For Flange Frame, Add</i>	130.19	
			<i>For Clear Lacquer Finish, Add</i>	260.38	
			<i>For Baked Enamel Standard Colors, Add</i>	390.58	
			<i>For Anodized Finish, Add</i>	520.77	
			<i>For Kynar™ Standard Colors Finish, Add</i>	716.06	
08 91	19 00-0187	EA	84" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,762.92	159.51
			<i>For Flange Frame, Add</i>	144.39	
			<i>For Clear Lacquer Finish, Add</i>	288.78	
			<i>For Baked Enamel Standard Colors, Add</i>	433.17	
			<i>For Anodized Finish, Add</i>	577.56	
			<i>For Kynar™ Standard Colors Finish, Add</i>	794.15	
08 91	19 00-0188	EA	84" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,914.77	168.54
			<i>For Flange Frame, Add</i>	157.77	
			<i>For Clear Lacquer Finish, Add</i>	315.54	
			<i>For Baked Enamel Standard Colors, Add</i>	473.31	
			<i>For Anodized Finish, Add</i>	631.08	
			<i>For Kynar™ Standard Colors Finish, Add</i>	867.74	
08 91	19 00-0189	EA	84" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,090.89	174.56
			<i>For Flange Frame, Add</i>	174.18	
			<i>For Clear Lacquer Finish, Add</i>	348.36	
			<i>For Baked Enamel Standard Colors, Add</i>	522.53	
			<i>For Anodized Finish, Add</i>	696.71	
			<i>For Kynar™ Standard Colors Finish, Add</i>	957.98	
08 91	19 00-0190	EA	84" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,243.36	183.59
			<i>For Flange Frame, Add</i>	187.62	
			<i>For Clear Lacquer Finish, Add</i>	375.24	
			<i>For Baked Enamel Standard Colors, Add</i>	562.86	
			<i>For Anodized Finish, Add</i>	750.48	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,031.91	
08 91	19 00-0191	EA	84" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,488.66	198.62
			<i>For Flange Frame, Add</i>	209.14	
			<i>For Clear Lacquer Finish, Add</i>	418.28	
			<i>For Baked Enamel Standard Colors, Add</i>	627.42	
			<i>For Anodized Finish, Add</i>	836.56	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,150.27	
08 91	19 00-0192	EA	84" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,637.97	207.66
			<i>For Flange Frame, Add</i>	222.27	
			<i>For Clear Lacquer Finish, Add</i>	444.53	
			<i>For Baked Enamel Standard Colors, Add</i>	666.80	
			<i>For Anodized Finish, Add</i>	889.06	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,222.46	
08 91	19 00-0193	EA	84" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,801.18	216.69
			<i>For Flange Frame, Add</i>	236.78	
			<i>For Clear Lacquer Finish, Add</i>	473.56	
			<i>For Baked Enamel Standard Colors, Add</i>	710.34	
			<i>For Anodized Finish, Add</i>	947.12	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,302.30	
08 91	19 00-0194	EA	84" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,972.89	222.70
			<i>For Flange Frame, Add</i>	252.75	
			<i>For Clear Lacquer Finish, Add</i>	505.50	
			<i>For Baked Enamel Standard Colors, Add</i>	758.24	
			<i>For Anodized Finish, Add</i>	1,010.99	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,390.11	
08 91	19 00-0195	EA	84" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,128.18	228.72
			<i>For Flange Frame, Add</i>	267.07	
			<i>For Clear Lacquer Finish, Add</i>	534.15	
			<i>For Baked Enamel Standard Colors, Add</i>	801.22	
			<i>For Anodized Finish, Add</i>	1,068.29	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,468.90	



	<b>Openings</b>	<b>08</b>
	<b>Louvers And Vents</b>	<b>08 90</b>
	<b>Louvers</b>	<b>08 91</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0196	EA	84" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	3,356.68 288.72 577.44 866.16 1,154.88 1,587.95	234.74
08 91	19 00-0197	EA	90" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	903.00 68.03 136.06 204.09 272.12 374.17	111.36
08 91	19 00-0198	EA	90" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,093.11 83.43 166.86 250.29 333.72 458.86	129.41
08 91	19 00-0199	EA	90" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,272.47 97.75 195.51 293.26 391.02 537.65	147.47
08 91	19 00-0200	EA	90" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,450.21 113.72 227.44 341.16 454.88 625.47	156.49
08 91	19 00-0201	EA	90" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,691.95 136.69 273.38 410.08 546.77 751.81	162.51
08 91	19 00-0202	EA	90" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	1,851.03 151.40 302.79 454.19 605.58 832.68	168.54
08 91	19 00-0203	EA	90" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	2,003.17 165.41 330.81 496.22 661.62 909.73	174.56
08 91	19 00-0204	EA	90" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	2,188.76 182.76 365.52 548.28 731.04 1,005.19	180.57
08 91	19 00-0205	EA	90" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	2,348.80 196.96 393.92 590.88 787.84 1,083.28	189.60
08 91	19 00-0206	EA	90" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	2,607.34 219.81 439.61 659.42 879.22 1,208.93	204.65
08 91	19 00-0207	EA	90" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen. <i>For Flange Frame, Add</i> <i>For Clear Lacquer Finish, Add</i> <i>For Baked Enamel Standard Colors, Add</i> <i>For Anodized Finish, Add</i> <i>For Kynar™ Standard Colors Finish, Add</i>	2,762.99 233.56 467.13 700.69 934.25 1,284.60	213.67

<b>08</b>	<b>Openings</b>
<b>08 90</b>	<b>Louvers And Vents</b>
<b>08 91</b>	<b>Louvers</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0208	EA	90" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,940.07	222.70
			<i>For Flange Frame, Add</i>	249.47	
			<i>For Clear Lacquer Finish, Add</i>	498.93	
			<i>For Baked Enamel Standard Colors, Add</i>	748.40	
			<i>For Anodized Finish, Add</i>	997.86	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,372.06	
08 91	19 00-0209	EA	90" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,121.87	228.72
			<i>For Flange Frame, Add</i>	266.44	
			<i>For Clear Lacquer Finish, Add</i>	532.88	
			<i>For Baked Enamel Standard Colors, Add</i>	799.33	
			<i>For Anodized Finish, Add</i>	1,065.77	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,465.43	
08 91	19 00-0210	EA	90" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,279.40	237.75
			<i>For Flange Frame, Add</i>	280.39	
			<i>For Clear Lacquer Finish, Add</i>	560.78	
			<i>For Baked Enamel Standard Colors, Add</i>	841.17	
			<i>For Anodized Finish, Add</i>	1,121.56	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,542.14	
08 91	19 00-0211	EA	90" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	3,521.14	243.77
			<i>For Flange Frame, Add</i>	303.36	
			<i>For Clear Lacquer Finish, Add</i>	606.72	
			<i>For Baked Enamel Standard Colors, Add</i>	910.08	
			<i>For Anodized Finish, Add</i>	1,213.44	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,668.48	
08 91	19 00-0212	EA	96" Wide x 12" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	950.73	120.38
			<i>For Flange Frame, Add</i>	71.00	
			<i>For Clear Lacquer Finish, Add</i>	141.99	
			<i>For Baked Enamel Standard Colors, Add</i>	212.99	
			<i>For Anodized Finish, Add</i>	283.98	
			<i>For Kynar™ Standard Colors Finish, Add</i>	390.48	
08 91	19 00-0213	EA	96" Wide x 18" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,147.14	138.44
			<i>For Flange Frame, Add</i>	87.03	
			<i>For Clear Lacquer Finish, Add</i>	174.05	
			<i>For Baked Enamel Standard Colors, Add</i>	261.08	
			<i>For Anodized Finish, Add</i>	348.10	
			<i>For Kynar™ Standard Colors Finish, Add</i>	478.64	
08 91	19 00-0214	EA	96" Wide x 24" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,334.72	156.49
			<i>For Flange Frame, Add</i>	102.17	
			<i>For Clear Lacquer Finish, Add</i>	204.34	
			<i>For Baked Enamel Standard Colors, Add</i>	306.52	
			<i>For Anodized Finish, Add</i>	408.69	
			<i>For Kynar™ Standard Colors Finish, Add</i>	561.95	
08 91	19 00-0215	EA	96" Wide x 30" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,521.90	165.52
			<i>For Flange Frame, Add</i>	119.09	
			<i>For Clear Lacquer Finish, Add</i>	238.17	
			<i>For Baked Enamel Standard Colors, Add</i>	357.26	
			<i>For Anodized Finish, Add</i>	476.34	
			<i>For Kynar™ Standard Colors Finish, Add</i>	654.97	
08 91	19 00-0216	EA	96" Wide x 36" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,771.21	171.54
			<i>For Flange Frame, Add</i>	142.81	
			<i>For Clear Lacquer Finish, Add</i>	285.63	
			<i>For Baked Enamel Standard Colors, Add</i>	428.44	
			<i>For Anodized Finish, Add</i>	571.25	
			<i>For Kynar™ Standard Colors Finish, Add</i>	785.47	
08 91	19 00-0217	EA	96" Wide x 42" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	1,956.18	177.56
			<i>For Flange Frame, Add</i>	160.11	
			<i>For Clear Lacquer Finish, Add</i>	320.21	
			<i>For Baked Enamel Standard Colors, Add</i>	480.32	
			<i>For Anodized Finish, Add</i>	640.42	
			<i>For Kynar™ Standard Colors Finish, Add</i>	880.58	
08 91	19 00-0218	EA	96" Wide x 48" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,117.78	183.59
			<i>For Flange Frame, Add</i>	175.06	
			<i>For Clear Lacquer Finish, Add</i>	350.12	
			<i>For Baked Enamel Standard Colors, Add</i>	525.19	
			<i>For Anodized Finish, Add</i>	700.25	
			<i>For Kynar™ Standard Colors Finish, Add</i>	962.84	
08 91	19 00-0219	EA	96" Wide x 54" High Fixed Intake Louver, Galvanized Aluminum..... Note: Includes bird screen.	2,294.53	189.60
			<i>For Flange Frame, Add</i>	191.53	
			<i>For Clear Lacquer Finish, Add</i>	383.07	
			<i>For Baked Enamel Standard Colors, Add</i>	574.60	
			<i>For Anodized Finish, Add</i>	766.13	
			<i>For Kynar™ Standard Colors Finish, Add</i>	1,053.43	



<b>Openings</b>	<b>08</b>
<b>Louvers And Vents</b>	<b>08 90</b>
<b>Louvers</b>	<b>08 91</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91 19 00-0220 EA 96" Wide x 60" High Fixed Intake Louver, Galvanized Aluminum.....	2,458.66	195.62
Note: Includes bird screen.		
For Flange Frame, Add	206.74	
For Clear Lacquer Finish, Add	413.48	
For Baked Enamel Standard Colors, Add	620.23	
For Anodized Finish, Add	826.97	
For Kynar™ Standard Colors Finish, Add	1,137.08	
08 91 19 00-0221 EA 96" Wide x 66" High Fixed Intake Louver, Galvanized Aluminum.....	2,735.51	210.67
Note: Includes bird screen.		
For Flange Frame, Add	231.42	
For Clear Lacquer Finish, Add	462.83	
For Baked Enamel Standard Colors, Add	694.25	
For Anodized Finish, Add	925.67	
For Kynar™ Standard Colors Finish, Add	1,272.79	
08 91 19 00-0222 EA 96" Wide x 72" High Fixed Intake Louver, Galvanized Aluminum.....	2,217.14	219.70
Note: Includes bird screen.		
For Flange Frame, Add	177.78	
For Clear Lacquer Finish, Add	355.55	
For Baked Enamel Standard Colors, Add	533.33	
For Anodized Finish, Add	711.10	
For Kynar™ Standard Colors Finish, Add	977.76	
08 91 19 00-0223 EA 96" Wide x 78" High Fixed Intake Louver, Galvanized Aluminum.....	3,077.06	228.72
Note: Includes bird screen.		
For Flange Frame, Add	261.96	
For Clear Lacquer Finish, Add	523.92	
For Baked Enamel Standard Colors, Add	785.88	
For Anodized Finish, Add	1,047.84	
For Kynar™ Standard Colors Finish, Add	1,440.79	
08 91 19 00-0224 EA 96" Wide x 84" High Fixed Intake Louver, Galvanized Aluminum.....	3,265.17	234.74
Note: Includes bird screen.		
For Flange Frame, Add	279.57	
For Clear Lacquer Finish, Add	559.14	
For Baked Enamel Standard Colors, Add	838.70	
For Anodized Finish, Add	1,118.27	
For Kynar™ Standard Colors Finish, Add	1,537.62	
08 91 19 00-0225 EA 96" Wide x 90" High Fixed Intake Louver, Galvanized Aluminum.....	3,430.27	243.77
Note: Includes bird screen.		
For Flange Frame, Add	294.27	
For Clear Lacquer Finish, Add	588.55	
For Baked Enamel Standard Colors, Add	882.82	
For Anodized Finish, Add	1,177.09	
For Kynar™ Standard Colors Finish, Add	1,618.50	
08 91 19 00-0226 EA 96" Wide x 96" High Fixed Intake Louver, Galvanized Aluminum.....	3,692.55	252.80
Note: Includes bird screen.		
For Flange Frame, Add	318.70	
For Clear Lacquer Finish, Add	637.39	
For Baked Enamel Standard Colors, Add	956.09	
For Anodized Finish, Add	1,274.78	
For Kynar™ Standard Colors Finish, Add	1,752.82	
<b>08 91 19 00-0227 Gable Louver Vents (08 91 19)</b>		
Note: 1" deep, residential/light commercial grade louvers.		
<b>08 91 19 00-0228 Aluminum Gable Louver Vents (08 91 19 00-0227)</b>		
Note: Includes screen.		
<b>08 91 19 00-0229 Rectangular Aluminum Gable Louver Vents (08 91 19 00-0228)</b>		
Note: Includes screen.		
08 91 19 00-0230 EA 12" x 18" Rectangular Fixed Aluminum Gable Louver Vent.....	154.71	9.65
08 91 19 00-0231 EA 12" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....	169.76	11.07
08 91 19 00-0232 EA 18" x 24" Rectangular Fixed Aluminum Gable Louver Vent.....	195.60	12.50
08 91 19 00-0233 EA 18" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....	214.10	13.30
08 91 19 00-0234 EA 24" x 30" Rectangular Fixed Aluminum Gable Louver Vent.....	243.36	14.08
08 91 19 00-0235 EA 24" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....	273.33	16.88
08 91 19 00-0236 EA 30" x 36" Rectangular Fixed Aluminum Gable Louver Vent.....	318.30	21.10
08 91 19 00-0237 EA 30" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....	355.78	24.63
08 91 19 00-0238 EA 36" x 42" Rectangular Fixed Aluminum Gable Louver Vent.....	408.25	29.56
08 91 19 00-0239 EA 42" x 48" Rectangular Fixed Aluminum Gable Louver Vent.....	513.17	39.40
<b>08 91 19 00-0240 Square Aluminum Gable Louver Vents (08 91 19 00-0228)</b>		
Note: Includes screen.		
08 91 19 00-0241 EA 12" x 12" Square Fixed Aluminum Gable Louver Vent .....	141.66	8.88
08 91 19 00-0242 EA 18" x 18" Square Fixed Aluminum Gable Louver Vent .....	175.69	11.26
08 91 19 00-0243 EA 24" x 24" Square Fixed Aluminum Gable Louver Vent .....	219.47	13.29
08 91 19 00-0244 EA 30" x 30" Square Fixed Aluminum Gable Louver Vent .....	280.82	17.59
08 91 19 00-0245 EA 36" x 36" Square Fixed Aluminum Gable Louver Vent .....	363.28	25.33
08 91 19 00-0246 EA 42" x 42" Square Fixed Aluminum Gable Louver Vent .....	460.63	34.45
08 91 19 00-0247 EA 48" x 48" Square Fixed Aluminum Gable Louver Vent .....	573.15	45.03
<b>08 91 19 00-0248 Round Aluminum Gable Louver Vents (08 91 19 00-0228)</b>		
Note: Includes screen.		
08 91 19 00-0249 EA 12" Diameter Round Fixed Aluminum Gable Louver Vent.....	141.66	8.88
08 91 19 00-0250 EA 18" Diameter Round Fixed Aluminum Gable Louver Vent.....	175.69	11.26



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0251	EA	24" Diameter Round Fixed Aluminum Gable Louver Vent.....	219.47	13.29
08 91	19 00-0252	EA	30" Diameter Round Fixed Aluminum Gable Louver Vent.....	280.82	17.59
08 91	19 00-0253	EA	36" Diameter Round Fixed Aluminum Gable Louver Vent.....	363.28	25.33
08 91	19 00-0254	EA	42" Diameter Round Fixed Aluminum Gable Louver Vent.....	460.71	34.48
<b>08 91 19 00-0255 Octagonal Aluminum Gable Louver Vents (08 91 19 00-0228)</b>					
Note: Includes screen.					
08 91	19 00-0256	EA	12" x 12" Octagonal Fixed Aluminum Gable Louver Vent.....	141.66	8.88
08 91	19 00-0257	EA	12" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....	154.71	9.65
08 91	19 00-0258	EA	12" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	169.76	11.07
08 91	19 00-0259	EA	18" x 18" Octagonal Fixed Aluminum Gable Louver Vent.....	175.69	11.26
08 91	19 00-0260	EA	18" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	195.60	12.50
08 91	19 00-0261	EA	18" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	214.10	13.30
08 91	19 00-0262	EA	24" x 24" Octagonal Fixed Aluminum Gable Louver Vent.....	219.47	13.29
08 91	19 00-0263	EA	24" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	243.36	14.08
08 91	19 00-0264	EA	24" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	273.33	16.88
08 91	19 00-0265	EA	30" x 30" Octagonal Fixed Aluminum Gable Louver Vent.....	280.82	17.59
08 91	19 00-0266	EA	30" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	318.30	21.10
08 91	19 00-0267	EA	30" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	355.78	24.63
08 91	19 00-0268	EA	36" x 36" Octagonal Fixed Aluminum Gable Louver Vent.....	363.28	25.33
08 91	19 00-0269	EA	36" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	408.25	29.56
08 91	19 00-0270	EA	36" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	453.22	33.78
08 91	19 00-0271	EA	42" x 42" Octagonal Fixed Aluminum Gable Louver Vent.....	460.71	34.48
08 91	19 00-0272	EA	42" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	513.17	39.40
08 91	19 00-0273	EA	48" x 48" Octagonal Fixed Aluminum Gable Louver Vent.....	573.15	45.03
<b>08 91 19 00-0274 Round Top Aluminum Gable Louver Vents (08 91 19 00-0228)</b>					
Note: Includes screen.					
08 91	19 00-0275	EA	12" x 12" Round Top Fixed Aluminum Gable Louver Vent.....	141.66	8.88
08 91	19 00-0276	EA	12" x 18" Round Top Fixed Aluminum Gable Louver Vent.....	154.71	9.65
08 91	19 00-0277	EA	12" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	169.76	11.07
08 91	19 00-0278	EA	18" x 18" Round Top Fixed Aluminum Gable Louver Vent.....	175.69	11.26
08 91	19 00-0279	EA	18" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	195.60	12.50
08 91	19 00-0280	EA	18" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	214.10	13.30
08 91	19 00-0281	EA	24" x 24" Round Top Fixed Aluminum Gable Louver Vent.....	219.47	13.29
08 91	19 00-0282	EA	24" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	243.36	14.08
08 91	19 00-0283	EA	24" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	273.33	16.88
08 91	19 00-0284	EA	30" x 30" Round Top Fixed Aluminum Gable Louver Vent.....	280.82	17.59
08 91	19 00-0285	EA	30" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	318.30	21.10
08 91	19 00-0286	EA	30" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	355.78	24.63
08 91	19 00-0287	EA	36" x 36" Round Top Fixed Aluminum Gable Louver Vent.....	363.28	25.33
08 91	19 00-0288	EA	36" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	408.25	29.56
08 91	19 00-0289	EA	36" x 48" Round Top Fixed Aluminum Gable Louver Vent.....	453.22	33.78
08 91	19 00-0290	EA	42" x 42" Round Top Fixed Aluminum Gable Louver Vent.....	460.71	34.48
08 91	19 00-0291	EA	42" x 48" Round Top Fixed Aluminum Gable Louver Vent.....	513.17	39.40
08 91	19 00-0292	EA	48" x 48" Round Top Fixed Aluminum Gable Louver Vent.....	573.15	45.03
<b>08 91 19 00-0293 Triangle Aluminum Gable Louver Vents (08 91 19 00-0228)</b>					
Note: Includes screen.					
08 91	19 00-0294	EA	36" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	288.17	11.07
08 91	19 00-0295	EA	36" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	327.11	13.29
08 91	19 00-0296	EA	48" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	351.00	14.08
08 91	19 00-0297	EA	48" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	402.50	16.88
08 91	19 00-0298	EA	48" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	447.67	17.59
08 91	19 00-0299	EA	60" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent.....	372.12	21.10
08 91	19 00-0300	EA	60" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	436.52	24.63
08 91	19 00-0301	EA	60" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	492.46	25.33
08 91	19 00-0302	EA	60" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	558.95	29.56
08 91	19 00-0303	EA	72" Base x 24" High Triangle Fixed Aluminum Gable Louver Vent.....	453.22	33.78
08 91	19 00-0304	EA	72" Base x 30" High Triangle Fixed Aluminum Gable Louver Vent.....	519.92	34.48
08 91	19 00-0305	EA	72" Base x 36" High Triangle Fixed Aluminum Gable Louver Vent.....	599.29	39.40
08 91	19 00-0306	EA	72" Base x 42" High Triangle Fixed Aluminum Gable Louver Vent.....	680.79	45.03
08 91	19 00-0307	EA	72" Base x 48" High Triangle Fixed Aluminum Gable Louver Vent.....	765.53	51.75
<b>08 91 19 00-0308 Vinyl Gable Louver Vents (08 91 19 00-0227)</b>					
Note: Includes screen.					
08 91	19 00-0309	EA	12" x 12" Square Fixed Vinyl Gable Louver Vent.....	51.53	8.88
08 91	19 00-0310	EA	12" x 18" Rectangular Fixed Vinyl Gable Louver Vent.....	61.29	9.65
08 91	19 00-0311	EA	18" x 24" Rectangular Fixed Vinyl Gable Louver Vent.....	83.05	12.50
08 91	19 00-0312	EA	24" x 30" Rectangular Fixed Vinyl Gable Louver Vent.....	110.99	14.08
08 91	19 00-0313	EA	18" Diameter Round Fixed Vinyl Gable Louver Vent.....	79.63	11.26
08 91	19 00-0314	EA	22" Diameter Round Fixed Vinyl Gable Louver Vent.....	92.28	13.29
08 91	19 00-0315	EA	30" Diameter Round Fixed Vinyl Gable Louver Vent.....	129.07	17.59
08 91	19 00-0316	EA	36" Diameter Round Fixed Vinyl Gable Louver Vent.....	188.31	25.33
08 91	19 00-0317	EA	18" x 18" Octagonal Fixed Vinyl Gable Louver Vent.....	79.63	11.26
08 91	19 00-0318	EA	22" x 22" Octagonal Fixed Vinyl Gable Louver Vent.....	89.94	12.50
08 91	19 00-0319	EA	27" x 27" Octagonal Fixed Vinyl Gable Louver Vent.....	114.17	14.08





<b>Openings</b>	<b>08</b>	<b>08</b>
Louvers And Vents	08 90	
Louvers	08 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
08 91	19 00-0320	EA	32" x 32" Octagonal Fixed Vinyl Gable Louver Vent.....	163.14	21.10
08 91	19 00-0321	EA	40" x 40" Octagonal Fixed Vinyl Gable Louver Vent.....	372.94	33.78
08 91	19 00-0322	EA	14" x 22" Round Top Fixed Vinyl Gable Louver Vent.....	78.08	11.07
08 91	19 00-0323	EA	22" x 32" Round Top Fixed Vinyl Gable Louver Vent.....	107.59	14.08
08 91	19 00-0324	EA	34" x 22" Half Round Fixed Vinyl Gable Louver Vent.....	113.55	16.88
08 91	19 00-0325	EA	52" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent.....	244.66	21.10
08 91	19 00-0326	EA	56" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent.....	244.66	21.10
08 91	19 00-0327	EA	56" Base x 26" High Triangle Fixed Vinyl Gable Louver Vent.....	244.66	21.10
08 91	19 00-0328	EA	62" Base x 23" High Triangle Fixed Vinyl Gable Louver Vent.....	244.66	21.10
08 91	19 00-0329	EA	62-1/2" Base x 21" High Triangle Fixed Vinyl Gable Louver Vent.....	244.66	21.10
08 91	19 00-0330	EA	70-1/2" Base x 17" High Triangle Fixed Vinyl Gable Louver Vent.....	282.70	33.78
08 91	19 00-0331	EA	70-1/2" Base x 20-1/2" High Triangle Fixed Vinyl Gable Louver Vent.....	282.70	33.78
08 91	19 00-0332	EA	72-1/2" Base x 18" High Triangle Fixed Vinyl Gable Louver Vent.....	282.70	33.78
08 91	19 00-0333	EA	74" Base x 14-1/2" High Triangle Fixed Vinyl Gable Louver Vent.....	282.70	33.78
<b>08 95 Vents</b> <small>(08 90)</small>					
<b>08 95 13 Soffit Vents</b> <small>(08 95)</small>					
<b>08 95 13 00-0001 Aluminum Soffit Vents</b> <small>(08 95 13)</small>					
	08 95 13 00-0002	LF	2-1/2" Wide Aluminum Soffit Vent.....	6.99	2.77
	08 95 13 00-0003	LF	3" Wide Aluminum Soffit Vent.....	13.05	5.41
	08 95 13 00-0004	EA	4" x 16" Under Eave Vent, Mill Finish.....	19.83	7.22
	08 95 13 00-0005	EA	8" x 16" Under Eave Vent, Mill Finish.....	20.31	7.22
<b>08 95 13 00-0006 Vinyl Soffit Vents</b> <small>(08 95 13)</small>					
	08 95 13 00-0007	LF	Up To 2" Vinyl Soffit Vent, Perforated, White.....	4.94	2.16
			<i>For Colors, Add</i>	0.06	
	08 95 13 00-0008	LF	3" To 4" Vinyl Soffit Vent, Perforated, White.....	4.98	2.16
			<i>For Colors, Add</i>	0.07	
<b>08 95 16 Wall Vents</b> <small>(08 95)</small>					
<b>08 95 16 00-0001 Foundation Vents</b> <small>(08 95 16)</small>					
	08 95 16 00-0002	SI	Galvanized Steel Foundation Vent.....	0.46	0.18
	08 95 16 00-0003	SI	Aluminum Foundation Vent.....	0.62	0.18
	08 95 16 00-0004	SI	Stainless Steel Foundation Vent.....	0.81	0.18
	08 95 16 00-0005	SI	Plastic Foundation Vent.....	0.35	0.18

**END OF SECTION 08**

08	<b>08</b>	<b>Openings</b>
	08 90	Louvers And Vents
	08 95	Vents




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MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

### 22 01 Operation and Maintenance of Plumbing<sup>(22)</sup>

#### 22 01 10 Operation And Maintenance Of Plumbing Piping And Pumps<sup>(22 01)</sup>

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

#### **22 01 10 61 Plumbing Piping Repairs<sup>(22 01 10)</sup>**

##### 22 01 10 61-0001 Pipe Repair Clamps<sup>(22 01 10 61)</sup>

22 01 10 61-0002	EA	1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	30.58
22 01 10 61-0003	EA	3/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	32.35
22 01 10 61-0004	EA	1" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	35.66
22 01 10 61-0005	EA	1-1/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	38.30
22 01 10 61-0006	EA	1-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	41.94
22 01 10 61-0007	EA	2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	53.91
22 01 10 61-0008	EA	2-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	70.90
22 01 10 61-0009	EA	3" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	84.00
22 01 10 61-0010	EA	4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt Note: Includes neoprene gasket	96.75
22 01 10 61-0011	EA	1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	47.28
22 01 10 61-0012	EA	3/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	49.91
22 01 10 61-0013	EA	1" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	55.28
22 01 10 61-0014	EA	1-1/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	60.77
22 01 10 61-0015	EA	1-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	67.38
22 01 10 61-0016	EA	2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	87.38
22 01 10 61-0017	EA	2-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	110.15
22 01 10 61-0018	EA	3" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	128.20
22 01 10 61-0019	EA	4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt Note: Includes neoprene gasket	146.40
22 01 10 61-0020	EA	1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	65.09
22 01 10 61-0021	EA	3/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	68.59
22 01 10 61-0022	EA	1" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	75.87
22 01 10 61-0023	EA	1-1/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	83.26
22 01 10 61-0024	EA	1-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	94.11
22 01 10 61-0025	EA	2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	116.65
22 01 10 61-0026	EA	2-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	142.97
22 01 10 61-0027	EA	3" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	173.66
22 01 10 61-0028	EA	4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	211.40
22 01 10 61-0029	EA	5" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	218.25
22 01 10 61-0030	EA	6" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt Note: Includes Buna rubber gasket	233.33

#### 22 01 40 Operation and Maintenance of Plumbing Fixtures<sup>(22 01)</sup>

##### **22 01 40 81 Plumbing Fixtures Replacement<sup>(22 01 40)</sup>**

##### 22 01 40 81-0001 Fixture And/Or Trim Replacement<sup>(22 01 40 81)</sup>

Note: Includes removal of existing item(s) and installation of new item(s).

22 01 40 81-0002	EA	3/8" To 1/2" Compression Shut-off Valve Replacement With 15" Polybutylene Supply Tube	60.22
22 01 40 81-0003	EA	3/8" Compression x 1/2" FIP, Braided Stainless Steel, Supply Lines To Sink/Lavatory Replacement	19.48
22 01 40 81-0004	EA	Chrome Supply Lines To Sink/Lavatory Replacement, Pair	29.07
22 01 40 81-0005	EA	Single Bowl Sink/Lavatory Drain Line Replacement	40.82

**22 Plumbing**  
**22 01 Operation and Maintenance of Plumbing**  
**22 01 40 Operation and Maintenance of Plumbing Fixtures**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 01 40 81-0006	EA		Double Bowl Sink/Lavatory Drain Line Replacement.....	63.26	
22 01 40 81-0007	EA		Shower Head, Polished Chrome, Replacement.....	39.71	
22 01 40 81-0008	EA		Shower Arm Replacement.....	35.18	
22 01 40 81-0009	EA		Shower Head Replacement.....	38.65	
22 01 40 81-0010	EA		Shower Knob Replacement.....	33.29	
22 01 40 81-0011	EA		Shower and Tub Control Trim Replacement.....	90.21	
			Note: Excludes balancing valve.		
22 01 40 81-0012	EA		Sink Basket Strainer Replacement.....	18.88	
22 01 40 81-0013	EA		Sink Drain Without Stopper, 1-1/2" Replacement.....	11.90	
22 01 40 81-0014	EA		Sink Drain Without Stopper, 4-1/2" Replacement.....	12.31	
22 01 40 81-0015	EA		Sink Drain With Stopper, 1-1/2" Replacement.....	11.90	
22 01 40 81-0016	EA		1" Sink Rubber Stopper Replacement.....	9.22	
22 01 40 81-0017	EA		Sink Tailpiece Extension 1-1/2" x 8" Replacement.....	25.22	
22 01 40 81-0018	EA		Sink Trap, Adjustable, 1-1/2" Replacement.....	36.90	
22 01 40 81-0019	EA		Lavatory Pop-Up Rod Replacement.....	24.59	
22 01 40 81-0020	EA		Lavatory Pop-up Drain Stopper Replacement.....	29.82	
22 01 40 81-0021	EA		Faucet Handle Replacement.....	31.49	
22 01 40 81-0022	EA		Faucet O-Ring Replacement.....	25.91	
22 01 40 81-0023	EA		1-1/2" Faucet Hole Cover.....	16.57	
22 01 40 81-0024	EA		Toilet Ballcock Replacement.....	38.13	
22 01 40 81-0025	EA		Toilet Bowl Ring, Flat Wax, Replacement.....	7.31	
			Note: Excludes removal of toilet.		
22 01 40 81-0026	EA		Toilet Tank Replacement.....	149.19	
22 01 40 81-0027	EA		Toilet Bowl, 10" Replacement.....	190.20	
22 01 40 81-0028	EA		Toilet Bowl, 10", Low-Flush Watersaver, Replacement.....	203.51	
22 01 40 81-0029	EA		Toilet Bowl, 12", Replacement.....	216.36	
22 01 40 81-0030	EA		Toilet Bowl, Elongated, 18", Replacement.....	194.68	
22 01 40 81-0031	EA		Toilet Closet Bolt, 5/16" x 3" With Nuts And Washers Replacement.....	24.06	
22 01 40 81-0032	EA		Toilet Flapper With Chain Replacement.....	17.34	
22 01 40 81-0033	EA		Toilet Flush Tank Lever Replacement.....	18.87	
22 01 40 81-0034	EA		Elongated Toilet Seat With Lid Replacement.....	95.98	
22 01 40 81-0035	EA		Elongated Toilet Seat Without Lid Replacement.....	79.50	
22 01 40 81-0036	EA		Handicap Toilet Seat Replacement, Complete With Rails.....	141.12	
22 01 40 81-0037	EA		Diverter Tub Spout Replacement.....	47.57	
22 01 40 81-0038	EA		Tub Spout Replacement.....	36.03	
22 01 40 81-0039	EA		2" Tub Stopper, Replacement.....	10.78	
22 01 40 81-0040	EA		Tub Waste/Overflow Replacement.....	73.47	
22 01 40 81-0041	EA		Tub Stem Bonnet Assembly Replacement.....	38.45	
22 01 40 81-0042	EA		Faucet Bonnet Replacement.....	42.08	
22 01 40 81-0043	EA		Faucet Diverter Stem Replacement.....	26.54	
22 01 40 81-0044	EA		Faucet Diverter Stem And Bonnet Replacement.....	35.05	
22 01 40 81-0045	EA		Faucet Spout Replacement.....	39.43	
22 01 40 81-0046	EA		Faucet Stem Replacement.....	29.17	
22 01 40 81-0047	EA		Chrome Plated Plastic Drinking Fountain Bubbler Valve With Flexible Bubbler Guard Replacement.....	156.84	
22 01 40 81-0048	EA		Chrome Plated Brass Drinking Fountain Bubbler Valve Replacement.....	192.19	
22 01 40 81-0049	EA		Stainless Steel (Lead Free) Drinking Fountain Pushbutton Bubbler Valve Replacement.....	124.35	

## 22 05 Common Work Results for Plumbing <sup>(22)</sup>

### 22 05 13 Common Motor Requirements For Plumbing Equipment <sup>(22 05)</sup>

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

### 22 05 19 Meters And Gages For Plumbing Piping <sup>(22 05)</sup>

See CSI section 23 05 19 00-0000 for gages.

### 22 05 23 General-Duty Valves For Plumbing Piping <sup>(22 05)</sup>

See CSI section 23 05 23 00-0000 for valves.

#### 22 05 23 00-0001 Earthquake-Sensitive Gas Shut-Off Valve <sup>(22 05 23)</sup>

#### 22 05 23 00-0002 0.5 PSI Threaded Earthquake Gas Shutoff Valves <sup>(22 05 23 00-0001)</sup>

22 05 23 00-0003	EA		3/4" 0.5 PSI Threaded Earthquake Gas Shutoff Valve.....	183.01	12.93
22 05 23 00-0004	EA		1" 0.5 PSI Threaded Earthquake Gas Shutoff Valve.....	207.08	14.70

#### 22 05 23 00-0005 7 PSI Threaded Earthquake Gas Shutoff Valves <sup>(22 05 23 00-0001)</sup>

22 05 23 00-0006	EA		1-1/4" 7 PSI Threaded Earthquake Gas Shutoff Valve.....	241.74	15.64
22 05 23 00-0007	EA		1-1/2" 7 PSI Threaded Earthquake Gas Shutoff Valve.....	326.38	18.10

#### 22 05 23 00-0008 60 PSI Threaded Earthquake Gas Shutoff Valves <sup>(22 05 23 00-0001)</sup>

22 05 23 00-0009	EA		3/4" 60 PSI Threaded Earthquake Gas Shutoff Valve.....	226.57	12.93
22 05 23 00-0010	EA		1" 60 PSI Threaded Earthquake Gas Shutoff Valve.....	237.33	14.70
22 05 23 00-0011	EA		1-1/4" 60 PSI Threaded Earthquake Gas Shutoff Valve.....	265.93	15.64
22 05 23 00-0012	EA		1-1/2" 60 PSI Threaded Earthquake Gas Shutoff Valve.....	362.68	18.10
22 05 23 00-0013	EA		2" 60 PSI Threaded Earthquake Gas Shutoff Valve.....	832.84	21.40
22 05 23 00-0014	EA		2-1/2" 60 PSI Threaded Earthquake Gas Shutoff Valve.....	990.80	28.81
22 05 23 00-0015	EA		3" 60 PSI Threaded Earthquake Gas Shutoff Valve.....	1,285.66	33.55
22 05 23 00-0016	EA		4" 60 PSI Threaded Earthquake Gas Shutoff Valve.....	1,490.05	37.88



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 23 00-0017			<b>60 PSI Flanged Earthquake Gas Shutoff Valves</b> <small>(22 05 23 00-0001)</small>		
22 05 23 00-0018	EA		2" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	1,163.90	156.75
22 05 23 00-0019	EA		3" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	1,434.12	183.99
22 05 23 00-0020	EA		4" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	2,019.88	308.44
22 05 23 00-0021	EA		6" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	3,282.40	350.05
22 05 23 00-0022	EA		8" 60 PSI Flanged Earthquake Gas Shutoff Valve.....	8,903.95	447.29
22 05 23 00-0023			<b>Emergency Shut-Off Valve With Fusible Link</b> <small>(22 05 23)</small>		
22 05 23 00-0024			<b>Threaded Brass, Fusible Gate Valves (Morrison Bros. 939)</b> <small>(22 05 23 00-0023)</small>		
			Note: Brass globe/gate valve used to shut off product flow in the event of a fire. Fusible element in the handwheel automatically closes the valve when in contact with 165° F.		
22 05 23 00-0025	EA		1/4" Threaded Brass, Fusible Gate Valve (Morrison Bros. 939 Series) ..... <i>For Work In Restricted Working Space, Add</i>	63.90 10.27	18.93
22 05 23 00-0026	EA		3/8" Threaded Brass, Fusible Gate Valve (Morrison Bros. 939 Series) ..... <i>For Work In Restricted Working Space, Add</i>	65.75 10.83	19.99
22 05 23 00-0027	EA		1/2" Threaded Brass, Fusible Gate Valve (Morrison Bros. 939 Series) ..... <i>For Work In Restricted Working Space, Add</i>	98.98 11.38	18.93
22 05 23 00-0028	EA		3/4" Threaded Brass, Fusible Gate Valve (Morrison Bros. 939 Series) ..... <i>For Work In Restricted Working Space, Add</i>	186.66 15.34	25.52
22 05 23 00-0029	EA		1" Threaded Brass, Fusible Gate Valve (Morrison Bros. 939 Series) ..... <i>For Work In Restricted Working Space, Add</i>	446.13 18.57	30.92
22 05 23 00-0030			<b>Threaded Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)</b> <small>(22 05 23 00-0023)</small>		
			Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.		
22 05 23 00-0031	EA		1-1/2" Threaded Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	355.85	18.10
22 05 23 00-0032	EA		2" Threaded Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	387.27	21.40
22 05 23 00-0033	EA		3" Threaded Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	645.68	33.55
22 05 23 00-0034			<b>Flanged Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI)</b> <small>(22 05 23 00-0023)</small>		
			Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.		
22 05 23 00-0035	EA		2" Flanged Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	538.34	156.75
22 05 23 00-0036	EA		3" Flanged Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	843.82	183.99
22 05 23 00-0037	EA		4" Flanged Ductile Iron, Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	1,878.26	308.44
22 05 29			<b>Hangers And Supports For Plumbing Piping And Equipment</b> <small>(22 05)</small>		
			See CSI section 23 05 29 00-0000 for hangers and supports.		
22 05 33			<b>Heat Tracing For Plumbing Piping</b> <small>(22 05)</small>		
22 05 48			<b>Vibration And Seismic Controls For Plumbing Piping And Equipment</b> <small>(22 05)</small>		
22 05 48 13			<b>Vibration Controls For Plumbing Piping And Equipment</b> <small>(22 05 48)</small>		
			See CSI section 23 05 48 13-0000 for vibration and seismic control.		
22 05 53			<b>Identification For Plumbing Piping And Equipment</b> <small>(22 05)</small>		
			See CSI section 23 05 53 00-0000 for identification.		
22 05 76			<b>Facility Drainage Piping Cleanouts</b> <small>(22 05)</small>		
22 05 76 00-0001			<b>Cast Iron Cleanout With Plug And Cover</b> <small>(22 05 76)</small>		
			Note: For floor installation.		
22 05 76 00-0002			<b>Cast Iron Cleanout With Plug And Round Or Square Cover</b> <small>(22 05 76 00-0001)</small>		
22 05 76 00-0003	EA		2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... <i>For Vandal Proof, Add</i> <i>For Galvanized Ferrule, Add</i> <i>For Carpet Marker, Add</i> <i>For Carpet Flange, Add</i> <i>For Wide Flange, Add</i> <i>For Satin Bronze Top, Deduct</i>	408.17 19.50 45.00 16.00 58.50 97.00 -24.00	62.56
22 05 76 00-0004	EA		3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover..... <i>For Vandal Proof, Add</i> <i>For Galvanized Ferrule, Add</i> <i>For Carpet Marker, Add</i> <i>For Carpet Flange, Add</i> <i>For Wide Flange, Add</i> <i>For Satin Bronze Top, Deduct</i>	451.62 19.50 45.00 16.00 58.50 97.00 -24.00	78.44

**22 Plumbing****22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0005 EA 4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	560.94	94.77
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0006 EA 5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	775.68	106.06
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0007 EA 6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	939.50	114.89
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
<b>22 05 76 00-0008 Cast Iron Heavy Duty Cleanout With Plug And Round Cover (22 05 76 00-0001)</b>		
22 05 76 00-0009 EA 2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	461.09	62.56
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0010 EA 3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	505.30	78.32
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0011 EA 4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	614.70	94.77
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0012 EA 5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	829.50	106.06
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
22 05 76 00-0013 EA 6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	993.23	114.89
For Vandal Proof, Add	19.50	
For Galvanized Ferrule, Add	45.00	
For Carpet Marker, Add	16.00	
For Carpet Flange, Add	58.50	
For Wide Flange, Add	97.00	
For Satin Bronze Top, Deduct	-24.00	
<b>22 05 76 00-0014 Wall Cover For Cleanout (22 05 76)</b>		
Note: Cover and screw only.		
<b>22 05 76 00-0015 Round Access Cover, Bronze Polished Top (22 05 76 00-0014)</b>		
Note: Cover and screw only.		
22 05 76 00-0016 EA 4-1/4" Diameter Wall Cover For Cleanout, Screwed.....	71.11	19.64
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0017 EA 5-1/2" Diameter Wall Cover For Cleanout, Screwed.....	78.96	23.52
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0018 EA 7" Diameter Wall Cover For Cleanout, Screwed.....	97.44	26.45
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0019 EA 9-1/4" Diameter Wall Cover For Cleanout, Screwed.....	150.35	29.40
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
22 05 76 00-0020 EA 11-1/4" Diameter Wall Cover For Cleanout, Screwed.....	215.03	32.34
For Stainless Steel, Add	9.00	
For Vandal Proof Screws, Add	19.50	
<b>22 05 76 00-0021 Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014)</b>		
Note: Cover and screw only.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0022 EA 7" x 7" Bronze Wall Or Floor Access Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	190.39 19.50 22.50	19.64
22 05 76 00-0023 EA 9" x 9" Bronze Wall Or Floor Access Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	263.75 19.50 22.50	20.58
22 05 76 00-0024 EA 10" x 10" Bronze Wall Or Floor Access Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	281.50 19.50 22.50	21.75
22 05 76 00-0025 EA 14" x 14" Bronze Wall Or Floor Access Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	315.39 19.50 22.50	24.70
<b>22 05 76 00-0026 Secured Square Wall Access Panel, Bronze Polished Top</b> (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0027 EA 6" x 6" Bronze Secured Wall Access Panel ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	190.39 19.50 22.50	19.64
22 05 76 00-0028 EA 8" x 8" Bronze Secured Wall Access Panel ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	263.75 19.50 22.50	20.58
22 05 76 00-0029 EA 10" x 10" Bronze Secured Wall Access Panel ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	281.51 19.50 22.50	21.75
22 05 76 00-0030 EA 12" x 12" Bronze Secured Wall Access Panel ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	315.39 19.50 22.50	24.70
<b>22 05 76 00-0031 Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated</b> (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0032 EA 6" x 6" Bronze Secured Hinged Access Panel, Scoriated ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	185.49 19.50 22.50	19.64
22 05 76 00-0033 EA 8" x 8" Bronze Secured Hinged Access Panel, Scoriated ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	247.65 19.50 22.50	20.58
22 05 76 00-0034 EA 10" x 10" Bronze Secured Hinged Access Panel, Scoriated ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	341.01 19.50 22.50	21.75
22 05 76 00-0035 EA 12" x 12" Bronze Secured Hinged Access Panel, Scoriated ..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	410.59 19.50 22.50	24.70
<b>22 05 76 00-0036 Cast Iron Cleanout Tee</b> (22 05 76)		
<b>22 05 76 00-0037 Cast Iron Cleanout Tee And Round Access Cover</b> (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0038 EA 2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	302.33 18.00 45.00	62.56
22 05 76 00-0039 EA 3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	352.42 18.00 45.00	78.32
22 05 76 00-0040 EA 4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	452.58 18.00 45.00	94.77
22 05 76 00-0041 EA 6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	968.03 18.00 45.00	114.89
<b>22 05 76 00-0042 Cast Iron Cleanout Tee And Square Access Cover</b> (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0043 EA 2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	479.57 18.00 45.00	62.56
22 05 76 00-0044 EA 3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	529.66 18.00 45.00	78.32
22 05 76 00-0045 EA 4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	618.06 18.00 45.00	94.77
22 05 76 00-0046 EA 6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover ..... <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,207.43 18.00 45.00	114.89
<b>22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug</b> (22 05 76 00-0036)		
22 05 76 00-0048 EA 2" Cleanout Tee With Cast Bronze Screw Plug .....	247.63	51.15
22 05 76 00-0049 EA 3" Cleanout Tee With Cast Bronze Screw Plug .....	275.51	55.85
22 05 76 00-0050 EA 4" Cleanout Tee With Cast Bronze Screw Plug .....	366.23	73.49

**22 Plumbing****22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0051	EA		5" Cleanout Tee With Cast Bronze Screw Plug .....	526.83	87.02
22 05 76 00-0052	EA		6" Cleanout Tee With Cast Bronze Screw Plug .....	852.58	102.89
<b>22 05 76 00-0053</b>			<b>Removable Cleanout Plug (22 05 76)</b>		
<b>22 05 76 00-0054</b>			<b>Threaded Bronze Plugs (22 05 76 00-0053)</b>		
22 05 76 00-0055	EA		1-1/4", 1-1/2" Or 2" Threaded Bronze Plug .....	44.91	14.70
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0056	EA		2-1/2" Threaded Bronze Plug .....	51.46	15.99
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0057	EA		3" Threaded Bronze Plug .....	75.24	17.64
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0058	EA		3-1/2" Threaded Bronze Plug .....	85.33	20.58
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0059	EA		4" Threaded Bronze Plug .....	96.82	23.52
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0060	EA		5" Threaded Bronze Plug .....	127.21	26.45
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0061	EA		6" Threaded Bronze Plug .....	174.38	29.40
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0062	EA		8" Threaded Bronze Plug .....	271.17	32.34
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0063	EA		10" Threaded Bronze Plug .....	375.06	35.27
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
<b>22 05 76 00-0064</b>			<b>Threaded Brass Plugs (22 05 76 00-0053)</b>		
22 05 76 00-0065	EA		1-1/2" Threaded Brass Plug, Raised Head .....	34.96	14.70
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0066	EA		2" Threaded Brass Plug, Raised Head .....	35.92	14.70
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0067	EA		2-1/2" Threaded Brass Plug, Raised Head .....	39.39	15.99
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0068	EA		3" Threaded Brass Plug, Raised Head .....	45.01	17.63
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0069	EA		3-1/2" Threaded Brass Plug, Raised Head .....	53.51	20.58
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0070	EA		4" Threaded Brass Plug, Raised Head .....	63.78	23.52
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0071	EA		4-1/2" Threaded Brass Plug, Raised Head .....	68.87	24.77
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0072	EA		5" Threaded Brass Plug, Raised Head .....	74.59	26.45
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0073	EA		6" Threaded Brass Plug, Raised Head .....	103.93	29.40
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0074	EA		1-1/2" Threaded Brass Plug, Countersunk Head .....	34.20	14.70
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0075	EA		2" Threaded Brass Plug, Countersunk Head .....	35.27	14.70
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0076	EA		2-1/2" Threaded Brass Plug, Countersunk Head .....	41.49	15.99
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0077	EA		3" Threaded Brass Plug, Countersunk Head .....	45.32	17.64
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0078	EA		3-1/2" Threaded Brass Plug, Countersunk Head .....	52.60	20.58
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0079	EA		4" Threaded Brass Plug, Countersunk Head .....	62.36	23.52
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0080	EA		5" Threaded Brass Plug, Countersunk Head .....	73.81	26.45
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	
22 05 76 00-0081	EA		6" Threaded Brass Plug, Countersunk Head .....	91.34	29.40
			<i>For Plug Tapped For Center Screw, Add</i> .....	9.50	

**22 07 Plumbing Insulation (22)****22 07 16 Plumbing Equipment Insulation (22 07)****22 07 16 00-0001 Lavatory Insulation (22 07 16)**

22 07 16 00-0002	EA		Neoprene Insulation Kit For Under Lavatories .....	208.56	25.93
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**22 07 19 Plumbing Piping Insulation (22 07)****22 07 19 00-0001 Fiberglass Pipe Insulation (22 07 19)**

Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.

22 07 19 00-0002			1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
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MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST
22 07 19 00-0003 LF 1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	7.60	2.53
For Single Layer Of Felt Finish, Add	0.08	
For Work In Restricted Working Space, Add	2.06	
22 07 19 00-0004 LF 3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	7.68	2.53
For Single Layer Of Felt Finish, Add	0.09	
For Work In Restricted Working Space, Add	2.06	
22 07 19 00-0005 LF 1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	8.15	2.65
For Single Layer Of Felt Finish, Add	0.09	
For Work In Restricted Working Space, Add	2.18	
22 07 19 00-0006 LF 1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	8.39	2.76
For Single Layer Of Felt Finish, Add	0.10	
For Work In Restricted Working Space, Add	2.23	
22 07 19 00-0007 LF 1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	8.58	2.76
For Single Layer Of Felt Finish, Add	0.11	
For Work In Restricted Working Space, Add	2.27	
22 07 19 00-0008 LF 2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	9.06	2.88
For Single Layer Of Felt Finish, Add	0.12	
For Work In Restricted Working Space, Add	2.39	
22 07 19 00-0009 LF 2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	9.36	2.99
For Single Layer Of Felt Finish, Add	0.13	
For Work In Restricted Working Space, Add	2.43	
22 07 19 00-0010 LF 3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	9.78	3.11
For Single Layer Of Felt Finish, Add	0.15	
For Work In Restricted Working Space, Add	2.51	
22 07 19 00-0011 LF 4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.86	3.35
For Single Layer Of Felt Finish, Add	0.19	
For Work In Restricted Working Space, Add	2.72	
22 07 19 00-0012 LF 6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.76	3.92
For Single Layer Of Felt Finish, Add	0.23	
For Work In Restricted Working Space, Add	3.17	
<b>22 07 19 00-0013 1" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>		
22 07 19 00-0014 LF 1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.35	3.46
For Single Layer Of Felt Finish, Add	0.09	
For Work In Restricted Working Space, Add	2.84	
22 07 19 00-0015 LF 3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.48	3.46
For Single Layer Of Felt Finish, Add	0.11	
For Work In Restricted Working Space, Add	2.84	
22 07 19 00-0016 LF 1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.64	3.46
For Single Layer Of Felt Finish, Add	0.11	
For Work In Restricted Working Space, Add	2.88	
22 07 19 00-0017 LF 1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	10.91	3.58
For Single Layer Of Felt Finish, Add	0.12	
For Work In Restricted Working Space, Add	2.93	
22 07 19 00-0018 LF 1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	11.13	3.58
For Single Layer Of Felt Finish, Add	0.13	
For Work In Restricted Working Space, Add	2.96	
22 07 19 00-0019 LF 2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	11.52	3.69
For Single Layer Of Felt Finish, Add	0.14	
For Work In Restricted Working Space, Add	3.05	
22 07 19 00-0020 LF 2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.08	3.92
For Single Layer Of Felt Finish, Add	0.16	
For Work In Restricted Working Space, Add	3.17	
22 07 19 00-0021 LF 3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	12.54	4.04
For Single Layer Of Felt Finish, Add	0.18	
For Work In Restricted Working Space, Add	3.25	
22 07 19 00-0022 LF 4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	13.86	4.26
For Single Layer Of Felt Finish, Add	0.23	
For Work In Restricted Working Space, Add	3.50	
22 07 19 00-0023 LF 6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	15.84	4.95
For Single Layer Of Felt Finish, Add	0.28	
For Work In Restricted Working Space, Add	3.95	
22 07 19 00-0024 LF 8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.92	5.54
For Single Layer Of Felt Finish, Add	0.40	
For Work In Restricted Working Space, Add	4.53	
22 07 19 00-0025 LF 10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.30	6.57
For Single Layer Of Felt Finish, Add	0.47	
For Work In Restricted Working Space, Add	5.35	
22 07 19 00-0026 LF 12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.66	7.50
For Single Layer Of Felt Finish, Add	0.53	
For Work In Restricted Working Space, Add	6.18	
22 07 19 00-0027 LF 14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.18	8.19
For Single Layer Of Felt Finish, Add	0.62	
For Work In Restricted Working Space, Add	6.39	
<b>22 07 19 00-0028 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>		
22 07 19 00-0029 LF 1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	11.66	3.57
For Single Layer Of Felt Finish, Add	0.19	
For Work In Restricted Working Space, Add	2.96	
22 07 19 00-0030 LF 3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	11.74	3.57
For Single Layer Of Felt Finish, Add	0.20	
For Work In Restricted Working Space, Add	2.96	

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0031	LF		1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	12.42	3.77
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.21	
			<i>For Work In Restricted Working Space, Add</i> .....	3.14	
22 07 19 00-0032	LF		1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	12.76	3.85
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.22	
			<i>For Work In Restricted Working Space, Add</i> .....	3.20	
22 07 19 00-0033	LF		1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	13.07	3.92
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.23	
			<i>For Work In Restricted Working Space, Add</i> .....	3.26	
22 07 19 00-0034	LF		2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	13.87	4.13
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.26	
			<i>For Work In Restricted Working Space, Add</i> .....	3.43	
22 07 19 00-0035	LF		2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	14.32	4.20
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.28	
			<i>For Work In Restricted Working Space, Add</i> .....	3.50	
22 07 19 00-0036	LF		3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	14.79	4.35
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.29	
			<i>For Work In Restricted Working Space, Add</i> .....	3.61	
22 07 19 00-0037	LF		4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	16.16	4.70
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.33	
			<i>For Work In Restricted Working Space, Add</i> .....	3.90	
22 07 19 00-0038	LF		6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	18.78	5.49
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.38	
			<i>For Work In Restricted Working Space, Add</i> .....	4.56	
22 07 19 00-0039	LF		8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	20.54	5.79
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.47	
			<i>For Work In Restricted Working Space, Add</i> .....	4.81	
22 07 19 00-0040	LF		10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	24.87	6.93
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.60	
			<i>For Work In Restricted Working Space, Add</i> .....	5.76	
22 07 19 00-0041	LF		12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	28.54	8.07
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.65	
			<i>For Work In Restricted Working Space, Add</i> .....	6.71	
22 07 19 00-0042	LF		14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	31.66	8.84
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.75	
			<i>For Work In Restricted Working Space, Add</i> .....	7.35	
<b>22 07 19 00-0043</b>			<b>2" Thick Fiberglass Pipe Insulation</b> (22 07 19 00-0001) .....		
22 07 19 00-0044	LF		1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	13.64	3.92
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.29	
			<i>For Work In Restricted Working Space, Add</i> .....	3.25	
22 07 19 00-0045	LF		3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	13.74	3.92
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.30	
			<i>For Work In Restricted Working Space, Add</i> .....	3.25	
22 07 19 00-0046	LF		1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	14.08	4.04
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.33	
			<i>For Work In Restricted Working Space, Add</i> .....	3.29	
22 07 19 00-0047	LF		1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	14.38	4.04
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.34	
			<i>For Work In Restricted Working Space, Add</i> .....	3.33	
22 07 19 00-0048	LF		1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	14.71	4.15
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.36	
			<i>For Work In Restricted Working Space, Add</i> .....	3.38	
22 07 19 00-0049	LF		2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	15.26	4.26
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.38	
			<i>For Work In Restricted Working Space, Add</i> .....	3.50	
22 07 19 00-0050	LF		2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	15.94	4.38
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.41	
			<i>For Work In Restricted Working Space, Add</i> .....	3.62	
22 07 19 00-0051	LF		3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	16.66	4.61
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.44	
			<i>For Work In Restricted Working Space, Add</i> .....	3.75	
22 07 19 00-0052	LF		4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	17.94	4.84
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.50	
			<i>For Work In Restricted Working Space, Add</i> .....	3.95	
22 07 19 00-0053	LF		6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	21.35	5.69
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.58	
			<i>For Work In Restricted Working Space, Add</i> .....	4.74	
22 07 19 00-0054	LF		8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	23.53	6.01
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.72	
			<i>For Work In Restricted Working Space, Add</i> .....	5.00	
22 07 19 00-0055	LF		10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	28.17	7.18
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.86	
			<i>For Work In Restricted Working Space, Add</i> .....	5.99	
22 07 19 00-0056	LF		12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	32.91	8.61
			<i>For Single Layer Of Felt Finish, Add</i> .....	0.95	
			<i>For Work In Restricted Working Space, Add</i> .....	7.17	
22 07 19 00-0057	LF		14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	43.54	9.39
			<i>For Single Layer Of Felt Finish, Add</i> .....	1.07	
			<i>For Work In Restricted Working Space, Add</i> .....	10.01	
22 07 19 00-0058	LF		16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	44.95	11.01
			<i>For Single Layer Of Felt Finish, Add</i> .....	1.22	
			<i>For Work In Restricted Working Space, Add</i> .....	10.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0059 LF 18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.80	11.57
For Single Layer Of Felt Finish, Add	1.45	
For Work In Restricted Working Space, Add	10.51	
22 07 19 00-0060 LF 20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	55.49	13.21
For Single Layer Of Felt Finish, Add	1.62	
For Work In Restricted Working Space, Add	12.01	
22 07 19 00-0061 LF 24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	65.50	15.97
For Single Layer Of Felt Finish, Add	1.80	
For Work In Restricted Working Space, Add	14.51	
<b>22 07 19 00-0062 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>		
22 07 19 00-0063 LF 1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.41	4.61
For Single Layer Of Felt Finish, Add	0.41	
For Work In Restricted Working Space, Add	3.75	
22 07 19 00-0064 LF 3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	16.54	4.61
For Single Layer Of Felt Finish, Add	0.42	
For Work In Restricted Working Space, Add	3.75	
22 07 19 00-0065 LF 1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.02	4.61
For Single Layer Of Felt Finish, Add	0.45	
For Work In Restricted Working Space, Add	3.81	
22 07 19 00-0066 LF 1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.36	4.72
For Single Layer Of Felt Finish, Add	0.48	
For Work In Restricted Working Space, Add	3.84	
22 07 19 00-0067 LF 1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	17.72	4.72
For Single Layer Of Felt Finish, Add	0.51	
For Work In Restricted Working Space, Add	3.87	
22 07 19 00-0068 LF 2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.45	4.95
For Single Layer Of Felt Finish, Add	0.53	
For Work In Restricted Working Space, Add	4.03	
22 07 19 00-0069 LF 2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.32	5.07
For Single Layer Of Felt Finish, Add	0.57	
For Work In Restricted Working Space, Add	4.17	
22 07 19 00-0070 LF 3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	20.16	5.31
For Single Layer Of Felt Finish, Add	0.61	
For Work In Restricted Working Space, Add	4.31	
22 07 19 00-0071 LF 4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	21.89	5.54
For Single Layer Of Felt Finish, Add	0.71	
For Work In Restricted Working Space, Add	4.55	
22 07 19 00-0072 LF 6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.01	5.88
For Single Layer Of Felt Finish, Add	0.82	
For Work In Restricted Working Space, Add	5.17	
22 07 19 00-0073 LF 8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.32	7.03
For Single Layer Of Felt Finish, Add	1.27	
For Work In Restricted Working Space, Add	5.76	
22 07 19 00-0074 LF 10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	36.97	8.07
For Single Layer Of Felt Finish, Add	1.56	
For Work In Restricted Working Space, Add	6.65	
22 07 19 00-0075 LF 12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	43.31	10.03
For Single Layer Of Felt Finish, Add	1.66	
For Work In Restricted Working Space, Add	8.26	
22 07 19 00-0076 LF 14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	48.38	11.06
For Single Layer Of Felt Finish, Add	1.92	
For Work In Restricted Working Space, Add	9.02	
22 07 19 00-0077 LF 16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	58.61	14.07
For Single Layer Of Felt Finish, Add	2.12	
For Work In Restricted Working Space, Add	11.53	
22 07 19 00-0078 LF 18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	62.50	14.76
For Single Layer Of Felt Finish, Add	2.33	
For Work In Restricted Working Space, Add	12.10	
22 07 19 00-0079 LF 20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	71.12	16.83
For Single Layer Of Felt Finish, Add	2.63	
For Work In Restricted Working Space, Add	13.84	
22 07 19 00-0080 LF 24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	84.46	20.34
For Single Layer Of Felt Finish, Add	3.02	
For Work In Restricted Working Space, Add	16.72	
<b>22 07 19 00-0081 3" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>		
22 07 19 00-0082 LF 1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.12	5.09
For Single Layer Of Felt Finish, Add	0.45	
For Work In Restricted Working Space, Add	4.15	
22 07 19 00-0083 LF 3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.26	5.09
For Single Layer Of Felt Finish, Add	0.46	
For Work In Restricted Working Space, Add	4.15	
22 07 19 00-0084 LF 1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	18.74	5.14
For Single Layer Of Felt Finish, Add	0.50	
For Work In Restricted Working Space, Add	4.20	
22 07 19 00-0085 LF 1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.09	5.17
For Single Layer Of Felt Finish, Add	0.53	
For Work In Restricted Working Space, Add	4.22	
22 07 19 00-0086 LF 1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	19.52	5.23
For Single Layer Of Felt Finish, Add	0.56	
For Work In Restricted Working Space, Add	4.27	

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0087	LF	2"	2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.27 0.58 4.43	5.43
22 07 19 00-0088	LF	2-1/2"	2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.22 0.63 4.58	5.62
22 07 19 00-0089	LF	3"	3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.15 0.67 4.74	5.82
22 07 19 00-0090	LF	4"	4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.07 0.77 5.01	6.15
22 07 19 00-0091	LF	6"	6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.49 0.90 5.69	6.97
22 07 19 00-0092	LF	8"	8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.40 1.39 6.34	7.77
22 07 19 00-0093	LF	10"	10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	40.63 1.71 7.31	8.97
22 07 19 00-0094	LF	12"	12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.60 1.82 9.09	11.14
22 07 19 00-0095	LF	14"	14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	53.19 2.11 9.92	12.18
22 07 19 00-0096	LF	16"	16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.42 2.33 12.68	15.55
22 07 19 00-0097	LF	18"	18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	68.70 2.55 13.31	16.34
22 07 19 00-0098	LF	20"	20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.17 2.88 15.22	18.68
22 07 19 00-0099	LF	24"	24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	92.83 3.31 18.39	22.55
<b>22 07 19 00-0100 3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>					
22 07 19 00-0101	LF	1/2"	1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.66 0.47 4.55	5.54
22 07 19 00-0102	LF	3/4"	3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.83 0.49 4.55	5.54
22 07 19 00-0103	LF	1"	1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.45 0.54 4.58	5.54
22 07 19 00-0104	LF	1-1/4"	1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.83 0.57 4.61	5.65
22 07 19 00-0105	LF	1-1/2"	1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.33 0.61 4.67	5.65
22 07 19 00-0106	LF	2"	2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.10 0.63 4.82	5.88
22 07 19 00-0107	LF	2-1/2"	2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.16 0.68 5.00	6.11
22 07 19 00-0108	LF	3"	3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.12 0.72 5.17	6.34
22 07 19 00-0109	LF	4"	4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.29 0.85 5.47	6.68
22 07 19 00-0110	LF	6"	6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	30.01 0.98 6.20	7.61
22 07 19 00-0111	LF	8"	8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	37.56 1.52 6.91	8.42
22 07 19 00-0112	LF	10"	10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	44.37 1.87 7.98	9.69
22 07 19 00-0113	LF	12"	12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	51.97 1.99 9.92	12.11
22 07 19 00-0114	LF	14"	14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) ..... <i>For Single Layer Of Felt Finish, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.07 2.31 10.82	13.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0115 LF 16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	70.35	16.83
<i>For Single Layer Of Felt Finish, Add</i>	2.55	
<i>For Work In Restricted Working Space, Add</i>	13.83	
22 07 19 00-0116 LF 18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	75.00	17.75
<i>For Single Layer Of Felt Finish, Add</i>	2.79	
<i>For Work In Restricted Working Space, Add</i>	14.53	
22 07 19 00-0117 LF 20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	85.37	20.29
<i>For Single Layer Of Felt Finish, Add</i>	3.15	
<i>For Work In Restricted Working Space, Add</i>	16.61	
22 07 19 00-0118 LF 24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	101.35	24.44
<i>For Single Layer Of Felt Finish, Add</i>	3.62	
<i>For Work In Restricted Working Space, Add</i>	20.06	
<b>22 07 19 00-0119 4" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>		
22 07 19 00-0120 LF 1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.10	6.23
<i>For Single Layer Of Felt Finish, Add</i>	0.55	
<i>For Work In Restricted Working Space, Add</i>	5.05	
22 07 19 00-0121 LF 3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.28	6.23
<i>For Single Layer Of Felt Finish, Add</i>	0.57	
<i>For Work In Restricted Working Space, Add</i>	5.05	
22 07 19 00-0122 LF 1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	22.96	6.23
<i>For Single Layer Of Felt Finish, Add</i>	0.61	
<i>For Work In Restricted Working Space, Add</i>	5.14	
22 07 19 00-0123 LF 1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	23.50	6.34
<i>For Single Layer Of Felt Finish, Add</i>	0.65	
<i>For Work In Restricted Working Space, Add</i>	5.20	
22 07 19 00-0124 LF 1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	24.38	6.57
<i>For Single Layer Of Felt Finish, Add</i>	0.68	
<i>For Work In Restricted Working Space, Add</i>	5.36	
22 07 19 00-0125 LF 2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	25.21	6.80
<i>For Single Layer Of Felt Finish, Add</i>	0.71	
<i>For Work In Restricted Working Space, Add</i>	5.53	
22 07 19 00-0126 LF 2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.05	6.80
<i>For Single Layer Of Felt Finish, Add</i>	0.77	
<i>For Work In Restricted Working Space, Add</i>	5.62	
22 07 19 00-0127 LF 3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.21	7.14
<i>For Single Layer Of Felt Finish, Add</i>	0.82	
<i>For Work In Restricted Working Space, Add</i>	5.82	
22 07 19 00-0128 LF 4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.56	7.50
<i>For Single Layer Of Felt Finish, Add</i>	0.95	
<i>For Work In Restricted Working Space, Add</i>	6.14	
22 07 19 00-0129 LF 6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	33.74	8.53
<i>For Single Layer Of Felt Finish, Add</i>	1.10	
<i>For Work In Restricted Working Space, Add</i>	6.97	
22 07 19 00-0130 LF 8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	42.25	9.22
<i>For Single Layer Of Felt Finish, Add</i>	1.72	
<i>For Work In Restricted Working Space, Add</i>	7.77	
22 07 19 00-0131 LF 10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	49.92	10.95
<i>For Single Layer Of Felt Finish, Add</i>	2.10	
<i>For Work In Restricted Working Space, Add</i>	8.98	
22 07 19 00-0132 LF 12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	58.48	13.60
<i>For Single Layer Of Felt Finish, Add</i>	2.24	
<i>For Work In Restricted Working Space, Add</i>	11.15	
22 07 19 00-0133 LF 14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	65.35	14.87
<i>For Single Layer Of Felt Finish, Add</i>	2.60	
<i>For Work In Restricted Working Space, Add</i>	12.18	
22 07 19 00-0134 LF 16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	79.19	19.02
<i>For Single Layer Of Felt Finish, Add</i>	2.86	
<i>For Work In Restricted Working Space, Add</i>	15.58	
22 07 19 00-0135 LF 18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	84.33	19.94
<i>For Single Layer Of Felt Finish, Add</i>	3.14	
<i>For Work In Restricted Working Space, Add</i>	16.33	
22 07 19 00-0136 LF 20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	95.26	22.83
<i>For Single Layer Of Felt Finish, Add</i>	3.46	
<i>For Work In Restricted Working Space, Add</i>	18.68	
22 07 19 00-0137 LF 24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	114.04	27.55
<i>For Single Layer Of Felt Finish, Add</i>	4.07	
<i>For Work In Restricted Working Space, Add</i>	22.57	
22 07 19 00-0138 LF 26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	131.72	32.50
<i>For Single Layer Of Felt Finish, Add</i>	4.52	
<i>For Work In Restricted Working Space, Add</i>	26.60	
22 07 19 00-0139 LF 28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	150.93	38.27
<i>For Single Layer Of Felt Finish, Add</i>	4.88	
<i>For Work In Restricted Working Space, Add</i>	31.33	
22 07 19 00-0140 LF 30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	173.46	45.19
<i>For Single Layer Of Felt Finish, Add</i>	5.23	
<i>For Work In Restricted Working Space, Add</i>	37.11	
22 07 19 00-0141 LF 36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	213.82	57.45
<i>For Single Layer Of Felt Finish, Add</i>	5.94	
<i>For Work In Restricted Working Space, Add</i>	47.18	
22 07 19 00-0142 LF 42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	254.17	69.97
<i>For Single Layer Of Felt Finish, Add</i>	6.65	
<i>For Work In Restricted Working Space, Add</i>	57.26	

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0143 LF 44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	276.12	76.90
For Single Layer Of Felt Finish, Add	6.90	
For Work In Restricted Working Space, Add	63.11	
22 07 19 00-0144 LF 46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	295.33	82.77
For Single Layer Of Felt Finish, Add	7.18	
For Work In Restricted Working Space, Add	68.08	
<b>22 07 19 00-0145 4-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)</b>		
22 07 19 00-0146 LF 1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	24.08	6.69
For Single Layer Of Felt Finish, Add	0.63	
For Work In Restricted Working Space, Add	5.43	
22 07 19 00-0147 LF 3/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	24.30	6.69
For Single Layer Of Felt Finish, Add	0.65	
For Work In Restricted Working Space, Add	5.43	
22 07 19 00-0148 LF 1" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	25.06	6.69
For Single Layer Of Felt Finish, Add	0.70	
For Work In Restricted Working Space, Add	5.53	
22 07 19 00-0149 LF 1-1/4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	25.65	6.81
For Single Layer Of Felt Finish, Add	0.74	
For Work In Restricted Working Space, Add	5.59	
22 07 19 00-0150 LF 1-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	26.61	7.06
For Single Layer Of Felt Finish, Add	0.78	
For Work In Restricted Working Space, Add	5.77	
22 07 19 00-0151 LF 2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	27.52	7.31
For Single Layer Of Felt Finish, Add	0.81	
For Work In Restricted Working Space, Add	5.94	
22 07 19 00-0152 LF 2-1/2" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	28.46	7.31
For Single Layer Of Felt Finish, Add	0.88	
For Work In Restricted Working Space, Add	6.04	
22 07 19 00-0153 LF 3" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	29.73	7.69
For Single Layer Of Felt Finish, Add	0.93	
For Work In Restricted Working Space, Add	6.26	
22 07 19 00-0154 LF 4" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	32.34	8.06
For Single Layer Of Felt Finish, Add	1.08	
For Work In Restricted Working Space, Add	6.60	
22 07 19 00-0155 LF 6" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	36.93	9.17
For Single Layer Of Felt Finish, Add	1.25	
For Work In Restricted Working Space, Add	7.49	
22 07 19 00-0156 LF 8" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	46.44	9.92
For Single Layer Of Felt Finish, Add	1.95	
For Work In Restricted Working Space, Add	8.36	
22 07 19 00-0157 LF 10" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	54.92	11.78
For Single Layer Of Felt Finish, Add	2.39	
For Work In Restricted Working Space, Add	9.65	
22 07 19 00-0158 LF 12" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	64.20	14.62
For Single Layer Of Felt Finish, Add	2.54	
For Work In Restricted Working Space, Add	11.99	
22 07 19 00-0159 LF 14" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	71.81	15.99
For Single Layer Of Felt Finish, Add	2.96	
For Work In Restricted Working Space, Add	13.10	
22 07 19 00-0160 LF 16" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	86.84	20.45
For Single Layer Of Felt Finish, Add	3.26	
For Work In Restricted Working Space, Add	16.75	
22 07 19 00-0161 LF 18" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	92.52	21.44
For Single Layer Of Felt Finish, Add	3.57	
For Work In Restricted Working Space, Add	17.55	
22 07 19 00-0162 LF 20" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	104.46	24.54
For Single Layer Of Felt Finish, Add	3.94	
For Work In Restricted Working Space, Add	20.08	
22 07 19 00-0163 LF 24" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	125.02	29.62
For Single Layer Of Felt Finish, Add	4.63	
For Work In Restricted Working Space, Add	24.26	
22 07 19 00-0164 LF 26" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	144.30	34.95
For Single Layer Of Felt Finish, Add	5.14	
For Work In Restricted Working Space, Add	28.60	
22 07 19 00-0165 LF 28" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	165.15	41.15
For Single Layer Of Felt Finish, Add	5.56	
For Work In Restricted Working Space, Add	33.67	
22 07 19 00-0166 LF 30" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	189.58	48.58
For Single Layer Of Felt Finish, Add	5.95	
For Work In Restricted Working Space, Add	39.89	
22 07 19 00-0167 LF 36" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	233.39	61.76
For Single Layer Of Felt Finish, Add	6.75	
For Work In Restricted Working Space, Add	50.72	
22 07 19 00-0168 LF 42" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	277.21	75.22
For Single Layer Of Felt Finish, Add	7.56	
For Work In Restricted Working Space, Add	61.55	
22 07 19 00-0169 LF 44" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	300.96	82.65
For Single Layer Of Felt Finish, Add	7.86	
For Work In Restricted Working Space, Add	67.85	
22 07 19 00-0170 LF 46" Diameter Pipe, 4-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ) .....	321.76	88.97
For Single Layer Of Felt Finish, Add	8.17	
For Work In Restricted Working Space, Add	73.18	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 07 19 00-0171 5" Thick Fiberglass Pipe Insulation</b> <small>(22 07 19 00-0001)</small>		
22 07 19 00-0172 LF 1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.63	7.37
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.71</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>5.97</i>	
22 07 19 00-0173 LF 3/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	26.87	7.37
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.73</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>5.97</i>	
22 07 19 00-0174 LF 1" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	27.73	7.37
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.78</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>6.08</i>	
22 07 19 00-0175 LF 1-1/4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	28.39	7.50
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.83</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>6.15</i>	
22 07 19 00-0176 LF 1-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	29.46	7.77
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.87</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>6.34</i>	
22 07 19 00-0177 LF 2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	30.46	8.04
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.91</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>6.53</i>	
22 07 19 00-0178 LF 2-1/2" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	31.52	8.04
<i>For Single Layer Of Felt Finish, Add</i>	<i>0.98</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>6.64</i>	
22 07 19 00-0179 LF 3" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	32.94	8.45
<i>For Single Layer Of Felt Finish, Add</i>	<i>1.05</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>6.88</i>	
22 07 19 00-0180 LF 4" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	35.84	8.86
<i>For Single Layer Of Felt Finish, Add</i>	<i>1.22</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>7.27</i>	
22 07 19 00-0181 LF 6" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	40.93	10.09
<i>For Single Layer Of Felt Finish, Add</i>	<i>1.41</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>8.24</i>	
22 07 19 00-0182 LF 8" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	51.55	10.90
<i>For Single Layer Of Felt Finish, Add</i>	<i>2.19</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>9.20</i>	
22 07 19 00-0183 LF 10" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	60.99	12.95
<i>For Single Layer Of Felt Finish, Add</i>	<i>2.69</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>10.62</i>	
22 07 19 00-0184 LF 12" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	71.24	16.09
<i>For Single Layer Of Felt Finish, Add</i>	<i>2.86</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>13.19</i>	
22 07 19 00-0185 LF 14" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	79.70	17.58
<i>For Single Layer Of Felt Finish, Add</i>	<i>3.33</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>14.41</i>	
22 07 19 00-0186 LF 16" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	96.30	22.50
<i>For Single Layer Of Felt Finish, Add</i>	<i>3.66</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>18.42</i>	
22 07 19 00-0187 LF 18" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	102.63	23.58
<i>For Single Layer Of Felt Finish, Add</i>	<i>4.02</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>19.31</i>	
22 07 19 00-0188 LF 20" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	115.85	26.99
<i>For Single Layer Of Felt Finish, Add</i>	<i>4.43</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>22.09</i>	
22 07 19 00-0189 LF 24" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	138.63	32.58
<i>For Single Layer Of Felt Finish, Add</i>	<i>5.21</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>26.69</i>	
22 07 19 00-0190 LF 26" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	159.96	38.44
<i>For Single Layer Of Felt Finish, Add</i>	<i>5.79</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>31.46</i>	
22 07 19 00-0191 LF 28" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	183.01	45.26
<i>For Single Layer Of Felt Finish, Add</i>	<i>6.25</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>37.04</i>	
22 07 19 00-0192 LF 30" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	209.97	53.43
<i>For Single Layer Of Felt Finish, Add</i>	<i>6.69</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>43.88</i>	
22 07 19 00-0193 LF 36" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	258.34	67.94
<i>For Single Layer Of Felt Finish, Add</i>	<i>7.60</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>55.79</i>	
22 07 19 00-0194 LF 42" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	306.73	82.74
<i>For Single Layer Of Felt Finish, Add</i>	<i>8.51</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>67.71</i>	
22 07 19 00-0195 LF 44" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	332.91	90.92
<i>For Single Layer Of Felt Finish, Add</i>	<i>8.84</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>74.63</i>	
22 07 19 00-0196 LF 46" Diameter Pipe, 5" Thick, Fiberglass Insulation With All Service Jacket (ASJ).....	355.90	97.88
<i>For Single Layer Of Felt Finish, Add</i>	<i>9.19</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>80.51</i>	

**22 07 19 00-0197 Foamglas Pipe Insulation, Rigid, Closed Cell** (22 07 19)  
 Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.

**22 07 19 00-0198 1" Thick Foamglas Pipe Insulation** (22 07 19 00-0197)

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0199	LF		1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	19.69 5.11	5.63
22 07 19 00-0200	LF		3/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	20.36 5.11	5.63
22 07 19 00-0201	LF		1" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	21.28 5.18	5.71
22 07 19 00-0202	LF		1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	21.76 5.26	5.79
22 07 19 00-0203	LF		1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	22.46 5.33	5.87
22 07 19 00-0204	LF		2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	23.82 5.49	6.03
22 07 19 00-0205	LF		2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.53 5.71	6.28
22 07 19 00-0206	LF		3" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.34 5.86	6.44
22 07 19 00-0207	LF		4" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	31.30 6.30	6.93
22 07 19 00-0208	LF		6" Diameter Pipe, 1" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	39.26 7.11	7.82
<b>22 07 19 00-0209</b>			<b>1-1/2" Thick Foamglas Pipe Insulation</b> (22 07 19 00-0197)		
22 07 19 00-0210	LF		1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	22.97 5.49	6.24
22 07 19 00-0211	LF		3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	23.39 5.49	6.24
22 07 19 00-0212	LF		1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	24.06 5.56	6.32
22 07 19 00-0213	LF		1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	24.61 5.63	6.40
22 07 19 00-0214	LF		1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.12 5.71	6.49
22 07 19 00-0215	LF		2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.06 5.89	6.70
22 07 19 00-0216	LF		2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	30.30 6.12	6.95
22 07 19 00-0217	LF		3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	33.16 6.30	7.15
22 07 19 00-0218	LF		4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	37.30 6.71	7.62
22 07 19 00-0219	LF		6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	43.73 7.59	8.63
22 07 19 00-0220	LF		8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	48.89 8.47	9.63
22 07 19 00-0221	LF		10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	58.99 9.77	11.10
22 07 19 00-0222	LF		12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	70.34 12.14	13.80
22 07 19 00-0223	LF		14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	77.98 13.19	14.51
22 07 19 00-0224	LF		16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	85.97 14.74	16.21
22 07 19 00-0225	LF		18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	97.89 17.43	19.17
22 07 19 00-0226	LF		20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	109.25 19.30	21.22
22 07 19 00-0227	LF		24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation <i>For Work In Restricted Working Space, Add</i>	134.75 21.38	23.51
<b>22 07 19 00-0228</b>			<b>2" Thick Foamglas Pipe Insulation</b> (22 07 19 00-0197)		
22 07 19 00-0229	LF		1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	25.63 5.86	6.44
22 07 19 00-0230	LF		3/4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	26.29 5.86	6.44
22 07 19 00-0231	LF		1" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	27.17 5.93	6.51
22 07 19 00-0232	LF		1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	28.46 6.00	6.60
22 07 19 00-0233	LF		1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	29.76 6.08	6.68
22 07 19 00-0234	LF		2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	32.97 6.30	6.93
22 07 19 00-0235	LF		2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	34.52 6.52	7.18
22 07 19 00-0236	LF		3" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	36.89 6.74	7.42
22 07 19 00-0237	LF		4" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	41.25 7.11	7.83
22 07 19 00-0238	LF		6" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	49.08 8.08	8.89
22 07 19 00-0239	LF		8" Diameter Pipe, 2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	54.65 9.01	9.92





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0240 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation.....	66.17	11.42
<i>For Work In Restricted Working Space, Add</i>	10.39	
22 07 19 00-0241 LF 12" Diameter Pipe, 2" Thick Foamglas Insulation.....	81.98	14.20
<i>For Work In Restricted Working Space, Add</i>	12.91	
22 07 19 00-0242 LF 14" Diameter Pipe, 2" Thick Foamglas Insulation.....	87.76	15.50
<i>For Work In Restricted Working Space, Add</i>	14.09	
22 07 19 00-0243 LF 16" Diameter Pipe, 2" Thick Foamglas Insulation.....	104.56	19.81
<i>For Work In Restricted Working Space, Add</i>	18.02	
22 07 19 00-0244 LF 18" Diameter Pipe, 2" Thick Foamglas Insulation.....	113.56	20.81
<i>For Work In Restricted Working Space, Add</i>	18.91	
22 07 19 00-0245 LF 20" Diameter Pipe, 2" Thick Foamglas Insulation.....	126.05	23.78
<i>For Work In Restricted Working Space, Add</i>	21.62	
22 07 19 00-0246 LF 24" Diameter Pipe, 2" Thick Foamglas Insulation.....	157.52	28.73
<i>For Work In Restricted Working Space, Add</i>	26.12	
<b>22 07 19 00-0247 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>		
22 07 19 00-0248 LF 1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	30.66	6.98
<i>For Work In Restricted Working Space, Add</i>	6.35	
22 07 19 00-0249 LF 3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	31.77	6.97
<i>For Work In Restricted Working Space, Add</i>	6.34	
22 07 19 00-0250 LF 1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	33.26	7.09
<i>For Work In Restricted Working Space, Add</i>	6.45	
22 07 19 00-0251 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	34.55	7.14
<i>For Work In Restricted Working Space, Add</i>	6.50	
22 07 19 00-0252 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	35.85	7.20
<i>For Work In Restricted Working Space, Add</i>	6.55	
22 07 19 00-0253 LF 2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	38.30	7.50
<i>For Work In Restricted Working Space, Add</i>	6.82	
22 07 19 00-0254 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	40.64	7.76
<i>For Work In Restricted Working Space, Add</i>	7.05	
22 07 19 00-0255 LF 3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	43.94	8.03
<i>For Work In Restricted Working Space, Add</i>	7.30	
22 07 19 00-0256 LF 4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	48.96	8.46
<i>For Work In Restricted Working Space, Add</i>	7.70	
22 07 19 00-0257 LF 6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	58.28	9.63
<i>For Work In Restricted Working Space, Add</i>	8.75	
22 07 19 00-0258 LF 8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	64.94	10.73
<i>For Work In Restricted Working Space, Add</i>	9.76	
22 07 19 00-0259 LF 10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	74.16	12.37
<i>For Work In Restricted Working Space, Add</i>	11.25	
22 07 19 00-0260 LF 12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	92.33	15.38
<i>For Work In Restricted Working Space, Add</i>	13.98	
22 07 19 00-0261 LF 14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	96.67	16.78
<i>For Work In Restricted Working Space, Add</i>	15.26	
22 07 19 00-0262 LF 16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	114.84	21.45
<i>For Work In Restricted Working Space, Add</i>	19.50	
22 07 19 00-0263 LF 18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	124.46	22.53
<i>For Work In Restricted Working Space, Add</i>	20.48	
22 07 19 00-0264 LF 20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	143.02	25.74
<i>For Work In Restricted Working Space, Add</i>	23.41	
22 07 19 00-0265 LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation.....	178.54	31.12
<i>For Work In Restricted Working Space, Add</i>	28.28	
<b>22 07 19 00-0266 3" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>		
22 07 19 00-0267 LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation.....	36.55	7.43
<i>For Work In Restricted Working Space, Add</i>	6.76	
22 07 19 00-0268 LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation.....	37.22	7.43
<i>For Work In Restricted Working Space, Add</i>	6.76	
22 07 19 00-0269 LF 1" Diameter Pipe, 3" Thick Foamglas Insulation.....	38.25	7.55
<i>For Work In Restricted Working Space, Add</i>	6.86	
22 07 19 00-0270 LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation.....	39.08	7.60
<i>For Work In Restricted Working Space, Add</i>	6.91	
22 07 19 00-0271 LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation.....	39.97	7.67
<i>For Work In Restricted Working Space, Add</i>	6.97	
22 07 19 00-0272 LF 2" Diameter Pipe, 3" Thick Foamglas Insulation.....	42.82	7.98
<i>For Work In Restricted Working Space, Add</i>	7.25	
22 07 19 00-0273 LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation.....	45.55	8.25
<i>For Work In Restricted Working Space, Add</i>	7.50	
22 07 19 00-0274 LF 3" Diameter Pipe, 3" Thick Foamglas Insulation.....	51.31	8.54
<i>For Work In Restricted Working Space, Add</i>	7.76	
22 07 19 00-0275 LF 4" Diameter Pipe, 3" Thick Foamglas Insulation.....	58.19	9.00
<i>For Work In Restricted Working Space, Add</i>	8.19	
22 07 19 00-0276 LF 6" Diameter Pipe, 3" Thick Foamglas Insulation.....	63.91	10.24
<i>For Work In Restricted Working Space, Add</i>	9.31	
22 07 19 00-0277 LF 8" Diameter Pipe, 3" Thick Foamglas Insulation.....	72.11	11.41
<i>For Work In Restricted Working Space, Add</i>	10.38	
22 07 19 00-0278 LF 10" Diameter Pipe, 3" Thick Foamglas Insulation.....	85.81	13.16
<i>For Work In Restricted Working Space, Add</i>	11.97	
22 07 19 00-0279 LF 12" Diameter Pipe, 3" Thick Foamglas Insulation.....	100.19	16.36
<i>For Work In Restricted Working Space, Add</i>	14.87	
22 07 19 00-0280 LF 14" Diameter Pipe, 3" Thick Foamglas Insulation.....	107.44	17.85
<i>For Work In Restricted Working Space, Add</i>	16.23	

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0281	LF		16" Diameter Pipe, 3" Thick Foamglas Insulation .....	129.02	22.83
			<i>For Work In Restricted Working Space, Add</i>	20.75	
22 07 19 00-0282	LF		18" Diameter Pipe, 3" Thick Foamglas Insulation .....	137.89	23.96
			<i>For Work In Restricted Working Space, Add</i>	21.79	
22 07 19 00-0283	LF		20" Diameter Pipe, 3" Thick Foamglas Insulation .....	161.25	27.39
			<i>For Work In Restricted Working Space, Add</i>	24.90	
22 07 19 00-0284	LF		24" Diameter Pipe, 3" Thick Foamglas Insulation .....	196.94	33.10
			<i>For Work In Restricted Working Space, Add</i>	30.08	
<b>22 07 19 00-0285</b>			<b>3-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>		
22 07 19 00-0286	LF		1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	44.04	9.00
			<i>For Work In Restricted Working Space, Add</i>	8.19	
22 07 19 00-0287	LF		3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	44.88	9.00
			<i>For Work In Restricted Working Space, Add</i>	8.19	
22 07 19 00-0288	LF		1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	45.91	9.06
			<i>For Work In Restricted Working Space, Add</i>	8.24	
22 07 19 00-0289	LF		1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	46.92	9.12
			<i>For Work In Restricted Working Space, Add</i>	8.29	
22 07 19 00-0290	LF		1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	48.13	9.23
			<i>For Work In Restricted Working Space, Add</i>	8.40	
22 07 19 00-0291	LF		2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	52.66	9.56
			<i>For Work In Restricted Working Space, Add</i>	8.69	
22 07 19 00-0292	LF		2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	57.24	9.89
			<i>For Work In Restricted Working Space, Add</i>	8.99	
22 07 19 00-0293	LF		3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	60.37	10.24
			<i>For Work In Restricted Working Space, Add</i>	9.31	
22 07 19 00-0294	LF		4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	64.58	10.82
			<i>For Work In Restricted Working Space, Add</i>	9.84	
22 07 19 00-0295	LF		6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	74.27	12.29
			<i>For Work In Restricted Working Space, Add</i>	11.17	
22 07 19 00-0296	LF		8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	84.31	13.69
			<i>For Work In Restricted Working Space, Add</i>	12.44	
22 07 19 00-0297	LF		10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	100.56	15.80
			<i>For Work In Restricted Working Space, Add</i>	14.36	
22 07 19 00-0298	LF		12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	119.28	19.63
			<i>For Work In Restricted Working Space, Add</i>	17.84	
22 07 19 00-0299	LF		14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	124.88	21.43
			<i>For Work In Restricted Working Space, Add</i>	19.48	
22 07 19 00-0300	LF		16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	150.50	27.39
			<i>For Work In Restricted Working Space, Add</i>	24.90	
22 07 19 00-0301	LF		18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	164.79	28.77
			<i>For Work In Restricted Working Space, Add</i>	26.15	
22 07 19 00-0302	LF		20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	187.69	32.89
			<i>For Work In Restricted Working Space, Add</i>	29.90	
22 07 19 00-0303	LF		24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation .....	230.16	39.71
			<i>For Work In Restricted Working Space, Add</i>	36.11	
<b>22 07 19 00-0304</b>			<b>4" Thick Foamglas Pipe Insulation (22 07 19 00-0197)</b>		
22 07 19 00-0305	LF		1/2" Diameter Pipe, 4" Thick Foamglas Insulation .....	53.66	11.06
			<i>For Work In Restricted Working Space, Add</i>	10.06	
22 07 19 00-0306	LF		3/4" Diameter Pipe, 4" Thick Foamglas Insulation .....	54.75	11.06
			<i>For Work In Restricted Working Space, Add</i>	10.06	
22 07 19 00-0307	LF		1" Diameter Pipe, 4" Thick Foamglas Insulation .....	56.43	11.25
			<i>For Work In Restricted Working Space, Add</i>	10.23	
22 07 19 00-0308	LF		1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation .....	57.91	11.39
			<i>For Work In Restricted Working Space, Add</i>	10.35	
22 07 19 00-0309	LF		1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation .....	60.10	11.75
			<i>For Work In Restricted Working Space, Add</i>	10.68	
22 07 19 00-0310	LF		2" Diameter Pipe, 4" Thick Foamglas Insulation .....	64.65	12.11
			<i>For Work In Restricted Working Space, Add</i>	11.01	
22 07 19 00-0311	LF		2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation .....	68.66	12.30
			<i>For Work In Restricted Working Space, Add</i>	11.18	
22 07 19 00-0312	LF		3" Diameter Pipe, 4" Thick Foamglas Insulation .....	72.01	12.75
			<i>For Work In Restricted Working Space, Add</i>	11.59	
22 07 19 00-0313	LF		4" Diameter Pipe, 4" Thick Foamglas Insulation .....	78.82	14.22
			<i>For Work In Restricted Working Space, Add</i>	12.92	
22 07 19 00-0314	LF		6" Diameter Pipe, 4" Thick Foamglas Insulation .....	90.65	15.26
			<i>For Work In Restricted Working Space, Add</i>	13.88	
22 07 19 00-0315	LF		8" Diameter Pipe, 4" Thick Foamglas Insulation .....	102.05	16.56
			<i>For Work In Restricted Working Space, Add</i>	15.05	
22 07 19 00-0316	LF		10" Diameter Pipe, 4" Thick Foamglas Insulation .....	117.19	19.66
			<i>For Work In Restricted Working Space, Add</i>	17.88	
22 07 19 00-0317	LF		12" Diameter Pipe, 4" Thick Foamglas Insulation .....	137.57	24.43
			<i>For Work In Restricted Working Space, Add</i>	22.20	
22 07 19 00-0318	LF		14" Diameter Pipe, 4" Thick Foamglas Insulation .....	149.64	26.68
			<i>For Work In Restricted Working Space, Add</i>	24.26	
22 07 19 00-0319	LF		16" Diameter Pipe, 4" Thick Foamglas Insulation .....	178.73	34.11
			<i>For Work In Restricted Working Space, Add</i>	31.01	
22 07 19 00-0320	LF		18" Diameter Pipe, 4" Thick Foamglas Insulation .....	197.85	35.75
			<i>For Work In Restricted Working Space, Add</i>	32.50	
22 07 19 00-0321	LF		20" Diameter Pipe, 4" Thick Foamglas Insulation .....	222.16	40.91
			<i>For Work In Restricted Working Space, Add</i>	37.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0322 LF 24" Diameter Pipe, 4" Thick Foamglas Insulation..... <i>For Work In Restricted Working Space, Add</i>	280.67 44.93	49.44
<b>22 07 19 00-0323 Flexible Polyethylene Tubing Closed Cell Foam Insulation (22 07 19)</b> Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). No additional linear feet for fittings required.		
<b>22 07 19 00-0324 3/8" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)</b>		
22 07 19 00-0325 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.18 2.07	3.45
22 07 19 00-0326 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.19 2.07	3.45
22 07 19 00-0327 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.46 2.14	3.58
22 07 19 00-0328 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.75 2.22	3.69
22 07 19 00-0329 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.98 2.25	3.76
22 07 19 00-0330 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.24 2.29	3.82
22 07 19 00-0331 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.33 2.30	3.82
22 07 19 00-0332 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.58 2.31	3.82
22 07 19 00-0333 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.13 2.38	3.93
22 07 19 00-0334 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.38 2.42	4.00
<b>22 07 19 00-0335 1/2" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)</b>		
22 07 19 00-0336 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.92 2.25	3.76
22 07 19 00-0337 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.00 2.27	3.76
22 07 19 00-0338 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.11 2.29	3.82
22 07 19 00-0339 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.23 2.31	3.84
22 07 19 00-0340 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.57 2.36	3.93
22 07 19 00-0341 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.83 2.40	4.00
22 07 19 00-0342 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.13 2.44	4.06
22 07 19 00-0343 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.47 2.47	4.12
22 07 19 00-0344 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.10 2.54	4.24
22 07 19 00-0345 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.70 2.58	4.30
22 07 19 00-0346 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.26 2.61	4.36
22 07 19 00-0347 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.62 2.65	4.41
<b>22 07 19 00-0348 3/4" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)</b>		
22 07 19 00-0349 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.72 2.44	4.06
22 07 19 00-0350 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.83 2.47	4.12
22 07 19 00-0351 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.28 2.54	4.24
22 07 19 00-0352 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.50 2.58	4.30
22 07 19 00-0353 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.04 2.65	4.41
22 07 19 00-0354 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.54 2.69	4.48
22 07 19 00-0355 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.77 2.70	4.51
22 07 19 00-0356 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.63 2.72	4.54
22 07 19 00-0357 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.88 2.80	4.66
22 07 19 00-0358 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.00 2.83	4.72
22 07 19 00-0359 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.88 2.87	4.78
22 07 19 00-0360 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.27 2.91	4.84

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 07 19 00-0361</b>	<b>1" Wall Flexible Polyethylene Tubing Foam Insulation (22 07 19 00-0323)</b>		
22 07 19 00-0362	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	9.81	4.48
	For Work In Restricted Working Space, Add	2.69	
22 07 19 00-0363	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.02	4.54
	For Work In Restricted Working Space, Add	2.72	
22 07 19 00-0364	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.63	4.66
	For Work In Restricted Working Space, Add	2.80	
22 07 19 00-0365	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	10.83	4.72
	For Work In Restricted Working Space, Add	2.83	
22 07 19 00-0366	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	11.70	4.84
	For Work In Restricted Working Space, Add	2.91	
22 07 19 00-0367	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.18	4.96
	For Work In Restricted Working Space, Add	2.98	
22 07 19 00-0368	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	12.38	5.02
	For Work In Restricted Working Space, Add	3.01	
22 07 19 00-0369	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	13.17	5.08
	For Work In Restricted Working Space, Add	3.05	
22 07 19 00-0370	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	13.79	5.21
	For Work In Restricted Working Space, Add	3.12	
22 07 19 00-0371	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation.....	14.31	5.27
	For Work In Restricted Working Space, Add	3.16	
<b>22 07 19 00-0372</b>	<b>Flexible Elastomeric Tubing Closed Cell Foam Insulation (22 07 19)</b>		
	Note: No additional LF for fittings required.		
<b>22 07 19 00-0373</b>	<b>3/8" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)</b>		
22 07 19 00-0374	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.72	3.45
	For Work In Restricted Working Space, Add	2.07	
22 07 19 00-0375	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	7.85	3.45
	For Work In Restricted Working Space, Add	2.07	
22 07 19 00-0376	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.17	3.58
	For Work In Restricted Working Space, Add	2.14	
22 07 19 00-0377	LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.37	3.63
	For Work In Restricted Working Space, Add	2.18	
22 07 19 00-0378	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.58	3.69
	For Work In Restricted Working Space, Add	2.22	
22 07 19 00-0379	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	8.86	3.76
	For Work In Restricted Working Space, Add	2.25	
22 07 19 00-0380	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	9.10	3.82
	For Work In Restricted Working Space, Add	2.29	
22 07 19 00-0381	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	9.35	3.82
	For Work In Restricted Working Space, Add	2.30	
22 07 19 00-0382	LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	9.56	3.82
	For Work In Restricted Working Space, Add	2.31	
22 07 19 00-0383	LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.80	3.87
	For Work In Restricted Working Space, Add	2.33	
22 07 19 00-0384	LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	10.12	3.93
	For Work In Restricted Working Space, Add	2.36	
22 07 19 00-0385	LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	10.39	3.93
	For Work In Restricted Working Space, Add	2.38	
22 07 19 00-0386	LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	10.59	4.00
	For Work In Restricted Working Space, Add	2.40	
22 07 19 00-0387	LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	10.87	4.00
	For Work In Restricted Working Space, Add	2.42	
22 07 19 00-0388	LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	11.50	4.06
	For Work In Restricted Working Space, Add	2.44	
22 07 19 00-0389	LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	12.23	4.12
	For Work In Restricted Working Space, Add	2.47	
22 07 19 00-0390	LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	13.04	4.14
	For Work In Restricted Working Space, Add	2.49	
<b>22 07 19 00-0391</b>	<b>1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)</b>		
22 07 19 00-0392	LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.75	3.76
	For Work In Restricted Working Space, Add	2.25	
22 07 19 00-0393	LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	8.88	3.76
	For Work In Restricted Working Space, Add	2.27	
22 07 19 00-0394	LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.02	3.82
	For Work In Restricted Working Space, Add	2.29	
22 07 19 00-0395	LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.22	3.82
	For Work In Restricted Working Space, Add	2.30	
22 07 19 00-0396	LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation.....	9.38	3.82
	For Work In Restricted Working Space, Add	2.31	
22 07 19 00-0397	LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	9.77	3.93
	For Work In Restricted Working Space, Add	2.36	
22 07 19 00-0398	LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	10.14	4.00
	For Work In Restricted Working Space, Add	2.40	
22 07 19 00-0399	LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	10.47	4.06
	For Work In Restricted Working Space, Add	2.44	
22 07 19 00-0400	LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation .....	10.80	4.09
	For Work In Restricted Working Space, Add	2.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0401 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	11.08 2.47	4.12
22 07 19 00-0402 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.13 2.51	4.18
22 07 19 00-0403 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.75 2.54	4.24
22 07 19 00-0404 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	13.23 2.56	4.28
22 07 19 00-0405 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	13.63 2.58	4.30
22 07 19 00-0406 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	13.93 2.60	4.33
22 07 19 00-0407 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.17 2.61	4.36
22 07 19 00-0408 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.37 2.65	4.41
22 07 19 00-0409 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.66 2.67	4.45
22 07 19 00-0410 LF 5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	16.83 2.69	4.48
22 07 19 00-0411 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	18.22 2.76	4.60
22 07 19 00-0412 LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	19.77 2.83	4.72
<b>22 07 19 00-0413 3/4" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)</b>		
22 07 19 00-0414 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.11 2.44	4.06
22 07 19 00-0415 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.39 2.47	4.12
22 07 19 00-0416 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.83 2.54	4.24
22 07 19 00-0417 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.09 2.56	4.28
22 07 19 00-0418 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.21 2.58	4.30
22 07 19 00-0419 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	11.85 2.65	4.41
22 07 19 00-0420 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.36 2.69	4.48
22 07 19 00-0421 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.88 2.72	4.54
22 07 19 00-0422 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	13.02 2.72	4.54
22 07 19 00-0423 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	13.23 2.75	4.57
22 07 19 00-0424 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	13.84 2.76	4.60
22 07 19 00-0425 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.17 2.80	4.66
22 07 19 00-0426 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.88 2.81	4.69
22 07 19 00-0427 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	15.36 2.83	4.72
22 07 19 00-0428 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	16.11 2.86	4.76
22 07 19 00-0429 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	16.39 2.87	4.78
22 07 19 00-0430 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	17.51 2.91	4.84
22 07 19 00-0431 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	18.40 2.92	4.87
22 07 19 00-0432 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	19.90 2.94	4.90
22 07 19 00-0433 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	21.49 2.98	4.96
22 07 19 00-0434 LF 8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	23.40 3.05	5.08
<b>22 07 19 00-0435 1" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0372)</b>		
22 07 19 00-0436 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.87 2.69	4.47
22 07 19 00-0437 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.24 2.72	4.54
22 07 19 00-0438 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.69 2.80	4.66
22 07 19 00-0439 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.09 2.81	4.69
22 07 19 00-0440 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.44 2.83	4.72
22 07 19 00-0441 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	14.04 2.91	4.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0442 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.97 2.98	4.96
22 07 19 00-0443 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.44 3.01	4.96
22 07 19 00-0444 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.08 3.03	5.02
22 07 19 00-0445 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.31 3.05	5.08
22 07 19 00-0446 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.69 3.09	5.15
22 07 19 00-0447 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.76 3.12	5.21
22 07 19 00-0448 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.13 3.14	5.24
22 07 19 00-0449 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.53 3.16	5.27
22 07 19 00-0450 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.24 3.18	5.31
22 07 19 00-0451 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.58 3.20	5.33
22 07 19 00-0452 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.19 3.27	5.46
22 07 19 00-0453 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	25.95 3.31	5.51
22 07 19 00-0454 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.56 3.34	5.57
22 07 19 00-0455 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.32 3.41	5.70
<b>22 07 19 00-0456 1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation</b> <small>(22 07 19 00-0372)</small>		
22 07 19 00-0457 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.32 3.01	5.01
22 07 19 00-0458 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	18.79 3.08	5.11
22 07 19 00-0459 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.19 3.10	5.15
22 07 19 00-0460 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.59 3.11	5.19
22 07 19 00-0461 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.15 3.18	5.32
22 07 19 00-0462 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	21.06 3.30	5.51
22 07 19 00-0463 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.34 3.33	5.43
22 07 19 00-0464 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.46 3.37	5.56
22 07 19 00-0465 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.14 3.41	5.70
22 07 19 00-0466 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	26.30 3.45	5.77
22 07 19 00-0467 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.34 3.49	5.84
22 07 19 00-0468 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	29.29 3.51	5.86
22 07 19 00-0469 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	30.25 3.53	5.87
22 07 19 00-0470 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.36 3.54	5.90
22 07 19 00-0471 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	32.07 3.56	5.93
22 07 19 00-0472 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	35.87 3.68	6.15
22 07 19 00-0473 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	37.90 3.74	6.24
22 07 19 00-0474 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	42.85 3.80	6.33
22 07 19 00-0475 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	47.76 3.91	6.52
<b>22 07 19 00-0476 2" Wall Flexible Elastomeric Tubing Foam Insulation</b> <small>(22 07 19 00-0372)</small>		
22 07 19 00-0477 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	26.68 3.32	5.54
22 07 19 00-0478 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	27.75 3.39	5.62
22 07 19 00-0479 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	29.60 3.40	5.66
22 07 19 00-0480 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	30.22 3.41	5.71
22 07 19 00-0481 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.78 3.49	5.82
22 07 19 00-0482 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	33.69 3.66	6.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0483 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	34.81 3.68	5.95
22 07 19 00-0484 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	36.81 3.75	6.16
22 07 19 00-0485 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	38.74 3.82	6.36
22 07 19 00-0486 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	40.03 3.86	6.44
22 07 19 00-0487 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	42.69 3.89	6.52
22 07 19 00-0488 LF 2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	43.01 3.92	6.54
22 07 19 00-0489 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	45.49 3.94	6.55
22 07 19 00-0490 LF 3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	47.21 3.95	6.57
22 07 19 00-0491 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	49.06 3.96	6.60
22 07 19 00-0492 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	55.16 4.14	6.91
22 07 19 00-0493 LF 4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	58.71 4.23	7.05
22 07 19 00-0494 LF 5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	59.75 4.32	7.19
22 07 19 00-0495 LF 6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	67.12 4.49	7.49
<b>22 07 19 00-0496 Flexible Polyolefin Tubing Closed Cell Foam Insulation</b> <small>(22 07 19)</small> Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. No additional LF for fittings required.		
<b>22 07 19 00-0497 3/8" Wall Flexible Polyolefin Tubing Foam Insulation</b> <small>(22 07 19 00-0496)</small>		
22 07 19 00-0498 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.59 2.07	3.45
22 07 19 00-0499 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.70 2.07	3.45
22 07 19 00-0500 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.99 2.14	3.58
22 07 19 00-0501 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.37 2.22	3.69
22 07 19 00-0502 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.61 2.25	3.76
22 07 19 00-0503 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	9.06 2.29	3.82
22 07 19 00-0504 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	9.40 2.30	3.82
22 07 19 00-0505 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.65 2.31	3.93
22 07 19 00-0506 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	10.76 2.38	3.93
22 07 19 00-0507 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.76 2.42	4.00
22 07 19 00-0508 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.37 2.47	4.12
<b>22 07 19 00-0509 1/2" Wall Flexible Polyolefin Tubing Foam Insulation</b> <small>(22 07 19 00-0496)</small>		
22 07 19 00-0510 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.58 2.25	3.76
22 07 19 00-0511 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.67 2.27	3.76
22 07 19 00-0512 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.87 2.29	3.82
22 07 19 00-0513 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.14 2.31	3.82
22 07 19 00-0514 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.45 2.36	3.93
22 07 19 00-0515 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	9.94 2.40	4.00
22 07 19 00-0516 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	10.48 2.44	4.06
22 07 19 00-0517 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.00 2.47	4.12
22 07 19 00-0518 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation ..... <i>For Work In Restricted Working Space, Add</i>	12.18 2.54	4.24
22 07 19 00-0519 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.26 2.58	4.30
22 07 19 00-0520 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.29 2.65	4.41
<b>22 07 19 00-0521 3/4" Wall Flexible Polyolefin Tubing Foam Insulation</b> <small>(22 07 19 00-0496)</small>		

**22 Plumbing**  
**22 07 Plumbing Insulation**  
 22 07 19 Plumbing Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0522 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	9.73	4.06
<i>For Work In Restricted Working Space, Add</i>	<i>2.44</i>	
22 07 19 00-0523 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.09	4.12
<i>For Work In Restricted Working Space, Add</i>	<i>2.47</i>	
22 07 19 00-0524 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	10.52	4.24
<i>For Work In Restricted Working Space, Add</i>	<i>2.54</i>	
22 07 19 00-0525 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.24	4.30
<i>For Work In Restricted Working Space, Add</i>	<i>2.58</i>	
22 07 19 00-0526 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.89	4.41
<i>For Work In Restricted Working Space, Add</i>	<i>2.65</i>	
22 07 19 00-0527 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.07	4.48
<i>For Work In Restricted Working Space, Add</i>	<i>2.69</i>	
22 07 19 00-0528 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.86	4.48
<i>For Work In Restricted Working Space, Add</i>	<i>2.70</i>	
22 07 19 00-0529 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.75	4.54
<i>For Work In Restricted Working Space, Add</i>	<i>2.72</i>	
22 07 19 00-0530 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	16.43	4.66
<i>For Work In Restricted Working Space, Add</i>	<i>2.80</i>	
22 07 19 00-0531 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	18.00	4.72
<i>For Work In Restricted Working Space, Add</i>	<i>2.83</i>	
22 07 19 00-0532 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	20.99	4.84
<i>For Work In Restricted Working Space, Add</i>	<i>2.91</i>	
<b>22 07 19 00-0533 1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0496)</b>		
22 07 19 00-0534 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.75	4.48
<i>For Work In Restricted Working Space, Add</i>	<i>2.69</i>	
22 07 19 00-0535 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	11.94	4.54
<i>For Work In Restricted Working Space, Add</i>	<i>2.72</i>	
22 07 19 00-0536 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	12.37	4.66
<i>For Work In Restricted Working Space, Add</i>	<i>2.80</i>	
22 07 19 00-0537 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	13.44	4.72
<i>For Work In Restricted Working Space, Add</i>	<i>2.83</i>	
22 07 19 00-0538 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	14.29	4.84
<i>For Work In Restricted Working Space, Add</i>	<i>2.91</i>	
22 07 19 00-0539 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	15.15	4.96
<i>For Work In Restricted Working Space, Add</i>	<i>2.98</i>	
22 07 19 00-0540 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	16.02	4.96
<i>For Work In Restricted Working Space, Add</i>	<i>3.01</i>	
22 07 19 00-0541 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	18.01	5.08
<i>For Work In Restricted Working Space, Add</i>	<i>3.05</i>	
22 07 19 00-0542 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	20.64	5.21
<i>For Work In Restricted Working Space, Add</i>	<i>3.12</i>	
22 07 19 00-0543 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation.....	22.53	5.27
<i>For Work In Restricted Working Space, Add</i>	<i>3.16</i>	
<b>22 07 19 00-0544 Flexible Elastomeric Unicellular Insulation (22 07 19)</b>		
<i>Note: For refrigeration piping.</i>		
22 07 19 00-0545 LF 1/2" Pipe, (5/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover.....	8.08	3.82
<i>For Work In Restricted Working Space, Add</i>	<i>2.29</i>	
<i>For 3/8" Thick Covering, Deduct</i>	<i>-0.64</i>	
<i>For 3/4" Thick Covering, Add</i>	<i>1.09</i>	
<i>For 1" Thick Covering, Add</i>	<i>2.12</i>	
22 07 19 00-0546 LF 3/4" Pipe, (7/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover.....	8.20	3.82
<i>For Work In Restricted Working Space, Add</i>	<i>2.31</i>	
<i>For 3/8" Thick Covering, Deduct</i>	<i>-0.67</i>	
<i>For 3/4" Thick Covering, Add</i>	<i>1.15</i>	
<i>For 1" Thick Covering, Add</i>	<i>2.23</i>	
22 07 19 00-0547 LF 1" Pipe, (1-1/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover.....	8.44	3.93
<i>For Work In Restricted Working Space, Add</i>	<i>2.36</i>	
<i>For 3/8" Thick Covering, Deduct</i>	<i>-0.69</i>	
<i>For 3/4" Thick Covering, Add</i>	<i>1.21</i>	
<i>For 1" Thick Covering, Add</i>	<i>2.33</i>	
22 07 19 00-0548 LF 1-1/4" Pipe, (1-3/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover.....	8.69	4.00
<i>For Work In Restricted Working Space, Add</i>	<i>2.40</i>	
<i>For 3/8" Thick Covering, Deduct</i>	<i>-0.73</i>	
<i>For 3/4" Thick Covering, Add</i>	<i>1.32</i>	
<i>For 1" Thick Covering, Add</i>	<i>2.54</i>	
22 07 19 00-0549 LF 1-1/2" Pipe, (1-5/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover.....	8.95	4.06
<i>For Work In Restricted Working Space, Add</i>	<i>2.44</i>	
<i>For 3/8" Thick Covering, Deduct</i>	<i>-0.78</i>	
<i>For 3/4" Thick Covering, Add</i>	<i>1.43</i>	
<i>For 1" Thick Covering, Add</i>	<i>2.74</i>	
22 07 19 00-0550 LF 2" Pipe, (2-1/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover.....	9.21	4.12
<i>For Work In Restricted Working Space, Add</i>	<i>2.47</i>	
<i>For 3/8" Thick Covering, Deduct</i>	<i>-0.82</i>	
<i>For 3/4" Thick Covering, Add</i>	<i>1.56</i>	
<i>For 1" Thick Covering, Add</i>	<i>2.97</i>	
22 07 19 00-0551 LF 2-1/2" Pipe, (2-5/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover.....	9.79	4.24
<i>For Work In Restricted Working Space, Add</i>	<i>2.54</i>	
<i>For 3/8" Thick Covering, Deduct</i>	<i>-0.92</i>	
<i>For 3/4" Thick Covering, Add</i>	<i>1.84</i>	
<i>For 1" Thick Covering, Add</i>	<i>3.48</i>	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0552 LF 3" Pipe, (3-1/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For 3/8" Thick Covering, Deduct</i> <i>For 3/4" Thick Covering, Add</i> <i>For 1" Thick Covering, Add</i>	10.25 2.58 -1.01 2.10 3.95	4.30
22 07 19 00-0553 LF 3-1/2" Pipe, (3-5/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For 3/8" Thick Covering, Deduct</i> <i>For 3/4" Thick Covering, Add</i> <i>For 1" Thick Covering, Add</i>	10.67 2.61 -1.10 2.34 4.39	4.36
22 07 19 00-0554 LF 4" Pipe, (4-1/8" Outside Diameter Pipe), 1/2" Thick Insulation, Flexible Elastomeric Unicellular Cover ..... <i>For Work In Restricted Working Space, Add</i> <i>For 3/8" Thick Covering, Deduct</i> <i>For 3/4" Thick Covering, Add</i> <i>For 1" Thick Covering, Add</i>	11.12 2.65 -1.19 2.59 4.85	4.41
<b>22 07 19 00-0555 Insulation Foam Rubber</b> <small>(22 07 19)</small>		
<b>22 07 19 00-0556 Covering 4x6 Sheet</b> <small>(22 07 19 00-0555)</small>		
22 07 19 00-0557 SF 1" Thick Foam Rubber Sheet Insulation .....	20.32	8.19
<b>22 07 19 00-0558 Insulation Protective Jacketing</b> <small>(22 07 19)</small> Note: Jacketing only and must be added to insulation prices.		
<b>22 07 19 00-0559 Aluminum Insulation Protective Jacketing With Bands</b> <small>(22 07 19 00-0558)</small>		
<b>22 07 19 00-0560 Aluminum Roll, Insulation Protective Jacketing With Bands</b> <small>(22 07 19 00-0559)</small>		
22 07 19 00-0561 SF 0.006" Aluminum Insulation Jacket With Bands.....	17.01	7.38
22 07 19 00-0562 SF 0.010" Aluminum Insulation Jacket With Bands.....	17.19	7.38
22 07 19 00-0563 SF 0.016" Aluminum Insulation Jacket With Bands.....	17.37	7.38
22 07 19 00-0564 SF 0.020" Aluminum Insulation Jacket With Bands.....	17.52	7.38
22 07 19 00-0565 SF 0.024" Aluminum Insulation Jacket With Bands.....	17.67	7.38
<b>22 07 19 00-0566 16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands</b> <small>(22 07 19 00-0559)</small>		
22 07 19 00-0567 LF 1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.66 0.00 0.01	2.10
22 07 19 00-0568 LF 3/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.94 0.00 0.01	2.14
22 07 19 00-0569 LF 1" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.23 0.00 0.01	2.20
22 07 19 00-0570 LF 1-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.52 0.01 0.01	2.25
22 07 19 00-0571 LF 1-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.74 0.01 0.02	2.28
22 07 19 00-0572 LF 1-3/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.95 0.01 0.02	2.32
22 07 19 00-0573 LF 2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.23 0.01 0.02	2.36
22 07 19 00-0574 LF 2-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.52 0.01 0.02	2.41
22 07 19 00-0575 LF 2-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.82 0.01 0.02	2.46
22 07 19 00-0576 LF 2-3/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.07 0.01 0.03	2.50
22 07 19 00-0577 LF 3" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.38 0.01 0.03	2.56
22 07 19 00-0578 LF 3-1/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.69 0.01 0.03	2.62
22 07 19 00-0579 LF 3-1/2" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.02 0.01 0.03	2.68
22 07 19 00-0580 LF 3-3/4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.29 0.01 0.03	2.73
22 07 19 00-0581 LF 4" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.64 0.01 0.04	2.79

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0582	LF		4-1/4" ID, 0.016" Aluminum Insulation Jacketing .....	12.99	2.86
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0583	LF		4-1/2" ID, 0.016" Aluminum Insulation Jacketing .....	13.39	2.93
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0584	LF		4-3/4" ID, 0.016" Aluminum Insulation Jacketing .....	13.70	2.99
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0585	LF		5" ID, 0.016" Aluminum Insulation Jacketing.....	14.10	3.07
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0586	LF		5-1/4" ID, 0.016" Aluminum Insulation Jacketing .....	14.52	3.16
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0587	LF		5-1/2" ID, 0.016" Aluminum Insulation Jacketing .....	14.87	3.23
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0588	LF		5-3/4" ID, 0.016" Aluminum Insulation Jacketing .....	15.33	3.32
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0589	LF		6" ID, 0.016" Aluminum Insulation Jacketing.....	15.81	3.42
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0590	LF		6-1/4" ID, 0.016" Aluminum Insulation Jacketing .....	16.10	3.47
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0591	LF		6-1/2" ID, 0.016" Aluminum Insulation Jacketing .....	16.39	3.52
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0592	LF		7" ID, 0.016" Aluminum Insulation Jacketing.....	16.88	3.61
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0593	LF		7-1/4" ID, 0.016" Aluminum Insulation Jacketing .....	17.31	3.69
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0594	LF		7-1/2" ID, 0.016" Aluminum Insulation Jacketing .....	17.62	3.75
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0595	LF		8" ID, 0.016" Aluminum Insulation Jacketing.....	18.05	3.82
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0596	LF		8-1/2" ID, 0.016" Aluminum Insulation Jacketing .....	18.46	3.88
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0597	LF		9" ID, 0.016" Aluminum Insulation Jacketing.....	19.03	3.98
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0598	LF		9-1/2" ID, 0.016" Aluminum Insulation Jacketing .....	19.49	4.05
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0599	LF		10" ID, 0.016" Aluminum Insulation Jacketing.....	19.94	4.12
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0600	LF		10-1/2" ID, 0.016" Aluminum Insulation Jacketing .....	20.41	4.19
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0601	LF		11" ID, 0.016" Aluminum Insulation Jacketing.....	21.04	4.31
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.10	
22 07 19 00-0602	LF		11-1/2" ID, 0.016" Aluminum Insulation Jacketing .....	21.54	4.39
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.10	
22 07 19 00-0603	LF		12" ID, 0.016" Aluminum Insulation Jacketing.....	22.06	4.48
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.10	
22 07 19 00-0604	LF		12-1/2" ID, 0.016" Aluminum Insulation Jacketing .....	22.76	4.61
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0605	LF		13" ID, 0.016" Aluminum Insulation Jacketing.....	23.11	4.66
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0606	LF		14" ID, 0.016" Aluminum Insulation Jacketing.....	23.64	4.70
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.12	
22 07 19 00-0607	LF		15" ID, 0.016" Aluminum Insulation Jacketing.....	24.36	4.80
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.13	
22 07 19 00-0608	LF		16" ID, 0.016" Aluminum Insulation Jacketing.....	24.90	4.85
			<i>For Stucco Embossed, Add</i>	0.05	
			<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0609	LF		17" ID, 0.016" Aluminum Insulation Jacketing.....	25.66	4.95
			<i>For Stucco Embossed, Add</i>	0.06	
			<i>For Corrugated, Add</i>	0.15	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0610 LF 18" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.10 0.06 0.15	5.01
22 07 19 00-0611 LF 19" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.00 0.07 0.16	5.12
22 07 19 00-0612 LF 20" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.57 0.07 0.17	5.18
22 07 19 00-0613 LF 21" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.37 0.07 0.18	5.31
22 07 19 00-0614 LF 22" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.95 0.08 0.19	5.37
22 07 19 00-0615 LF 23" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.80 0.08 0.20	5.49
22 07 19 00-0616 LF 24" ID, 0.016" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.41 0.08 0.20	5.56
<b>22 07 19 00-0617 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0559)</small></b>		
22 07 19 00-0618 LF 1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.58 0.00 0.01	2.30
22 07 19 00-0619 LF 3/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.89 0.00 0.01	2.36
22 07 19 00-0620 LF 1" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.24 0.01 0.01	2.41
22 07 19 00-0621 LF 1-1/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.57 0.01 0.02	2.47
22 07 19 00-0622 LF 1-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.83 0.01 0.02	2.51
22 07 19 00-0623 LF 1-3/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.08 0.01 0.02	2.55
22 07 19 00-0624 LF 2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.40 0.01 0.02	2.60
22 07 19 00-0625 LF 2-1/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.71 0.01 0.03	2.65
22 07 19 00-0626 LF 2-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.06 0.01 0.03	2.71
22 07 19 00-0627 LF 2-3/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.34 0.01 0.03	2.75
22 07 19 00-0628 LF 3" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.70 0.01 0.04	2.81
22 07 19 00-0629 LF 3-1/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.06 0.02 0.04	2.88
22 07 19 00-0630 LF 3-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.45 0.02 0.04	2.94
22 07 19 00-0631 LF 3-3/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.76 0.02 0.04	3.00
22 07 19 00-0632 LF 4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.16 0.02 0.05	3.07
22 07 19 00-0633 LF 4-1/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.56 0.02 0.05	3.16
22 07 19 00-0634 LF 4-1/2" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.00 0.02 0.05	3.24
22 07 19 00-0635 LF 4-3/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.36 0.02 0.05	3.30
22 07 19 00-0636 LF 5" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.81 0.02 0.06	3.39
22 07 19 00-0637 LF 5-1/4" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.30 0.02 0.06	3.48

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0638 LF 5-1/2" ID, 0.020" Aluminum Insulation Jacketing .....	16.69	3.55
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.06	
22 07 19 00-0639 LF 5-3/4" ID, 0.020" Aluminum Insulation Jacketing .....	17.22	3.65
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0640 LF 6" ID, 0.020" Aluminum Insulation Jacketing.....	17.75	3.76
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0641 LF 6-1/4" ID, 0.020" Aluminum Insulation Jacketing .....	18.08	3.82
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0642 LF 6-1/2" ID, 0.020" Aluminum Insulation Jacketing .....	18.42	3.87
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.07	
22 07 19 00-0643 LF 7" ID, 0.020" Aluminum Insulation Jacketing.....	18.99	3.96
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0644 LF 7-1/4" ID, 0.020" Aluminum Insulation Jacketing .....	19.47	4.06
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0645 LF 7-1/2" ID, 0.020" Aluminum Insulation Jacketing .....	19.84	4.12
For Stucco Embossed, Add	0.03	
For Corrugated, Add	0.08	
22 07 19 00-0646 LF 8" ID, 0.020" Aluminum Insulation Jacketing.....	20.33	4.20
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0647 LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing .....	20.81	4.26
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.09	
22 07 19 00-0648 LF 9" ID, 0.020" Aluminum Insulation Jacketing.....	21.47	4.37
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.10	
22 07 19 00-0649 LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing .....	21.99	4.45
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0650 LF 10" ID, 0.020" Aluminum Insulation Jacketing.....	22.53	4.53
For Stucco Embossed, Add	0.04	
For Corrugated, Add	0.11	
22 07 19 00-0651 LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing .....	23.07	4.61
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0652 LF 11" ID, 0.0106 Aluminum Insulation Jacketing.....	23.79	4.74
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.12	
22 07 19 00-0653 LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing .....	24.37	4.83
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0654 LF 12" ID, 0.020" Aluminum Insulation Jacketing.....	24.96	4.92
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.13	
22 07 19 00-0655 LF 12-1/2" ID, 0.020" Aluminum Insulation Jacketing .....	25.77	5.07
For Stucco Embossed, Add	0.05	
For Corrugated, Add	0.14	
22 07 19 00-0656 LF 13" ID, 0.020" Aluminum Insulation Jacketing.....	26.19	5.12
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.14	
22 07 19 00-0657 LF 14" ID, 0.020" Aluminum Insulation Jacketing.....	26.83	5.17
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.15	
22 07 19 00-0658 LF 15" ID, 0.020" Aluminum Insulation Jacketing.....	27.67	5.29
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.16	
22 07 19 00-0659 LF 16" ID, 0.020" Aluminum Insulation Jacketing.....	28.34	5.34
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.17	
22 07 19 00-0660 LF 17" ID, 0.020" Aluminum Insulation Jacketing.....	29.21	5.46
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.19	
22 07 19 00-0661 LF 18" ID, 0.020" Aluminum Insulation Jacketing.....	29.74	5.52
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.19	
22 07 19 00-0662 LF 19" ID, 0.020" Aluminum Insulation Jacketing.....	30.80	5.64
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.21	
22 07 19 00-0663 LF 20" ID, 0.020" Aluminum Insulation Jacketing.....	31.49	5.70
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.22	
22 07 19 00-0664 LF 21" ID, 0.020" Aluminum Insulation Jacketing.....	32.43	5.83
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.23	
22 07 19 00-0665 LF 22" ID, 0.020" Aluminum Insulation Jacketing.....	33.12	5.90
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.24	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0666 LF 23" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.11 0.10 0.25	6.04
22 07 19 00-0667 LF 24" ID, 0.020" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.84 0.10 0.26	6.11
<b>22 07 19 00-0668 24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0559)</b>		
22 07 19 00-0669 LF 1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.49 0.00 0.01	2.51
22 07 19 00-0670 LF 3/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.85 0.01 0.01	2.57
22 07 19 00-0671 LF 1" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.22 0.01 0.02	2.63
22 07 19 00-0672 LF 1-1/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.60 0.01 0.02	2.70
22 07 19 00-0673 LF 1-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.89 0.01 0.02	2.74
22 07 19 00-0674 LF 1-3/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.18 0.01 0.03	2.78
22 07 19 00-0675 LF 2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.53 0.01 0.03	2.83
22 07 19 00-0676 LF 2-1/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.90 0.01 0.03	2.89
22 07 19 00-0677 LF 2-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.29 0.01 0.04	2.95
22 07 19 00-0678 LF 2-3/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.61 0.02 0.04	3.00
22 07 19 00-0679 LF 3" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.02 0.02 0.04	3.07
22 07 19 00-0680 LF 3-1/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.42 0.02 0.05	3.15
22 07 19 00-0681 LF 3-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.84 0.02 0.05	3.22
22 07 19 00-0682 LF 3-3/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.19 0.02 0.05	3.28
22 07 19 00-0683 LF 4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.63 0.02 0.06	3.36
22 07 19 00-0684 LF 4-1/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.10 0.02 0.06	3.44
22 07 19 00-0685 LF 4-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.59 0.02 0.06	3.53
22 07 19 00-0686 LF 4-3/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.99 0.03 0.07	3.60
22 07 19 00-0687 LF 5" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.50 0.03 0.07	3.69
22 07 19 00-0688 LF 5-1/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.03 0.03 0.07	3.79
22 07 19 00-0689 LF 5-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.46 0.03 0.07	3.87
22 07 19 00-0690 LF 5-3/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.07 0.03 0.08	3.98
22 07 19 00-0691 LF 6" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.66 0.03 0.08	4.10
22 07 19 00-0692 LF 6-1/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.03 0.03 0.08	4.16
22 07 19 00-0693 LF 6-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.41 0.04 0.09	4.22

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0694 LF 7" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.04 0.04 0.09	4.32
22 07 19 00-0695 LF 7-1/4" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.58 0.04 0.10	4.43
22 07 19 00-0696 LF 7-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.00 0.04 0.10	4.50
22 07 19 00-0697 LF 8" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.56 0.04 0.11	4.57
22 07 19 00-0698 LF 8-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.11 0.05 0.11	4.65
22 07 19 00-0699 LF 9" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.84 0.05 0.12	4.77
22 07 19 00-0700 LF 9-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.44 0.05 0.13	4.85
22 07 19 00-0701 LF 10" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.04 0.05 0.13	4.94
22 07 19 00-0702 LF 10-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.66 0.06 0.14	5.03
22 07 19 00-0703 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.47 0.06 0.14	5.17
22 07 19 00-0704 LF 11-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.13 0.06 0.15	5.27
22 07 19 00-0705 LF 12" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.79 0.06 0.16	5.38
22 07 19 00-0706 LF 12-1/2" ID, 0.024" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.69 0.07 0.16	5.54
22 07 19 00-0707 LF 13" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.17 0.07 0.17	5.59
22 07 19 00-0708 LF 14" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.92 0.07 0.18	5.65
22 07 19 00-0709 LF 15" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.89 0.08 0.20	5.77
22 07 19 00-0710 LF 16" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.65 0.08 0.21	5.83
22 07 19 00-0711 LF 17" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.65 0.09 0.22	5.95
22 07 19 00-0712 LF 18" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.25 0.09 0.23	6.02
22 07 19 00-0713 LF 19" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.48 0.10 0.25	6.15
22 07 19 00-0714 LF 20" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.27 0.10 0.26	6.22
22 07 19 00-0715 LF 21" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.34 0.11 0.27	6.36
22 07 19 00-0716 LF 22" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	37.14 0.11 0.29	6.43
22 07 19 00-0717 LF 23" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.28 0.12 0.30	6.59
22 07 19 00-0718 LF 24" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.10 0.12 0.31	6.67
<b>22 07 19 00-0719 32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands</b> <small>(22 07 19 00-0559)</small>		
22 07 19 00-0720 LF 1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.72 0.01 0.01	2.78
22 07 19 00-0721 LF 3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.15 0.01 0.02	2.85



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0722 LF 1" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.60 0.01 0.02	2.92
22 07 19 00-0723 LF 1-1/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.05 0.01 0.03	2.99
22 07 19 00-0724 LF 1-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.40 0.01 0.03	3.03
22 07 19 00-0725 LF 1-3/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.75 0.01 0.04	3.08
22 07 19 00-0726 LF 2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.17 0.02 0.04	3.15
22 07 19 00-0727 LF 2-1/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.60 0.02 0.04	3.22
22 07 19 00-0728 LF 2-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.07 0.02 0.05	3.28
22 07 19 00-0729 LF 2-3/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.44 0.02 0.05	3.34
22 07 19 00-0730 LF 3" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.92 0.02 0.06	3.41
22 07 19 00-0731 LF 3-1/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.41 0.02 0.06	3.49
22 07 19 00-0732 LF 3-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.90 0.03 0.07	3.57
22 07 19 00-0733 LF 3-3/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.33 0.03 0.07	3.63
22 07 19 00-0734 LF 4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.85 0.03 0.07	3.72
22 07 19 00-0735 LF 4-1/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.38 0.03 0.08	3.81
22 07 19 00-0736 LF 4-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.96 0.03 0.08	3.91
22 07 19 00-0737 LF 4-3/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.44 0.04 0.09	3.98
22 07 19 00-0738 LF 5" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.04 0.04 0.09	4.09
22 07 19 00-0739 LF 5-1/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.65 0.04 0.10	4.20
22 07 19 00-0740 LF 5-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.17 0.04 0.10	4.29
22 07 19 00-0741 LF 5-3/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.85 0.04 0.11	4.41
22 07 19 00-0742 LF 6" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.56 0.04 0.11	4.54
22 07 19 00-0743 LF 6-1/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.00 0.05 0.11	4.61
22 07 19 00-0744 LF 6-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.45 0.05 0.12	4.68
22 07 19 00-0745 LF 7" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.19 0.05 0.13	4.79
22 07 19 00-0746 LF 7-1/4" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.82 0.05 0.13	4.90
22 07 19 00-0747 LF 7-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.31 0.05 0.13	4.98
22 07 19 00-0748 LF 8" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.00 0.06 0.14	5.07
22 07 19 00-0749 LF 8-1/2" ID, 0.032" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.67 0.06 0.15	5.15

**22 Plumbing****22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0750 LF 9" ID, 0.032" Aluminum Insulation Jacketing.....	27.54	5.29
For Stucco Embossed, Add	0.06	
For Corrugated, Add	0.16	
22 07 19 00-0751 LF 9-1/2" ID, 0.032" Aluminum Insulation Jacketing .....	28.27	5.38
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.17	
22 07 19 00-0752 LF 10" ID, 0.032" Aluminum Insulation Jacketing.....	28.98	5.48
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.18	
22 07 19 00-0753 LF 10-1/2" ID, 0.032" Aluminum Insulation Jacketing .....	29.72	5.58
For Stucco Embossed, Add	0.07	
For Corrugated, Add	0.19	
22 07 19 00-0754 LF 11" ID, 0.0106 Aluminum Insulation Jacketing.....	30.69	5.73
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.19	
22 07 19 00-0755 LF 11-1/2" ID, 0.032" Aluminum Insulation Jacketing .....	31.48	5.84
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.20	
22 07 19 00-0756 LF 12" ID, 0.032" Aluminum Insulation Jacketing.....	32.27	5.96
For Stucco Embossed, Add	0.08	
For Corrugated, Add	0.21	
22 07 19 00-0757 LF 12-1/2" ID, 0.032" Aluminum Insulation Jacketing .....	33.33	6.13
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.22	
22 07 19 00-0758 LF 13" ID, 0.032" Aluminum Insulation Jacketing.....	33.91	6.20
For Stucco Embossed, Add	0.09	
For Corrugated, Add	0.23	
22 07 19 00-0759 LF 14" ID, 0.032" Aluminum Insulation Jacketing.....	34.86	6.26
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.25	
22 07 19 00-0760 LF 15" ID, 0.032" Aluminum Insulation Jacketing.....	36.06	6.39
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.26	
22 07 19 00-0761 LF 16" ID, 0.032" Aluminum Insulation Jacketing.....	37.03	6.45
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.28	
22 07 19 00-0762 LF 17" ID, 0.032" Aluminum Insulation Jacketing.....	38.26	6.59
For Stucco Embossed, Add	0.12	
For Corrugated, Add	0.30	
22 07 19 00-0763 LF 18" ID, 0.032" Aluminum Insulation Jacketing.....	39.02	6.66
For Stucco Embossed, Add	0.12	
For Corrugated, Add	0.31	
22 07 19 00-0764 LF 19" ID, 0.032" Aluminum Insulation Jacketing.....	40.52	6.81
For Stucco Embossed, Add	0.13	
For Corrugated, Add	0.33	
22 07 19 00-0765 LF 20" ID, 0.032" Aluminum Insulation Jacketing.....	41.52	6.89
For Stucco Embossed, Add	0.14	
For Corrugated, Add	0.35	
22 07 19 00-0766 LF 21" ID, 0.032" Aluminum Insulation Jacketing.....	42.82	7.05
For Stucco Embossed, Add	0.15	
For Corrugated, Add	0.37	
22 07 19 00-0767 LF 22" ID, 0.032" Aluminum Insulation Jacketing.....	43.84	7.13
For Stucco Embossed, Add	0.15	
For Corrugated, Add	0.38	
22 07 19 00-0768 LF 23" ID, 0.032" Aluminum Insulation Jacketing.....	45.22	7.30
For Stucco Embossed, Add	0.16	
For Corrugated, Add	0.40	
22 07 19 00-0769 LF 24" ID, 0.032" Aluminum Insulation Jacketing.....	46.24	7.39
For Stucco Embossed, Add	0.17	
For Corrugated, Add	0.42	
<b>22 07 19 00-0770 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0559)</b>		
22 07 19 00-0771 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing.....	13.55	3.21
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0772 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing.....	14.05	3.29
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.02	
22 07 19 00-0773 LF 1" ID, 0.040" Aluminum Insulation Jacketing.....	14.57	3.36
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0774 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing .....	15.12	3.45
For Stucco Embossed, Add	0.01	
For Corrugated, Add	0.03	
22 07 19 00-0775 LF 1-1/2" ID, 0.040" Aluminum Insulation Jacketing .....	15.54	3.50
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0776 LF 1-3/4" ID, 0.040" Aluminum Insulation Jacketing .....	15.96	3.55
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.04	
22 07 19 00-0777 LF 2" ID, 0.040" Aluminum Insulation Jacketing.....	16.46	3.62
For Stucco Embossed, Add	0.02	
For Corrugated, Add	0.05	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0778 LF 2-1/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.97 0.02 0.06	3.70
22 07 19 00-0779 LF 2-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.53 0.02 0.06	3.77
22 07 19 00-0780 LF 2-3/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.98 0.03 0.07	3.84
22 07 19 00-0781 LF 3" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.56 0.03 0.07	3.92
22 07 19 00-0782 LF 3-1/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.14 0.03 0.08	4.01
22 07 19 00-0783 LF 3-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.73 0.03 0.08	4.10
22 07 19 00-0784 LF 3-3/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.23 0.04 0.09	4.17
22 07 19 00-0785 LF 4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.84 0.04 0.09	4.28
22 07 19 00-0786 LF 4-1/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.47 0.04 0.10	4.38
22 07 19 00-0787 LF 4-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.17 0.04 0.10	4.49
22 07 19 00-0788 LF 4-3/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.73 0.04 0.11	4.58
22 07 19 00-0789 LF 5" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.43 0.05 0.12	4.70
22 07 19 00-0790 LF 5-1/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.16 0.05 0.12	4.83
22 07 19 00-0791 LF 5-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.77 0.05 0.13	4.93
22 07 19 00-0792 LF 5-3/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.59 0.05 0.13	5.07
22 07 19 00-0793 LF 6" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.39 0.05 0.14	5.22
22 07 19 00-0794 LF 6-1/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.92 0.06 0.14	5.31
22 07 19 00-0795 LF 6-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.46 0.06 0.15	5.39
22 07 19 00-0796 LF 7" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.36 0.06 0.16	5.52
22 07 19 00-0797 LF 7-1/4" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.11 0.07 0.16	5.65
22 07 19 00-0798 LF 7-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.68 0.07 0.17	5.74
22 07 19 00-0799 LF 8" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.50 0.07 0.18	5.84
22 07 19 00-0800 LF 8-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.30 0.08 0.19	5.93
22 07 19 00-0801 LF 9" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.34 0.08 0.20	6.08
22 07 19 00-0802 LF 9-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.22 0.08 0.21	6.19
22 07 19 00-0803 LF 10" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.09 0.09 0.22	6.30
22 07 19 00-0804 LF 10-1/2" ID, 0.040" Aluminum Insulation Jacketing ..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.96 0.09 0.23	6.41
22 07 19 00-0805 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.12 0.10 0.24	6.59

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0806 LF 11-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	37.07	6.72
For Stucco Embossed, Add	0.10	
For Corrugated, Add	0.25	
22 07 19 00-0807 LF 12" ID, 0.040" Aluminum Insulation Jacketing.....	38.01	6.85
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.27	
22 07 19 00-0808 LF 12-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	39.26	7.05
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.28	
22 07 19 00-0809 LF 13" ID, 0.040" Aluminum Insulation Jacketing.....	39.97	7.12
For Stucco Embossed, Add	0.11	
For Corrugated, Add	0.29	
22 07 19 00-0810 LF 14" ID, 0.040" Aluminum Insulation Jacketing.....	41.14	7.19
For Stucco Embossed, Add	0.12	
For Corrugated, Add	0.31	
22 07 19 00-0811 LF 15" ID, 0.040" Aluminum Insulation Jacketing.....	42.59	7.35
For Stucco Embossed, Add	0.13	
For Corrugated, Add	0.33	
22 07 19 00-0812 LF 16" ID, 0.040" Aluminum Insulation Jacketing.....	43.76	7.43
For Stucco Embossed, Add	0.14	
For Corrugated, Add	0.35	
22 07 19 00-0813 LF 17" ID, 0.040" Aluminum Insulation Jacketing.....	45.25	7.59
For Stucco Embossed, Add	0.15	
For Corrugated, Add	0.37	
22 07 19 00-0814 LF 18" ID, 0.040" Aluminum Insulation Jacketing.....	46.18	7.67
For Stucco Embossed, Add	0.16	
For Corrugated, Add	0.39	
22 07 19 00-0815 LF 19" ID, 0.040" Aluminum Insulation Jacketing.....	48.00	7.84
For Stucco Embossed, Add	0.17	
For Corrugated, Add	0.42	
22 07 19 00-0816 LF 20" ID, 0.040" Aluminum Insulation Jacketing.....	49.22	7.93
For Stucco Embossed, Add	0.18	
For Corrugated, Add	0.44	
22 07 19 00-0817 LF 21" ID, 0.040" Aluminum Insulation Jacketing.....	50.79	8.11
For Stucco Embossed, Add	0.18	
For Corrugated, Add	0.46	
22 07 19 00-0818 LF 22" ID, 0.040" Aluminum Insulation Jacketing.....	52.03	8.20
For Stucco Embossed, Add	0.19	
For Corrugated, Add	0.48	
22 07 19 00-0819 LF 23" ID, 0.040" Aluminum Insulation Jacketing.....	53.69	8.40
For Stucco Embossed, Add	0.20	
For Corrugated, Add	0.50	
22 07 19 00-0820 LF 24" ID, 0.040" Aluminum Insulation Jacketing.....	54.94	8.50
For Stucco Embossed, Add	0.21	
For Corrugated, Add	0.52	
<b>22 07 19 00-0821 Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0559)</b>		
22 07 19 00-0822 EA 1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	17.38	3.30
22 07 19 00-0823 EA 1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	17.87	3.42
22 07 19 00-0824 EA 2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	19.49	3.55
22 07 19 00-0825 EA 2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	19.71	3.61
22 07 19 00-0826 EA 2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	19.94	3.66
22 07 19 00-0827 EA 2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.29	3.75
22 07 19 00-0828 EA 3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.11	3.84
22 07 19 00-0829 EA 3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.51	3.94
22 07 19 00-0830 EA 3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	22.83	4.01
22 07 19 00-0831 EA 3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	23.29	4.08
22 07 19 00-0832 EA 4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	24.06	4.19
22 07 19 00-0833 EA 4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	24.57	4.27
22 07 19 00-0834 EA 4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	24.89	4.35
22 07 19 00-0835 EA 4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	25.22	4.43
22 07 19 00-0836 EA 5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	26.54	4.52
22 07 19 00-0837 EA 5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	28.19	4.61
22 07 19 00-0838 EA 5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	31.15	4.75
22 07 19 00-0839 EA 5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	31.55	4.85
22 07 19 00-0840 EA 6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	30.40	5.01
22 07 19 00-0841 EA 6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	30.85	5.12
22 07 19 00-0842 EA 6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	33.67	5.31
22 07 19 00-0843 EA 7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	36.83	5.43
22 07 19 00-0844 EA 7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	37.08	5.49
22 07 19 00-0845 EA 7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	44.48	5.56
22 07 19 00-0846 EA 8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	39.09	5.63
22 07 19 00-0847 EA 8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	53.72	5.77
22 07 19 00-0848 EA 9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	54.30	5.91
22 07 19 00-0849 EA 9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	46.50	5.99
22 07 19 00-0850 EA 10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	46.82	6.07
22 07 19 00-0851 EA 10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	47.64	6.15
22 07 19 00-0852 EA 11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	47.97	6.23
22 07 19 00-0853 EA 11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	51.81	6.40
22 07 19 00-0854 EA 12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	52.16	6.49
22 07 19 00-0855 EA 12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	73.35	6.68
22 07 19 00-0856 EA 13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	73.75	6.78



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0857	EA			14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	90.46	6.98
22 07 19 00-0858	EA			15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	94.18	7.20
22 07 19 00-0859	EA			16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	100.58	7.31
22 07 19 00-0860	EA			2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.01	3.66
22 07 19 00-0861	EA			2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.36	3.75
22 07 19 00-0862	EA			3" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	20.31	3.84
22 07 19 00-0863	EA			3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	20.71	3.94
22 07 19 00-0864	EA			3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing.....	21.68	4.01
22 07 19 00-0865	EA			3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	21.96	4.08
22 07 19 00-0866	EA			4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.50	4.19
22 07 19 00-0867	EA			4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	23.62	4.27
22 07 19 00-0868	EA			4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	23.94	4.35
22 07 19 00-0869	EA			4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	24.27	4.43
22 07 19 00-0870	EA			5" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	25.77	4.52
22 07 19 00-0871	EA			5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	26.13	4.61
22 07 19 00-0872	EA			5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	27.06	4.75
22 07 19 00-0873	EA			6" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.10	5.01
22 07 19 00-0874	EA			6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	32.32	5.31
22 07 19 00-0875	EA			7" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	32.82	5.43
22 07 19 00-0876	EA			7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	33.46	5.56
22 07 19 00-0877	EA			8" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	33.73	5.63
22 07 19 00-0878	EA			8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	37.02	5.77
22 07 19 00-0879	EA			9" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	37.60	5.91
22 07 19 00-0880	EA			9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	43.33	5.99
22 07 19 00-0881	EA			10" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	43.65	6.07
22 07 19 00-0882	EA			10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	42.73	6.15
22 07 19 00-0883	EA			11" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	43.06	6.23
22 07 19 00-0884	EA			11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	47.40	6.40
22 07 19 00-0885	EA			12" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	47.75	6.49
22 07 19 00-0886	EA			13" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	52.69	6.78
22 07 19 00-0887	EA			14" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	59.30	6.98
22 07 19 00-0888	EA			15" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	77.14	7.20
22 07 19 00-0889	EA			16" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	81.66	7.31
22 07 19 00-0890	EA			17" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	80.90	7.44
22 07 19 00-0891	EA			18" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	88.57	7.56
22 07 19 00-0892	EA			19" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	102.02	7.69
22 07 19 00-0893	EA			20" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	100.19	7.82
22 07 19 00-0894	EA			21" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	106.21	7.95
22 07 19 00-0895	EA			2-1/2" ID, Aluminum Tee Insulation Jacketing.....	51.00	5.24
22 07 19 00-0896	EA			2-3/4" ID, Aluminum Tee Insulation Jacketing.....	51.49	5.37
22 07 19 00-0897	EA			3" ID, Aluminum Tee Insulation Jacketing.....	55.89	5.49
22 07 19 00-0898	EA			3-1/4" ID, Aluminum Tee Insulation Jacketing.....	56.44	5.63
22 07 19 00-0899	EA			3-1/2" ID Aluminum Tee Insulation Jacketing.....	58.62	5.77
22 07 19 00-0900	EA			4" ID, Aluminum Tee Insulation Jacketing.....	59.59	5.91
22 07 19 00-0901	EA			4-1/4" ID, Aluminum Tee Insulation Jacketing.....	62.29	6.07
22 07 19 00-0902	EA			4-1/2" ID, Aluminum Tee Insulation Jacketing.....	62.64	6.23
22 07 19 00-0903	EA			4-3/4" ID, Aluminum Tee Insulation Jacketing.....	63.33	6.40
22 07 19 00-0904	EA			5" ID, Aluminum Tee Insulation Jacketing.....	65.47	6.59
22 07 19 00-0905	EA			5-1/4" ID, Aluminum Tee Insulation Jacketing.....	66.25	6.78
22 07 19 00-0906	EA			5-1/2" ID, Aluminum Tee Insulation Jacketing.....	68.79	6.98
22 07 19 00-0907	EA			6" ID, Aluminum Tee Insulation Jacketing.....	69.67	7.20
22 07 19 00-0908	EA			6-1/2" ID, Aluminum Tee Insulation Jacketing.....	75.62	7.69
22 07 19 00-0909	EA			7" ID, Aluminum Tee Insulation Jacketing.....	76.67	7.95
22 07 19 00-0910	EA			7-1/2" ID, Aluminum Tee Insulation Jacketing.....	82.84	8.24
22 07 19 00-0911	EA			8" ID, Aluminum Tee Insulation Jacketing.....	84.05	8.54
22 07 19 00-0912	EA			8-1/2" ID, Aluminum Tee Insulation Jacketing.....	86.68	8.87
22 07 19 00-0913	EA			9" ID, Aluminum Tee Insulation Jacketing.....	88.10	9.22
22 07 19 00-0914	EA			9-1/2" ID, Aluminum Tee Insulation Jacketing.....	75.65	9.41
22 07 19 00-0915	EA			10" ID, Aluminum Tee Insulation Jacketing.....	76.43	9.61
22 07 19 00-0916	EA			10-1/2" ID, Aluminum Tee Insulation Jacketing.....	79.74	9.81
22 07 19 00-0917	EA			11" ID, Aluminum Tee Insulation Jacketing.....	80.59	10.03
22 07 19 00-0918	EA			11-1/2" ID, Aluminum Tee Insulation Jacketing.....	83.68	10.25
22 07 19 00-0919	EA			12" ID, Aluminum Tee Insulation Jacketing.....	84.61	10.48
22 07 19 00-0920	EA			13" ID, Aluminum Tee Insulation Jacketing.....	87.71	10.72
22 07 19 00-0921	EA			14" ID, Aluminum Tee Insulation Jacketing.....	90.94	10.98
22 07 19 00-0922	EA			15" ID, Aluminum Tee Insulation Jacketing.....	95.83	11.24
22 07 19 00-0923	EA			16" ID, Aluminum Tee Insulation Jacketing.....	98.24	11.52
22 07 19 00-0924	EA			17" ID, Aluminum Tee Insulation Jacketing.....	107.22	11.83
22 07 19 00-0925	EA			18" ID, Aluminum Tee Insulation Jacketing.....	110.80	12.14
22 07 19 00-0926	EA			19" ID, Aluminum Tee Insulation Jacketing.....	118.70	12.46
22 07 19 00-0927	EA			20" ID, Aluminum Tee Insulation Jacketing.....	121.59	12.81
22 07 19 00-0928	EA			22" ID, Aluminum Tee Insulation Jacketing.....	142.20	13.17
22 07 19 00-0929	EA			23" ID, Aluminum Tee Insulation Jacketing.....	146.24	13.56
22 07 19 00-0930	EA			24" ID, Aluminum Tee Insulation Jacketing.....	153.88	14.87

22 07 19 00-0931

Stainless Steel Insulation Protective Jacketing With Bands (22 07 19 00-0558)

22 07 19 00-0932

Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0931)

22 07 19 00-0933	SF	0.010" Stainless Steel Insulation Jacket With Bands.....	21.14	8.64
22 07 19 00-0934	SF	0.016" Stainless Steel Insulation Jacket With Bands.....	25.86	10.38



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST  
DEMOLITION UNIT COST

<b>22 07 19 00-0935</b>			
<b>21 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands</b> <small>(22 07 19 00-0931)</small>			
22 07 19 00-0936	LF	2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	10.31 1.85
22 07 19 00-0937	LF	2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	10.72 1.88
22 07 19 00-0938	LF	3" ID, 0.010" Stainless Steel Insulation Jacketing.....	11.14 1.92
22 07 19 00-0939	LF	3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	11.57 1.96
22 07 19 00-0940	LF	3-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	12.00 2.01
22 07 19 00-0941	LF	3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	12.44 2.05
22 07 19 00-0942	LF	4" ID, 0.010" Stainless Steel Insulation Jacketing.....	12.88 2.10
22 07 19 00-0943	LF	4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	13.34 2.14
22 07 19 00-0944	LF	4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	13.80 2.20
22 07 19 00-0945	LF	5" ID, 0.010" Stainless Steel Insulation Jacketing.....	14.77 2.30
22 07 19 00-0946	LF	5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	15.77 2.43
22 07 19 00-0947	LF	6" ID, 0.010" Stainless Steel Insulation Jacketing.....	16.83 2.56
22 07 19 00-0948	LF	6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	17.64 2.63
22 07 19 00-0949	LF	7" ID, 0.010" Stainless Steel Insulation Jacketing.....	18.48 2.71
22 07 19 00-0950	LF	7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	19.39 2.81
22 07 19 00-0951	LF	8" ID, 0.010" Stainless Steel Insulation Jacketing.....	20.12 2.86
22 07 19 00-0952	LF	8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	20.86 2.91
22 07 19 00-0953	LF	9" ID, 0.010" Stainless Steel Insulation Jacketing.....	21.61 2.97
22 07 19 00-0954	LF	9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	22.37 3.03
22 07 19 00-0955	LF	10" ID, 0.010" Stainless Steel Insulation Jacketing.....	23.13 3.09
22 07 19 00-0956	LF	10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	23.91 3.16
22 07 19 00-0957	LF	11" ID, 0.010" Stainless Steel Insulation Jacketing.....	24.70 3.23
22 07 19 00-0958	LF	12" ID, 0.010" Stainless Steel Insulation Jacketing.....	26.29 3.37
22 07 19 00-0959	LF	13" ID, 0.010" Stainless Steel Insulation Jacketing.....	27.86 3.50
22 07 19 00-0960	LF	14" ID, 0.010" Stainless Steel Insulation Jacketing.....	29.11 3.55

<b>22 07 19 00-0961</b>			
<b>16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands</b> <small>(22 07 19 00-0931)</small>			
22 07 19 00-0962	LF	2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	14.07 2.45
22 07 19 00-0963	LF	2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	14.65 2.50
22 07 19 00-0964	LF	3" ID, 0.016" Stainless Steel Insulation Jacketing.....	15.22 2.55
22 07 19 00-0965	LF	3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	15.84 2.61
22 07 19 00-0966	LF	3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	16.44 2.66
22 07 19 00-0967	LF	3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	17.05 2.72
22 07 19 00-0968	LF	4" ID, 0.016" Stainless Steel Insulation Jacketing.....	17.67 2.78
22 07 19 00-0969	LF	4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	18.31 2.85
22 07 19 00-0970	LF	4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	18.96 2.92
22 07 19 00-0971	LF	5" ID, 0.016" Stainless Steel Insulation Jacketing.....	20.31 3.06
22 07 19 00-0972	LF	5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	21.70 3.23
22 07 19 00-0973	LF	6" ID, 0.016" Stainless Steel Insulation Jacketing.....	23.16 3.41
22 07 19 00-0974	LF	6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	24.32 3.51
22 07 19 00-0975	LF	7" ID, 0.016" Stainless Steel Insulation Jacketing.....	25.49 3.61
22 07 19 00-0976	LF	7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	26.77 3.74
22 07 19 00-0977	LF	8" ID, 0.016" Stainless Steel Insulation Jacketing.....	27.79 3.81
22 07 19 00-0978	LF	8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	28.84 3.88
22 07 19 00-0979	LF	9" ID, 0.016" Stainless Steel Insulation Jacketing.....	29.91 3.96
22 07 19 00-0980	LF	9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	30.97 4.04
22 07 19 00-0981	LF	10" ID, 0.016" Stainless Steel Insulation Jacketing.....	32.06 4.12
22 07 19 00-0982	LF	10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	33.15 4.20
22 07 19 00-0983	LF	11" ID, 0.016" Stainless Steel Insulation Jacketing.....	34.25 4.29
22 07 19 00-0984	LF	12" ID, 0.016" Stainless Steel Insulation Jacketing.....	36.52 4.48
22 07 19 00-0985	LF	13" ID, 0.016" Stainless Steel Insulation Jacketing.....	38.71 4.64
22 07 19 00-0986	LF	14" ID, 0.016" Stainless Steel Insulation Jacketing.....	40.50 4.72

<b>22 07 19 00-0987</b>			
<b>Type 316 Stainless Steel Insulation Protective Jacketing For Fittings</b> <small>(22 07 19 00-0931)</small>			
22 07 19 00-0988	EA	2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	27.60 3.66
22 07 19 00-0989	EA	2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	27.95 3.75
22 07 19 00-0990	EA	3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	28.92 3.84
22 07 19 00-0991	EA	3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	29.32 3.94
22 07 19 00-0992	EA	3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	30.27 4.01
22 07 19 00-0993	EA	3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	31.36 4.08
22 07 19 00-0994	EA	4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	33.30 4.19
22 07 19 00-0995	EA	4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	39.05 4.27
22 07 19 00-0996	EA	4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	39.37 4.35
22 07 19 00-0997	EA	5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	40.57 4.52
22 07 19 00-0998	EA	5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	52.52 4.75
22 07 19 00-0999	EA	6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	56.84 5.01
22 07 19 00-1000	EA	6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	71.83 5.31
22 07 19 00-1001	EA	7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	72.33 5.43
22 07 19 00-1002	EA	7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	81.35 5.56
22 07 19 00-1003	EA	8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	82.18 5.77
22 07 19 00-1004	EA	8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	84.19 5.77
22 07 19 00-1005	EA	9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	116.62 5.91
22 07 19 00-1006	EA	9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	115.32 5.99



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1007	EA		10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	115.64	6.07
22 07 19 00-1008	EA		10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	133.92	6.15
22 07 19 00-1009	EA		11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	129.28	6.23
22 07 19 00-1010	EA		12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	144.44	6.49
22 07 19 00-1011	EA		13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	191.27	6.78
22 07 19 00-1012	EA		14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	193.19	6.98
22 07 19 00-1013	EA		2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	25.44	3.66
22 07 19 00-1014	EA		2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	25.79	3.75
22 07 19 00-1015	EA		3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	26.99	3.84
22 07 19 00-1016	EA		3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	27.39	3.94
22 07 19 00-1017	EA		3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	27.80	4.01
22 07 19 00-1018	EA		3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	28.08	4.08
22 07 19 00-1019	EA		4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	31.89	4.19
22 07 19 00-1020	EA		4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	38.31	4.27
22 07 19 00-1021	EA		4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	38.63	4.35
22 07 19 00-1022	EA		4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	38.96	4.43
22 07 19 00-1023	EA		5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	39.68	4.52
22 07 19 00-1024	EA		5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	40.60	4.75
22 07 19 00-1025	EA		6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	45.66	5.01
22 07 19 00-1026	EA		6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	46.81	5.31
22 07 19 00-1027	EA		7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	65.04	5.43
22 07 19 00-1028	EA		7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	66.46	5.56
22 07 19 00-1029	EA		8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	66.73	5.63
22 07 19 00-1030	EA		8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	74.81	5.77
22 07 19 00-1031	EA		9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	75.39	5.91
22 07 19 00-1032	EA		9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	84.71	5.99
22 07 19 00-1033	EA		10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	85.03	6.07
22 07 19 00-1034	EA		10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	97.62	6.15
22 07 19 00-1035	EA		11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	97.95	6.23
22 07 19 00-1036	EA		12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	105.27	6.49
22 07 19 00-1037	EA		13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	120.45	6.78
22 07 19 00-1038			<b>Polyvinyl Chloride (PVC) Insulation Protective Jacketing</b> (22 07 19 00-0558)		
22 07 19 00-1039			<b>20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing</b> (22 07 19 00-1038)		
22 07 19 00-1040	LF		1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.08	1.71
22 07 19 00-1041	LF		2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.42	1.78
22 07 19 00-1042	LF		2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.77	1.85
22 07 19 00-1043	LF		3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.17	1.92
22 07 19 00-1044	LF		3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.56	2.01
22 07 19 00-1045	LF		4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.99	2.10
22 07 19 00-1046	LF		4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.46	2.20
22 07 19 00-1047	LF		5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.97	2.30
22 07 19 00-1048	LF		5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.53	2.43
22 07 19 00-1049	LF		6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.14	2.56
22 07 19 00-1050	LF		6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.50	2.63
22 07 19 00-1051	LF		7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.88	2.71
22 07 19 00-1052	LF		7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.35	2.81
22 07 19 00-1053	LF		8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.62	2.86
22 07 19 00-1054	LF		8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.92	2.91
22 07 19 00-1055	LF		9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.22	2.97
22 07 19 00-1056	LF		9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.53	3.03
22 07 19 00-1057	LF		10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.83	3.09
22 07 19 00-1058	LF		10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	14.15	3.16
22 07 19 00-1059	LF		11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	14.50	3.23
22 07 19 00-1060	LF		11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	14.84	3.30
22 07 19 00-1061	LF		12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	15.19	3.37
22 07 19 00-1062	LF		12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	15.58	3.44
22 07 19 00-1063	LF		13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	15.86	3.50
22 07 19 00-1064	LF		13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	15.93	3.50
22 07 19 00-1065	LF		14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	16.21	3.55
22 07 19 00-1066	LF		15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	16.58	3.61
22 07 19 00-1067	LF		16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	16.94	3.66
22 07 19 00-1068	LF		17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	17.32	3.72
22 07 19 00-1069	LF		18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	17.71	3.78
22 07 19 00-1070	LF		19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	18.10	3.84
22 07 19 00-1071	LF		20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	18.50	3.91
22 07 19 00-1072	LF		21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	18.91	3.98
22 07 19 00-1073	LF		22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	19.33	4.05
22 07 19 00-1074	LF		23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	19.76	4.12
22 07 19 00-1075	LF		24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	20.20	4.19
22 07 19 00-1076	LF		25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	20.66	4.27
22 07 19 00-1077	LF		26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	21.11	4.35
22 07 19 00-1078	LF		27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	21.59	4.43
22 07 19 00-1079	LF		28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	22.08	4.52
22 07 19 00-1080	LF		29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	22.59	4.61
22 07 19 00-1081	LF		30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	23.10	4.70
22 07 19 00-1082			<b>30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing</b> (22 07 19 00-1038)		

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1083	LF		2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	7.58	1.78
22 07 19 00-1084	LF		2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	7.97	1.85
22 07 19 00-1085	LF		3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	8.39	1.92
22 07 19 00-1086	LF		3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	8.82	2.01
22 07 19 00-1087	LF		4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	9.28	2.10
22 07 19 00-1088	LF		4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	9.79	2.20
22 07 19 00-1089	LF		5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	10.33	2.30
22 07 19 00-1090	LF		5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	10.92	2.43
22 07 19 00-1091	LF		6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	11.57	2.56
22 07 19 00-1092	LF		6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	11.96	2.63
22 07 19 00-1093	LF		7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	12.37	2.71
22 07 19 00-1094	LF		7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	12.88	2.81
22 07 19 00-1095	LF		8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	13.19	2.86
22 07 19 00-1096	LF		8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	13.52	2.91
22 07 19 00-1097	LF		9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	13.85	2.97
22 07 19 00-1098	LF		9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	14.19	3.03
22 07 19 00-1099	LF		10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	14.54	3.09
22 07 19 00-1100	LF		10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	14.89	3.16
22 07 19 00-1101	LF		11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	15.26	3.23
22 07 19 00-1102	LF		11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	15.64	3.30
22 07 19 00-1103	LF		12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	16.03	3.37
22 07 19 00-1104	LF		12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	16.45	3.44
22 07 19 00-1105	LF		13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	16.77	3.50
22 07 19 00-1106	LF		13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	16.87	3.50
22 07 19 00-1107	LF		14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	17.19	3.55
22 07 19 00-1108	LF		15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	17.61	3.61
22 07 19 00-1109	LF		16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	18.05	3.66
22 07 19 00-1110	LF		17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	18.49	3.72
22 07 19 00-1111	LF		18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	18.96	3.78
22 07 19 00-1112	LF		19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	19.41	3.84
22 07 19 00-1113	LF		20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	19.88	3.91
22 07 19 00-1114	LF		21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	20.36	3.98
22 07 19 00-1115	LF		22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	20.84	4.05
22 07 19 00-1116	LF		23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	21.34	4.12
22 07 19 00-1117	LF		24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	21.85	4.19
22 07 19 00-1118	LF		25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	22.38	4.27
22 07 19 00-1119	LF		26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	22.90	4.35
22 07 19 00-1120	LF		27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	23.44	4.43
22 07 19 00-1121	LF		28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	24.01	4.52
22 07 19 00-1122	LF		29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	24.58	4.61
22 07 19 00-1123	LF		30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing .....	25.15	4.70

**22 07 19 00-1124 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings** (22 07 19 00-

22 07 19 00-1125	EA		1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	14.23	3.42
22 07 19 00-1126	EA		2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	14.89	3.55
22 07 19 00-1127	EA		2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	15.20	3.61
22 07 19 00-1128	EA		2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	15.51	3.66
22 07 19 00-1129	EA		2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	15.93	3.75
22 07 19 00-1130	EA		3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	16.37	3.84
22 07 19 00-1131	EA		3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	17.03	3.98
22 07 19 00-1132	EA		3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	17.58	4.08
22 07 19 00-1133	EA		4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	18.37	4.19
22 07 19 00-1134	EA		4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	19.49	4.39
22 07 19 00-1135	EA		5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	20.70	4.61
22 07 19 00-1136	EA		5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	22.37	4.85
22 07 19 00-1137	EA		6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	25.44	5.12
22 07 19 00-1138	EA		6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	26.40	5.31
22 07 19 00-1139	EA		7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	28.22	5.43
22 07 19 00-1140	EA		7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	29.07	5.56
22 07 19 00-1141	EA		8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	31.86	5.77
22 07 19 00-1142	EA		9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	35.70	5.99
22 07 19 00-1143	EA		10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	38.05	6.23
22 07 19 00-1144	EA		11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	41.01	6.49
22 07 19 00-1145	EA		12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	46.12	6.78
22 07 19 00-1146	EA		14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	49.64	6.98
22 07 19 00-1147	EA		15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	52.14	7.20
22 07 19 00-1148	EA		16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	54.74	7.31
22 07 19 00-1149	EA		17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	57.99	7.44
22 07 19 00-1150	EA		18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	66.66	7.56
22 07 19 00-1151	EA		19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	80.21	7.69
22 07 19 00-1152	EA		20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing .....	94.83	7.82
22 07 19 00-1153	EA		1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	14.23	3.42
22 07 19 00-1154	EA		2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	14.89	3.55
22 07 19 00-1155	EA		2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	15.20	3.61
22 07 19 00-1156	EA		2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	15.51	3.66
22 07 19 00-1157	EA		2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	15.93	3.75
22 07 19 00-1158	EA		3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	16.37	3.84
22 07 19 00-1159	EA		3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	17.03	3.98
22 07 19 00-1160	EA		3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing .....	17.58	4.08



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1161	EA	4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	18.37	4.19
22 07 19 00-1162	EA	4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	19.49	4.39
22 07 19 00-1163	EA	5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	20.70	4.61
22 07 19 00-1164	EA	5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	22.37	4.85
22 07 19 00-1165	EA	6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	25.44	5.12
22 07 19 00-1166	EA	6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	26.40	5.31
22 07 19 00-1167	EA	7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	28.22	5.43
22 07 19 00-1168	EA	7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	29.07	5.56
22 07 19 00-1169	EA	8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	31.86	5.77
22 07 19 00-1170	EA	9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	35.70	5.99
22 07 19 00-1171	EA	10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	38.04	6.23
22 07 19 00-1172	EA	11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	40.43	6.49
22 07 19 00-1173	EA	12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	43.27	6.78
22 07 19 00-1174	EA	14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	46.38	6.98
22 07 19 00-1175	EA	15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	48.61	7.20
22 07 19 00-1176	EA	16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	51.88	7.31
22 07 19 00-1177	EA	17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	55.20	7.44
22 07 19 00-1178	EA	18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	61.33	7.56
22 07 19 00-1179	EA	19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	73.16	7.69
22 07 19 00-1180	EA	20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing.....	79.30	7.82
22 07 19 00-1181	EA	1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	20.29	4.80
22 07 19 00-1182	EA	2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	20.84	4.90
22 07 19 00-1183	EA	2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	21.60	5.06
22 07 19 00-1184	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	22.41	5.24
22 07 19 00-1185	EA	2-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	23.30	5.43
22 07 19 00-1186	EA	3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	24.23	5.63
22 07 19 00-1187	EA	3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	25.34	5.84
22 07 19 00-1188	EA	3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	26.53	6.07
22 07 19 00-1189	EA	4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	27.94	6.32
22 07 19 00-1190	EA	4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	29.68	6.59
22 07 19 00-1191	EA	5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	31.53	6.88
22 07 19 00-1192	EA	5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	34.60	7.31
22 07 19 00-1193	EA	6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	37.74	7.69
22 07 19 00-1194	EA	6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	39.90	7.82
22 07 19 00-1195	EA	7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	46.32	8.09
22 07 19 00-1196	EA	7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	49.47	8.54
22 07 19 00-1197	EA	8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	54.11	8.87
22 07 19 00-1198	EA	9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	58.86	9.22
22 07 19 00-1199	EA	10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	60.65	9.61
22 07 19 00-1200	EA	11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	63.95	9.81
22 07 19 00-1201	EA	12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	67.27	10.03
22 07 19 00-1202	EA	14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	70.64	10.25
22 07 19 00-1203	EA	15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	74.03	10.48
22 07 19 00-1204	EA	16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	77.48	10.72
22 07 19 00-1205	EA	17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	80.95	10.98
22 07 19 00-1206	EA	18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	85.75	11.24
22 07 19 00-1207	EA	19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	90.59	11.52
22 07 19 00-1208	EA	20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing.....	96.30	11.83
22 07 19 00-1209	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	17.68	3.30
22 07 19 00-1210	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	17.68	3.30
22 07 19 00-1211	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	19.37	3.42
22 07 19 00-1212	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	19.37	3.42
22 07 19 00-1213	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	23.20	3.55
22 07 19 00-1214	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	24.76	3.69
22 07 19 00-1215	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	26.57	3.84
22 07 19 00-1216	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	29.01	4.01
22 07 19 00-1217	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	31.22	4.19
22 07 19 00-1218	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	36.41	4.61
22 07 19 00-1219	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	47.03	5.12
22 07 19 00-1220	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	51.96	5.77
22 07 19 00-1221	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	61.57	6.15
22 07 19 00-1222	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	80.30	6.78
22 07 19 00-1223	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	81.65	7.09
22 07 19 00-1224	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	101.72	7.31
22 07 19 00-1225	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing.....	129.86	7.56
22 07 19 00-1226	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	17.18	3.30
22 07 19 00-1227	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	17.18	3.30
22 07 19 00-1228	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	18.77	3.42
22 07 19 00-1229	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	18.77	3.42
22 07 19 00-1230	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	22.21	3.55
22 07 19 00-1231	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	23.66	3.69
22 07 19 00-1232	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	25.37	3.84
22 07 19 00-1233	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	26.59	4.01
22 07 19 00-1234	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	29.62	4.19
22 07 19 00-1235	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	34.43	4.61
22 07 19 00-1236	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	44.12	5.12
22 07 19 00-1237	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	48.77	5.77
22 07 19 00-1238	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	57.51	6.15
22 07 19 00-1239	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	74.49	6.78
22 07 19 00-1240	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	89.98	7.09
22 07 19 00-1241	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing.....	103.91	7.31

**22 Plumbing**  
**22 07 Plumbing Insulation**  
**22 07 19 Plumbing Piping Insulation**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1242	EA		18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	118.31	7.56
22 07 19 00-1243	EA		3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	25.71	4.95
22 07 19 00-1244	EA		1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	25.71	4.95
22 07 19 00-1245	EA		1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	27.92	5.12
22 07 19 00-1246	EA		1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	27.92	5.12
22 07 19 00-1247	EA		2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	32.90	5.31
22 07 19 00-1248	EA		2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	34.97	5.49
22 07 19 00-1249	EA		3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	37.62	5.77
22 07 19 00-1250	EA		3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	39.38	5.99
22 07 19 00-1251	EA		4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	44.11	6.32
22 07 19 00-1252	EA		5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	48.29	6.88
22 07 19 00-1253	EA		6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	61.46	7.69
22 07 19 00-1254	EA		8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	67.44	8.54
22 07 19 00-1255	EA		10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	84.96	9.22
22 07 19 00-1256	EA		12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	109.20	10.03
22 07 19 00-1257	EA		14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	126.36	10.72
22 07 19 00-1258	EA		16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	144.05	10.98
22 07 19 00-1259	EA		18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing .....	155.28	11.24

**22 10 Plumbing Piping** <sup>(22)</sup>

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

**22 11 Facility Water Distribution** <sup>(22 10)</sup>

**22 11 16 Domestic Water Piping** <sup>(22 11)</sup>

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks. See CSI section 23 21 13 00-0000 for black steel piping and fitting.

**22 11 16 00-0001 Galvanized Steel Pipe Assemblies** <sup>(22 11 16)</sup>

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.

22 11 16 00-0002	LF		1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....	17.24	4.33
			Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	4.17	
			<i>For ASTM 120, Deduct</i>	-0.43	
			<i>For Work In Restricted Working Space, Add</i>	4.31	
22 11 16 00-0003	LF		3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....	18.74	4.65
			Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	4.64	
			<i>For ASTM 120, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	4.56	
22 11 16 00-0004	LF		1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....	20.88	5.09
			Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	5.34	
			<i>For ASTM 120, Deduct</i>	-0.70	
			<i>For Work In Restricted Working Space, Add</i>	4.87	
22 11 16 00-0005	LF		1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....	23.92	5.31
			Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	6.45	
			<i>For ASTM 120, Deduct</i>	-1.00	
			<i>For Work In Restricted Working Space, Add</i>	5.18	
22 11 16 00-0006	LF		1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....	25.58	6.28
			Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	7.02	
			<i>For ASTM 120, Deduct</i>	-1.14	
			<i>For Work In Restricted Working Space, Add</i>	5.39	
22 11 16 00-0007	LF		2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....	30.54	7.58
			Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	8.63	
			<i>For ASTM 120, Deduct</i>	-1.51	
			<i>For Work In Restricted Working Space, Add</i>	6.14	
22 11 16 00-0008	LF		2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....	43.71	8.98
			Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	13.67	
			<i>For ASTM 120, Deduct</i>	-2.96	
			<i>For Work In Restricted Working Space, Add</i>	7.19	
22 11 16 00-0009	LF		3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly .....	53.47	12.01
			Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
			<i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i>	16.79	
			<i>For ASTM 120, Deduct</i>	-3.66	
			<i>For Work In Restricted Working Space, Add</i>	8.72	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0010	LF		4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	79.81 28.36 -7.44 9.06	12.94
22 11 16 00-0011	LF		5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	148.22 57.57 -16.76 10.95	16.53
22 11 16 00-0012	LF		6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	171.75 66.92 -19.54 12.44	19.55
<b>22 11 16 00-0013 Galvanized Steel Pipe And Threaded Fittings</b> <small>(22 11 16)</small>					
Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.					
<b>22 11 16 00-0014 Threaded And Coupled, Galvanized Steel Piping</b> <small>(22 11 16 00-0013)</small>					
Note: ASTM A-53. Includes coupling.					
22 11 16 00-0015	LF		1/2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	7.89 1.29 -0.20 1.97	4.33
22 11 16 00-0016	LF		3/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8.74 1.54 -0.26 2.09	4.65
22 11 16 00-0017	LF		1" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	10.18 2.01 -0.39 2.27	5.09
22 11 16 00-0018	LF		1-1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	11.56 2.50 -0.53 2.41	5.31
22 11 16 00-0019	LF		1-1/2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	13.64 2.97 -0.63 2.82	6.28
22 11 16 00-0020	LF		2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	17.08 3.87 -0.85 3.42	7.58
22 11 16 00-0021	LF		2-1/2" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.55 5.68 -1.35 4.06	8.98
22 11 16 00-0022	LF		3" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	29.84 7.47 -1.77 5.41	12.01
22 11 16 00-0023	LF		4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	36.25 10.01 -2.52 5.84	12.94
22 11 16 00-0024	LF		5" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	47.28 13.29 -3.38 7.43	16.53
22 11 16 00-0025	LF		6" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	58.51 16.96 -4.38 8.78	19.55
<b>22 11 16 00-0026 Galvanized Malleable Iron 90 Degree Elbows</b> <small>(22 11 16 00-0013)</small>					
22 11 16 00-0027	EA		1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	33.36 17.03 -0.68 8.66	19.27
22 11 16 00-0028	EA		3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	37.83 20.74 -0.83 9.69	21.54
22 11 16 00-0029	EA		1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	46.33 37.01 -1.54 10.82	24.03

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0030	EA		1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....	57.03	27.28
			<i>For 300 LB Rating, Add</i>	57.50	
			<i>For ASTM 120, Deduct</i>	-2.43	
			<i>For Work In Restricted Working Space, Add</i>	12.25	
22 11 16 00-0031	EA		1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....	67.19	30.73
			<i>For 300 LB Rating, Add</i>	74.64	
			<i>For ASTM 120, Deduct</i>	-3.17	
			<i>For Work In Restricted Working Space, Add</i>	13.82	
22 11 16 00-0032	EA		2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	93.12	39.07
			<i>For 300 LB Rating, Add</i>	121.22	
			<i>For ASTM 120, Deduct</i>	-5.19	
			<i>For Work In Restricted Working Space, Add</i>	17.55	
22 11 16 00-0033	EA		2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow .....	177.17	57.79
			<i>For 300 LB Rating, Add</i>	313.20	
			<i>For ASTM 120, Deduct</i>	-13.59	
			<i>For Work In Restricted Working Space, Add</i>	25.97	
22 11 16 00-0034	EA		3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	263.27	75.98
			<i>For 300 LB Rating, Add</i>	514.63	
			<i>For ASTM 120, Deduct</i>	-22.40	
			<i>For Work In Restricted Working Space, Add</i>	34.18	
22 11 16 00-0035	EA		4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	376.86	75.65
			<i>For 300 LB Rating, Add</i>	902.43	
			<i>For ASTM 120, Deduct</i>	-39.51	
			<i>For Work In Restricted Working Space, Add</i>	34.03	
22 11 16 00-0036	EA		5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,255.97	78.95
			<i>For 300 LB Rating, Add</i>	3,874.91	
			<i>For ASTM 120, Deduct</i>	-170.64	
			<i>For Work In Restricted Working Space, Add</i>	35.51	
22 11 16 00-0037	EA		6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,172.49	82.55
			<i>For 300 LB Rating, Add</i>	3,573.11	
			<i>For ASTM 120, Deduct</i>	-157.31	
			<i>For Work In Restricted Working Space, Add</i>	37.13	
<b>22 11 16 00-0038</b>			<b>Galvanized Malleable Iron Reducing 90 Degree Elbows</b> <small>(22 11 16 00-0013)</small>		
22 11 16 00-0039	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	40.20	20.34
			<i>For ASTM 120, Deduct</i>	-1.44	
			<i>For Work In Restricted Working Space, Add</i>	9.17	
22 11 16 00-0040	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	46.53	22.83
			<i>For ASTM 120, Deduct</i>	-1.85	
			<i>For Work In Restricted Working Space, Add</i>	10.26	
22 11 16 00-0041	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	45.57	21.65
			<i>For ASTM 120, Deduct</i>	-1.97	
			<i>For Work In Restricted Working Space, Add</i>	9.74	
22 11 16 00-0042	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	59.16	25.65
			<i>For ASTM 120, Deduct</i>	-3.11	
			<i>For Work In Restricted Working Space, Add</i>	11.54	
22 11 16 00-0043	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	61.44	24.35
			<i>For ASTM 120, Deduct</i>	-3.73	
			<i>For Work In Restricted Working Space, Add</i>	10.97	
22 11 16 00-0044	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	61.19	23.27
			<i>For ASTM 120, Deduct</i>	-3.95	
			<i>For Work In Restricted Working Space, Add</i>	10.45	
22 11 16 00-0045	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	76.53	29.00
			<i>For ASTM 120, Deduct</i>	-4.96	
			<i>For Work In Restricted Working Space, Add</i>	13.03	
22 11 16 00-0046	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	74.15	27.38
			<i>For ASTM 120, Deduct</i>	-4.96	
			<i>For Work In Restricted Working Space, Add</i>	12.32	
22 11 16 00-0047	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	72.27	26.08
			<i>For ASTM 120, Deduct</i>	-4.96	
			<i>For Work In Restricted Working Space, Add</i>	11.75	
22 11 16 00-0048	EA		2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	90.93	34.84
			<i>For ASTM 120, Deduct</i>	-5.80	
			<i>For Work In Restricted Working Space, Add</i>	15.68	
22 11 16 00-0049	EA		2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	93.99	33.12
			<i>For ASTM 120, Deduct</i>	-6.65	
			<i>For Work In Restricted Working Space, Add</i>	14.90	
22 11 16 00-0050	EA		2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	93.27	31.50
			<i>For ASTM 120, Deduct</i>	-6.90	
			<i>For Work In Restricted Working Space, Add</i>	14.19	
22 11 16 00-0051	EA		2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	80.28	30.30
			<i>For ASTM 120, Deduct</i>	-5.23	
			<i>For Work In Restricted Working Space, Add</i>	13.62	
22 11 16 00-0052	EA		2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	203.57	48.38
			<i>For ASTM 120, Deduct</i>	-19.65	
			<i>For Work In Restricted Working Space, Add</i>	21.76	
22 11 16 00-0053	EA		2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	212.30	44.26
			<i>For ASTM 120, Deduct</i>	-21.90	
			<i>For Work In Restricted Working Space, Add</i>	19.90	
22 11 16 00-0054	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow .....	338.40	66.88
			<i>For ASTM 120, Deduct</i>	-35.72	
			<i>For Work In Restricted Working Space, Add</i>	30.08	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0055	EA		3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow ..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	293.05 -31.03 25.86	57.47
	22 11 16 00-0056	EA		4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow ..... <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	646.81 -80.84 32.37	71.95
<b>22 11 16 00-0057</b>	<b>Galvanized Malleable Iron 45 Degree Elbow</b> <small>(22 11 16 00-0013)</small>					
	22 11 16 00-0058	EA		1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	35.98 25.94 -1.07 8.66	19.27
	22 11 16 00-0059	EA		3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	42.55 36.79 -1.54 9.69	21.54
	22 11 16 00-0060	EA		1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	47.64 41.47 -1.73 10.82	24.03
	22 11 16 00-0061	EA		1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	62.45 75.92 -3.24 12.25	27.28
	22 11 16 00-0062	EA		1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	71.44 89.09 -3.81 13.82	30.73
	22 11 16 00-0063	EA		2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	96.07 131.25 -5.64 17.55	39.07
	22 11 16 00-0064	EA		2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	217.28 449.57 -19.61 25.97	57.79
	22 11 16 00-0065	EA		3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	304.01 653.14 -28.51 34.18	75.98
	22 11 16 00-0066	EA		4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	432.13 1,090.35 -47.80 34.03	75.65
	22 11 16 00-0067	EA		5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,406.14 4,385.49 -193.16 35.51	78.95
	22 11 16 00-0068	EA		6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,676.50 5,286.74 -232.91 37.13	82.55
<b>22 11 16 00-0069</b>	<b>Galvanized Malleable Iron Tees</b> <small>(22 11 16 00-0013)</small>					
	22 11 16 00-0070	EA		1/2", 150 LB, Galvanized Malleable Iron Tee ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	41.91 21.99 -0.87 10.82	24.03
	22 11 16 00-0071	EA		3/4", 150 LB, Galvanized Malleable Iron Tee ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	51.25 35.21 -1.44 12.49	27.82
	22 11 16 00-0072	EA		1", 150 LB, Galvanized Malleable Iron Tee ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	64.75 55.82 -2.33 14.76	32.79
	22 11 16 00-0073	EA		1-1/4", 150 LB, Galvanized Malleable Iron Tee ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	83.19 87.46 -3.70 17.55	39.07
	22 11 16 00-0074	EA		1-1/2", 150 LB, Galvanized Malleable Iron Tee ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	100.50 108.50 -4.60 20.95	46.53
	22 11 16 00-0075	EA		2", 150 LB, Galvanized Malleable Iron Tee ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	136.45 174.75 -7.48 25.97	57.79
	22 11 16 00-0076	EA		2-1/2", 150 LB, Galvanized Malleable Iron Tee ..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	234.52 483.04 -21.06 28.23	62.77

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0077	EA		3", 150 LB, Galvanized Malleable Iron Tee.....	278.58	75.98
			<i>For 300 LB Rating, Add</i>	566.68	
			<i>For ASTM 120, Deduct</i>	-24.70	
			<i>For Work In Restricted Working Space, Add</i>	34.18	
22 11 16 00-0078	EA		4", 150 LB, Galvanized Malleable Iron Tee.....	532.82	95.58
			<i>For 300 LB Rating, Add</i>	1,332.97	
			<i>For ASTM 120, Deduct</i>	-58.43	
			<i>For Work In Restricted Working Space, Add</i>	42.99	
22 11 16 00-0079	EA		5", 150 LB, Galvanized Malleable Iron Tee.....	1,394.58	113.48
			<i>For 300 LB Rating, Add</i>	4,173.20	
			<i>For ASTM 120, Deduct</i>	-183.66	
			<i>For Work In Restricted Working Space, Add</i>	51.05	
22 11 16 00-0080	EA		6", 150 LB, Galvanized Malleable Iron Tee.....	1,583.24	129.72
			<i>For 300 LB Rating, Add</i>	4,733.49	
			<i>For ASTM 120, Deduct</i>	-208.32	
			<i>For Work In Restricted Working Space, Add</i>	58.34	
<b>22 11 16 00-0081</b>			<b>Galvanized Malleable Iron Reducing Tee</b> (22 11 16 00-0013)		
22 11 16 00-0082	EA		1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	49.64	24.03
			<i>For 300 LB Rating, Add</i>	48.27	
			<i>For ASTM 120, Deduct</i>	-2.03	
			<i>For Work In Restricted Working Space, Add</i>	10.82	
22 11 16 00-0083	EA		3/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	55.00	27.82
			<i>For 300 LB Rating, Add</i>	47.96	
			<i>For ASTM 120, Deduct</i>	-2.01	
			<i>For Work In Restricted Working Space, Add</i>	12.49	
22 11 16 00-0084	EA		1", 150 LB, Galvanized Malleable Iron Reducing Tee.....	67.99	32.79
			<i>For 300 LB Rating, Add</i>	66.84	
			<i>For ASTM 120, Deduct</i>	-2.82	
			<i>For Work In Restricted Working Space, Add</i>	14.76	
22 11 16 00-0085	EA		1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	87.64	39.07
			<i>For 300 LB Rating, Add</i>	102.59	
			<i>For ASTM 120, Deduct</i>	-4.37	
			<i>For Work In Restricted Working Space, Add</i>	17.55	
22 11 16 00-0086	EA		1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	105.81	46.53
			<i>For 300 LB Rating, Add</i>	126.56	
			<i>For ASTM 120, Deduct</i>	-5.40	
			<i>For Work In Restricted Working Space, Add</i>	20.95	
22 11 16 00-0087	EA		2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	139.12	57.79
			<i>For 300 LB Rating, Add</i>	183.83	
			<i>For ASTM 120, Deduct</i>	-7.88	
			<i>For Work In Restricted Working Space, Add</i>	25.97	
22 11 16 00-0088	EA		2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee.....	279.98	62.98
			<i>For 300 LB Rating, Add</i>	636.64	
			<i>For ASTM 120, Deduct</i>	-27.84	
			<i>For Work In Restricted Working Space, Add</i>	28.32	
22 11 16 00-0089	EA		3", 150 LB, Galvanized Malleable Iron Reducing Tee.....	356.41	77.17
			<i>For 300 LB Rating, Add</i>	825.26	
			<i>For ASTM 120, Deduct</i>	-36.10	
			<i>For Work In Restricted Working Space, Add</i>	34.72	
22 11 16 00-0090	EA		4", 150 LB, Galvanized Malleable Iron Reducing Tee.....	841.00	95.58
			<i>For 300 LB Rating, Add</i>	2,380.78	
			<i>For ASTM 120, Deduct</i>	-104.66	
			<i>For Work In Restricted Working Space, Add</i>	42.99	
22 11 16 00-0091	EA		5", 150 LB, Galvanized Malleable Iron Reducing Tee.....	1,788.47	113.48
			<i>For 300 LB Rating, Add</i>	5,512.43	
			<i>For ASTM 120, Deduct</i>	-242.75	
			<i>For Work In Restricted Working Space, Add</i>	51.05	
22 11 16 00-0092	EA		6", 150 LB, Galvanized Malleable Iron Reducing Tee.....	2,029.99	129.72
			<i>For 300 LB Rating, Add</i>	6,252.44	
			<i>For ASTM 120, Deduct</i>	-275.33	
			<i>For Work In Restricted Working Space, Add</i>	58.34	
<b>22 11 16 00-0093</b>			<b>Galvanized Malleable Iron Couplings</b> (22 11 16 00-0013)		
22 11 16 00-0094	EA		1/2", 150 LB, Galvanized Malleable Iron Coupling.....	35.46	19.27
			<i>For 300 LB Rating, Add</i>	24.17	
			<i>For ASTM 120, Deduct</i>	-0.99	
			<i>For Work In Restricted Working Space, Add</i>	8.66	
22 11 16 00-0095	EA		3/4", 150 LB, Galvanized Malleable Iron Coupling.....	39.90	21.54
			<i>For 300 LB Rating, Add</i>	27.78	
			<i>For ASTM 120, Deduct</i>	-1.14	
			<i>For Work In Restricted Working Space, Add</i>	9.69	
22 11 16 00-0096	EA		1", 150 LB, Galvanized Malleable Iron Coupling.....	48.54	24.03
			<i>For 300 LB Rating, Add</i>	44.53	
			<i>For ASTM 120, Deduct</i>	-1.87	
			<i>For Work In Restricted Working Space, Add</i>	10.82	
22 11 16 00-0097	EA		1-1/4", 150 LB, Galvanized Malleable Iron Coupling.....	58.41	27.28
			<i>For 300 LB Rating, Add</i>	62.19	
			<i>For ASTM 120, Deduct</i>	-2.64	
			<i>For Work In Restricted Working Space, Add</i>	12.25	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
	22 11 16 00-0098	EA		1-1/2", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	66.02 70.66 -3.00 13.82	30.73	
	22 11 16 00-0099	EA		2", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	87.70 102.79 -4.38 17.55	39.07	
	22 11 16 00-0100	EA		2-1/2", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	175.96 309.09 -13.41 25.97	57.79	
	22 11 16 00-0101	EA		3", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	233.38 413.00 -17.92 34.18	75.98	
	22 11 16 00-0102	EA		4", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	367.15 869.42 -38.06 34.03	75.65	
	22 11 16 00-0103	EA		5", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	832.78 2,436.06 -107.16 35.51	78.95	
	22 11 16 00-0104	EA		6", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	937.66 2,774.69 -122.09 37.13	82.55	
	22 11 16 00-0105	<b>Galvanized Malleable Iron Reducing Couplings</b> <small>(22 11 16 00-0013)</small>					
	22 11 16 00-0106	EA		1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	36.86 28.93 -1.20 8.66	19.27	
	22 11 16 00-0107	EA		3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.85 31.01 -1.28 9.69	21.54	
	22 11 16 00-0108	EA		1", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	50.34 50.65 -2.14 10.82	24.03	
	22 11 16 00-0109	EA		1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	59.28 65.15 -2.77 12.25	27.28	
	22 11 16 00-0110	EA		1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	69.83 83.62 -3.57 13.82	30.73	
	22 11 16 00-0111	EA		2", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	90.94 113.81 -4.87 17.55	39.07	
	22 11 16 00-0112	EA		2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	177.09 312.93 -13.58 25.97	57.79	
	22 11 16 00-0113	EA		3", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	230.00 401.51 -17.41 34.18	75.98	
	22 11 16 00-0114	EA		4", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	373.69 891.66 -39.04 34.03	75.65	
	22 11 16 00-0115	EA		5", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	870.39 2,563.94 -112.80 35.51	78.95	
	22 11 16 00-0116	EA		6", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	980.49 2,920.31 -128.51 37.13	82.55	
	22 11 16 00-0117	<b>Galvanized Malleable Iron Caps</b> <small>(22 11 16 00-0013)</small>					
	22 11 16 00-0118	EA		1/2", 150 LB, Galvanized Malleable Iron Cap..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	18.52 17.78 -0.75 4.06	8.98	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0119	EA	3/4"	150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.34 24.36 -1.04 4.33	9.63
22 11 16 00-0120	EA	1"	150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	25.22 30.14 -1.29 5.00	11.15
22 11 16 00-0121	EA	1-1/4"	150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	28.74 39.40 -1.69 5.24	11.69
22 11 16 00-0122	EA	1-1/2"	150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	31.91 50.18 -2.17 5.24	11.69
22 11 16 00-0123	EA	2"	150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	43.51 70.18 -3.03 6.98	15.48
22 11 16 00-0124	EA	2-1/2"	150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	87.63 201.55 -8.82 8.66	19.27
22 11 16 00-0125	EA	3"	150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	106.13 244.24 -10.68 10.47	23.27
22 11 16 00-0126	EA	4"	150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	196.25 537.36 -23.60 11.67	25.97
22 11 16 00-0127	EA	5"	150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	470.80 1,438.33 -63.33 14.59	32.47
22 11 16 00-0128	EA	6"	150 LB, Galvanized Malleable Iron Cap <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	591.48 1,817.55 -80.03 17.38	38.60
<b>22 11 16 00-0129</b>			<b>Galvanized Malleable Iron Unions</b> (22 11 16 00-0013)		
22 11 16 00-0130	EA	1/2"	150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	55.58 10.82	24.03
22 11 16 00-0131	EA	3/4"	150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	64.04 12.49	27.82
22 11 16 00-0132	EA	1"	150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	78.55 14.76	32.79
22 11 16 00-0133	EA	1-1/4"	150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	100.93 17.55	39.07
22 11 16 00-0134	EA	1-1/2"	150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	121.24 20.95	46.53
22 11 16 00-0135	EA	2"	150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	145.68 25.97	57.79
22 11 16 00-0136	EA	2-1/2"	150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	333.13 38.34	85.18
22 11 16 00-0137	EA	3"	150 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	455.54 50.45	112.01
22 11 16 00-0138	EA	1/2"	250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	75.73 10.82	24.03
22 11 16 00-0139	EA	3/4"	250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	77.67 12.49	27.82
22 11 16 00-0140	EA	1"	250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	93.87 14.76	32.79
22 11 16 00-0141	EA	1-1/4"	250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	126.15 17.55	39.07
22 11 16 00-0142	EA	1-1/2"	250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	147.72 20.95	46.53
22 11 16 00-0143	EA	2"	250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	196.58 25.97	57.79
22 11 16 00-0144	EA	2-1/2"	250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	417.19 38.35	85.18
22 11 16 00-0145	EA	3"	250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	612.15 50.45	112.01
22 11 16 00-0146	EA	4"	250 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	863.91 50.24	111.63
22 11 16 00-0147	EA	1/2"	300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	81.26 10.82	24.03
22 11 16 00-0148	EA	3/4"	300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	90.64 12.49	27.82
22 11 16 00-0149	EA	1"	300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	114.20 14.76	32.79
22 11 16 00-0150	EA	1-1/4"	300 LB, Galvanized Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	149.14 17.55	39.07



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0151	EA		1-1/2", 300 LB, Galvanized Malleable Iron Union ..... <i>For Work In Restricted Working Space, Add</i>	178.98 20.95	46.53
22 11 16 00-0152	EA		2", 300 LB, Galvanized Malleable Iron Union ..... <i>For Work In Restricted Working Space, Add</i>	217.59 25.97	57.79
22 11 16 00-0153	EA		2-1/2", 300 LB, Galvanized Malleable Iron Union ..... <i>For Work In Restricted Working Space, Add</i>	493.27 38.35	85.18
22 11 16 00-0154	EA		3", 300 LB, Galvanized Malleable Iron Union ..... <i>For Work In Restricted Working Space, Add</i>	786.24 50.45	112.01
22 11 16 00-0155	EA		4", 300 LB, Galvanized Malleable Iron Union ..... <i>For Work In Restricted Working Space, Add</i>	1,717.60 50.24	111.63
<b>22 11 16 00-0156</b>			<b>Galvanized Steel Nipples</b> <small>(22 11 16 00-0013)</small> Note: ASTM A-53.		
22 11 16 00-0157	EA		3/8" x Close, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.71 1.43 -0.19 4.64	10.28
22 11 16 00-0158	EA		1/2" x Close, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.47 1.15 -0.15 4.64	10.28
22 11 16 00-0159	EA		3/4" x Close, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.69 1.40 -0.18 4.64	10.28
22 11 16 00-0160	EA		1" x Close, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	18.34 1.93 -0.25 5.00	11.15
22 11 16 00-0161	EA		1-1/4" x Close, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	20.31 2.59 -0.34 5.41	12.01
22 11 16 00-0162	EA		1-1/2" x Close, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	20.70 3.03 -0.40 5.41	12.01
22 11 16 00-0163	EA		2" x Close, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.03 4.28 -0.56 6.98	15.48
22 11 16 00-0164	EA		2-1/2" x Close, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.01 12.71 -1.67 8.66	19.27
22 11 16 00-0165	EA		3" x Close, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	48.27 15.23 -2.00 10.47	23.27
22 11 16 00-0166	EA		4" x Close, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	58.92 22.83 -3.00 11.67	25.97
22 11 16 00-0167	EA		3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.90 1.64 -0.22 4.64	10.28
22 11 16 00-0168	EA		1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.53 1.22 -0.16 4.64	10.28
22 11 16 00-0169	EA		3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.80 1.53 -0.20 4.64	10.28
22 11 16 00-0170	EA		3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.90 1.64 -0.22 4.64	10.28
22 11 16 00-0171	EA		1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.53 1.22 -0.16 4.64	10.28
22 11 16 00-0172	EA		3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.80 1.53 -0.20 4.64	10.28
22 11 16 00-0173	EA		1" x 2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	18.64 2.27 -0.30 5.00	11.15
22 11 16 00-0174	EA		1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	20.47 2.77 -0.36 5.41	12.01

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0175	EA	1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	20.89 3.25 -0.43 5.41	12.01
22 11 16 00-0176	EA	3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	17.38 2.19 -0.29 4.64	10.28
22 11 16 00-0177	EA	1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.71 1.43 -0.19 4.64	10.28
22 11 16 00-0178	EA	3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.94 1.69 -0.22 4.64	10.28
22 11 16 00-0179	EA	1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	18.81 2.46 -0.32 5.00	11.15
22 11 16 00-0180	EA	1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	20.71 3.04 -0.40 5.41	12.01
22 11 16 00-0181	EA	1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.22 3.63 -0.48 5.41	12.01
22 11 16 00-0182	EA	2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.49 4.80 -0.63 6.98	15.48
22 11 16 00-0183	EA	3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	17.38 2.19 -0.29 4.64	10.28
22 11 16 00-0184	EA	1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.71 1.43 -0.19 4.64	10.28
22 11 16 00-0185	EA	3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	16.94 1.69 -0.22 4.64	10.28
22 11 16 00-0186	EA	1" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	18.81 2.46 -0.32 5.00	11.15
22 11 16 00-0187	EA	1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	20.71 3.04 -0.40 5.41	12.01
22 11 16 00-0188	EA	1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.22 3.63 -0.48 5.41	12.01
22 11 16 00-0189	EA	2" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	27.49 4.80 -0.63 6.98	15.48
22 11 16 00-0190	EA	2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	40.44 13.20 -1.74 8.66	19.27
22 11 16 00-0191	EA	3" x 3" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	50.11 17.33 -2.28 10.47	23.27
22 11 16 00-0192	EA	3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	17.74 2.60 -0.34 4.64	10.28
22 11 16 00-0193	EA	1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	17.01 1.77 -0.23 4.64	10.28
22 11 16 00-0194	EA	3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	17.38 2.19 -0.29 4.64	10.28
22 11 16 00-0195	EA	1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	19.24 2.95 -0.39 5.00	11.15





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0196	EA		1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.22 3.63 -0.48 5.41	12.01
22 11 16 00-0197	EA		1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.06 4.58 -0.60 5.41	12.01
22 11 16 00-0198	EA		2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	28.40 5.84 -0.77 6.98	15.48
22 11 16 00-0199	EA		2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	42.30 15.32 -2.02 8.66	19.27
22 11 16 00-0200	EA		3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	52.75 20.34 -2.68 10.47	23.27
22 11 16 00-0201	EA		3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	17.74 2.60 -0.34 4.64	10.28
22 11 16 00-0202	EA		1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	17.01 1.77 -0.23 4.64	10.28
22 11 16 00-0203	EA		3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	17.74 2.60 -0.34 4.64	10.28
22 11 16 00-0204	EA		1" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	19.24 2.95 -0.39 5.00	11.15
22 11 16 00-0205	EA		1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.22 3.63 -0.48 5.41	12.01
22 11 16 00-0206	EA		1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.06 4.58 -0.60 5.41	12.01
22 11 16 00-0207	EA		2" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	28.44 5.88 -0.77 6.98	15.48
22 11 16 00-0208	EA		2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	42.30 15.32 -2.02 8.66	19.27
22 11 16 00-0209	EA		3" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	52.75 20.34 -2.68 10.47	23.27
22 11 16 00-0210	EA		4" x 4" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	62.84 27.30 -3.59 11.67	25.97
22 11 16 00-0211	EA		3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	18.60 3.58 -0.47 4.64	10.28
22 11 16 00-0212	EA		1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	17.32 2.12 -0.28 4.64	10.28
22 11 16 00-0213	EA		3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	17.75 2.61 -0.34 4.64	10.28
22 11 16 00-0214	EA		1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	19.83 3.63 -0.48 5.00	11.15
22 11 16 00-0215	EA		1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.97 4.48 -0.59 5.41	12.01
22 11 16 00-0216	EA		1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple ..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	22.90 5.54 -0.73 5.41	12.01

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0217	EA		2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	29.81	15.48
			<i>For Schedule 80 Nipples, Add</i>	7.44	
			<i>For ASTM 120, Deduct</i>	-0.98	
			<i>For Work In Restricted Working Space, Add</i>	6.98	
22 11 16 00-0218	EA		2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	43.85	19.27
			<i>For Schedule 80 Nipples, Add</i>	17.09	
			<i>For ASTM 120, Deduct</i>	-2.25	
			<i>For Work In Restricted Working Space, Add</i>	8.66	
22 11 16 00-0219	EA		3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	55.70	23.27
			<i>For Schedule 80 Nipples, Add</i>	23.70	
			<i>For ASTM 120, Deduct</i>	-3.12	
			<i>For Work In Restricted Working Space, Add</i>	10.47	
22 11 16 00-0220	EA		4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple .....	65.75	25.97
			<i>For Schedule 80 Nipples, Add</i>	30.62	
			<i>For ASTM 120, Deduct</i>	-4.03	
			<i>For Work In Restricted Working Space, Add</i>	11.67	
22 11 16 00-0221	EA		3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	18.60	10.28
			<i>For Schedule 80 Nipples, Add</i>	3.58	
			<i>For ASTM 120, Deduct</i>	-0.47	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0222	EA		1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	17.32	10.28
			<i>For Schedule 80 Nipples, Add</i>	2.12	
			<i>For ASTM 120, Deduct</i>	-0.28	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0223	EA		3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	17.75	10.28
			<i>For Schedule 80 Nipples, Add</i>	2.61	
			<i>For ASTM 120, Deduct</i>	-0.34	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0224	EA		1" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	19.83	11.15
			<i>For Schedule 80 Nipples, Add</i>	3.63	
			<i>For ASTM 120, Deduct</i>	-0.48	
			<i>For Work In Restricted Working Space, Add</i>	5.00	
22 11 16 00-0225	EA		1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple .....	21.97	12.01
			<i>For Schedule 80 Nipples, Add</i>	4.48	
			<i>For ASTM 120, Deduct</i>	-0.59	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
22 11 16 00-0226	EA		1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple .....	22.90	12.01
			<i>For Schedule 80 Nipples, Add</i>	5.54	
			<i>For ASTM 120, Deduct</i>	-0.73	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
22 11 16 00-0227	EA		2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	29.81	15.48
			<i>For Schedule 80 Nipples, Add</i>	7.44	
			<i>For ASTM 120, Deduct</i>	-0.98	
			<i>For Work In Restricted Working Space, Add</i>	6.98	
22 11 16 00-0228	EA		2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple .....	43.85	19.27
			<i>For Schedule 80 Nipples, Add</i>	17.09	
			<i>For ASTM 120, Deduct</i>	-2.25	
			<i>For Work In Restricted Working Space, Add</i>	8.66	
22 11 16 00-0229	EA		3" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	55.70	23.27
			<i>For Schedule 80 Nipples, Add</i>	23.70	
			<i>For ASTM 120, Deduct</i>	-3.12	
			<i>For Work In Restricted Working Space, Add</i>	10.47	
22 11 16 00-0230	EA		4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	65.75	25.97
			<i>For Schedule 80 Nipples, Add</i>	30.62	
			<i>For ASTM 120, Deduct</i>	-4.03	
			<i>For Work In Restricted Working Space, Add</i>	11.67	
22 11 16 00-0231	EA		3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	18.94	10.28
			<i>For Schedule 80 Nipples, Add</i>	3.97	
			<i>For ASTM 120, Deduct</i>	-0.52	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0232	EA		1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	17.57	10.28
			<i>For Schedule 80 Nipples, Add</i>	2.41	
			<i>For ASTM 120, Deduct</i>	-0.32	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0233	EA		3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	18.20	10.28
			<i>For Schedule 80 Nipples, Add</i>	3.12	
			<i>For ASTM 120, Deduct</i>	-0.41	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0234	EA		1" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	20.25	11.15
			<i>For Schedule 80 Nipples, Add</i>	4.10	
			<i>For ASTM 120, Deduct</i>	-0.54	
			<i>For Work In Restricted Working Space, Add</i>	5.00	
22 11 16 00-0235	EA		1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple .....	22.60	12.01
			<i>For Schedule 80 Nipples, Add</i>	5.20	
			<i>For ASTM 120, Deduct</i>	-0.68	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
22 11 16 00-0236	EA		1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple .....	23.51	12.01
			<i>For Schedule 80 Nipples, Add</i>	6.24	
			<i>For ASTM 120, Deduct</i>	-0.82	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
22 11 16 00-0237	EA		2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	30.87	15.48
			<i>For Schedule 80 Nipples, Add</i>	8.65	
			<i>For ASTM 120, Deduct</i>	-1.14	
			<i>For Work In Restricted Working Space, Add</i>	6.98	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0238	EA		2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple	45.33	19.27
			<i>For Schedule 80 Nipples, Add</i>	18.78	
			<i>For ASTM 120, Deduct</i>	-2.47	
			<i>For Work In Restricted Working Space, Add</i>	8.66	
22 11 16 00-0239	EA		3" x 6" Long, Schedule 40 Galvanized Steel Nipple	56.90	23.27
			<i>For Schedule 80 Nipples, Add</i>	25.07	
			<i>For ASTM 120, Deduct</i>	-3.30	
			<i>For Work In Restricted Working Space, Add</i>	10.47	
22 11 16 00-0240	EA		4" x 6" Long, Schedule 40 Galvanized Steel Nipple	68.58	25.97
			<i>For Schedule 80 Nipples, Add</i>	33.85	
			<i>For ASTM 120, Deduct</i>	-4.45	
			<i>For Work In Restricted Working Space, Add</i>	11.67	
22 11 16 00-0241	EA		3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple	29.39	10.28
			<i>For Schedule 80 Nipples, Add</i>	15.88	
			<i>For ASTM 120, Deduct</i>	-2.09	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0242	EA		1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	19.18	10.28
			<i>For Schedule 80 Nipples, Add</i>	4.24	
			<i>For ASTM 120, Deduct</i>	-0.56	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0243	EA		3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	20.22	10.28
			<i>For Schedule 80 Nipples, Add</i>	5.43	
			<i>For ASTM 120, Deduct</i>	-0.71	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0244	EA		1" x 8" Long, Schedule 40 Galvanized Steel Nipple	22.68	11.15
			<i>For Schedule 80 Nipples, Add</i>	6.87	
			<i>For ASTM 120, Deduct</i>	-0.90	
			<i>For Work In Restricted Working Space, Add</i>	5.00	
22 11 16 00-0245	EA		1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple	25.43	12.01
			<i>For Schedule 80 Nipples, Add</i>	8.42	
			<i>For ASTM 120, Deduct</i>	-1.11	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
22 11 16 00-0246	EA		1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	26.52	12.01
			<i>For Schedule 80 Nipples, Add</i>	9.67	
			<i>For ASTM 120, Deduct</i>	-1.27	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
22 11 16 00-0247	EA		2" x 8" Long, Schedule 40 Galvanized Steel Nipple	35.65	15.48
			<i>For Schedule 80 Nipples, Add</i>	14.10	
			<i>For ASTM 120, Deduct</i>	-1.86	
			<i>For Work In Restricted Working Space, Add</i>	6.98	
22 11 16 00-0248	EA		2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple	50.05	19.27
			<i>For Schedule 80 Nipples, Add</i>	24.16	
			<i>For ASTM 120, Deduct</i>	-3.18	
			<i>For Work In Restricted Working Space, Add</i>	8.66	
22 11 16 00-0249	EA		3" x 8" Long, Schedule 40 Galvanized Steel Nipple	64.53	23.27
			<i>For Schedule 80 Nipples, Add</i>	33.77	
			<i>For ASTM 120, Deduct</i>	-4.44	
			<i>For Work In Restricted Working Space, Add</i>	10.47	
22 11 16 00-0250	EA		4" x 8" Long, Schedule 40 Galvanized Steel Nipple	74.32	25.97
			<i>For Schedule 80 Nipples, Add</i>	40.39	
			<i>For ASTM 120, Deduct</i>	-5.31	
			<i>For Work In Restricted Working Space, Add</i>	11.67	
22 11 16 00-0251	EA		3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple	22.10	10.28
			<i>For Schedule 80 Nipples, Add</i>	7.57	
			<i>For ASTM 120, Deduct</i>	-1.00	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0252	EA		1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	19.88	10.28
			<i>For Schedule 80 Nipples, Add</i>	5.04	
			<i>For ASTM 120, Deduct</i>	-0.66	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0253	EA		3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple	20.74	10.28
			<i>For Schedule 80 Nipples, Add</i>	6.02	
			<i>For ASTM 120, Deduct</i>	-0.79	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0254	EA		1" x 10" Long, Schedule 40 Galvanized Steel Nipple	23.54	11.15
			<i>For Schedule 80 Nipples, Add</i>	7.85	
			<i>For ASTM 120, Deduct</i>	-1.03	
			<i>For Work In Restricted Working Space, Add</i>	5.00	
22 11 16 00-0255	EA		1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple	26.88	12.01
			<i>For Schedule 80 Nipples, Add</i>	10.08	
			<i>For ASTM 120, Deduct</i>	-1.33	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
22 11 16 00-0256	EA		1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	27.93	12.01
			<i>For Schedule 80 Nipples, Add</i>	11.27	
			<i>For ASTM 120, Deduct</i>	-1.48	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
22 11 16 00-0257	EA		2" x 10" Long, Schedule 40 Galvanized Steel Nipple	37.75	15.48
			<i>For Schedule 80 Nipples, Add</i>	16.50	
			<i>For ASTM 120, Deduct</i>	-2.17	
			<i>For Work In Restricted Working Space, Add</i>	6.98	
22 11 16 00-0258	EA		2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple	53.02	19.27
			<i>For Schedule 80 Nipples, Add</i>	27.54	
			<i>For ASTM 120, Deduct</i>	-3.62	
			<i>For Work In Restricted Working Space, Add</i>	8.66	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0259	EA		3" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	68.70	23.27
			<i>For Schedule 80 Nipples, Add</i>	38.52	
			<i>For ASTM 120, Deduct</i>	-5.07	
			<i>For Work In Restricted Working Space, Add</i>	10.47	
22 11 16 00-0260	EA		4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	79.95	25.97
			<i>For Schedule 80 Nipples, Add</i>	46.81	
			<i>For ASTM 120, Deduct</i>	-6.16	
			<i>For Work In Restricted Working Space, Add</i>	11.67	
22 11 16 00-0261	EA		3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	22.82	10.28
			<i>For Schedule 80 Nipples, Add</i>	8.39	
			<i>For ASTM 120, Deduct</i>	-1.10	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0262	EA		1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	20.49	10.28
			<i>For Schedule 80 Nipples, Add</i>	5.73	
			<i>For ASTM 120, Deduct</i>	-0.75	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0263	EA		3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	21.38	10.28
			<i>For Schedule 80 Nipples, Add</i>	6.75	
			<i>For ASTM 120, Deduct</i>	-0.89	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
22 11 16 00-0264	EA		1" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	24.68	11.15
			<i>For Schedule 80 Nipples, Add</i>	9.15	
			<i>For ASTM 120, Deduct</i>	-1.20	
			<i>For Work In Restricted Working Space, Add</i>	5.00	
22 11 16 00-0265	EA		1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple .....	28.66	12.01
			<i>For Schedule 80 Nipples, Add</i>	12.11	
			<i>For ASTM 120, Deduct</i>	-1.59	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
22 11 16 00-0266	EA		1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple .....	29.36	12.01
			<i>For Schedule 80 Nipples, Add</i>	12.90	
			<i>For ASTM 120, Deduct</i>	-1.70	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
22 11 16 00-0267	EA		2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	39.89	15.48
			<i>For Schedule 80 Nipples, Add</i>	18.94	
			<i>For ASTM 120, Deduct</i>	-2.49	
			<i>For Work In Restricted Working Space, Add</i>	6.98	
22 11 16 00-0268	EA		2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple .....	55.89	19.27
			<i>For Schedule 80 Nipples, Add</i>	30.81	
			<i>For ASTM 120, Deduct</i>	-4.05	
			<i>For Work In Restricted Working Space, Add</i>	8.66	
22 11 16 00-0269	EA		3" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	72.91	23.27
			<i>For Schedule 80 Nipples, Add</i>	43.32	
			<i>For ASTM 120, Deduct</i>	-5.70	
			<i>For Work In Restricted Working Space, Add</i>	10.47	
22 11 16 00-0270	EA		4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	85.63	25.97
			<i>For Schedule 80 Nipples, Add</i>	53.28	
			<i>For ASTM 120, Deduct</i>	-7.01	
			<i>For Work In Restricted Working Space, Add</i>	11.67	
<b>22 11 16 00-0271</b>			<b>Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)</b>		
22 11 16 00-0272	EA		1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	19.59	7.69
			<i>For 300 LB Rating, Add</i>	28.03	
			<i>For Work In Restricted Working Space, Add</i>	3.47	
22 11 16 00-0273	EA		3/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	20.96	8.65
			<i>For 300 LB Rating, Add</i>	28.11	
			<i>For Work In Restricted Working Space, Add</i>	3.88	
22 11 16 00-0274	EA		1", 150 LB, Galvanized Malleable Iron Square Head Plug.....	23.24	9.63
			<i>For 300 LB Rating, Add</i>	30.85	
			<i>For Work In Restricted Working Space, Add</i>	4.33	
22 11 16 00-0275	EA		1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	29.89	10.93
			<i>For 300 LB Rating, Add</i>	47.08	
			<i>For Work In Restricted Working Space, Add</i>	4.90	
22 11 16 00-0276	EA		1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	36.68	12.23
			<i>For 300 LB Rating, Add</i>	63.19	
			<i>For Work In Restricted Working Space, Add</i>	5.53	
22 11 16 00-0277	EA		2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	46.62	15.59
			<i>For 300 LB Rating, Add</i>	80.35	
			<i>For Work In Restricted Working Space, Add</i>	7.02	
22 11 16 00-0278	EA		2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug.....	79.92	23.06
			<i>For 300 LB Rating, Add</i>	156.06	
			<i>For Work In Restricted Working Space, Add</i>	10.39	
22 11 16 00-0279	EA		3", 150 LB, Galvanized Malleable Iron Square Head Plug.....	109.84	30.41
			<i>For 300 LB Rating, Add</i>	221.22	
			<i>For Work In Restricted Working Space, Add</i>	13.67	
22 11 16 00-0280	EA		4", 150 LB, Galvanized Malleable Iron Square Head Plug.....	178.79	30.24
			<i>For 300 LB Rating, Add</i>	456.32	
			<i>For Work In Restricted Working Space, Add</i>	13.61	
22 11 16 00-0281	EA		5", 150 LB, Galvanized Malleable Iron Square Head Plug.....	292.12	31.60
			<i>For 300 LB Rating, Add</i>	835.06	
			<i>For Work In Restricted Working Space, Add</i>	14.21	
22 11 16 00-0282	EA		6", 150 LB, Galvanized Malleable Iron Square Head Plug.....	314.12	32.97
			<i>For 300 LB Rating, Add</i>	902.64	
			<i>For Work In Restricted Working Space, Add</i>	14.85	



	<b>Plumbing 22</b>
	<b>Plumbing Piping 22 10</b>
	<b>Facility Water Distribution 22 11</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 11 16 00-0283 Galvanized Malleable Iron Bushing</b> <small>(22 11 16 00-0013)</small>					
	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	41.48	20.34
			<i>For Work In Restricted Working Space, Add</i>	9.17	
	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	45.51	21.65
			<i>For Work In Restricted Working Space, Add</i>	9.74	
	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	46.55	22.83
			<i>For Work In Restricted Working Space, Add</i>	10.26	
	EA		1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	53.10	23.27
			<i>For Work In Restricted Working Space, Add</i>	10.45	
	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	53.18	24.35
			<i>For Work In Restricted Working Space, Add</i>	10.97	
	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	55.06	25.65
			<i>For Work In Restricted Working Space, Add</i>	11.54	
	EA		1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	61.59	25.00
			<i>For Work In Restricted Working Space, Add</i>	11.24	
	EA		1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	63.31	26.08
			<i>For Work In Restricted Working Space, Add</i>	11.75	
	EA		1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	62.82	27.38
			<i>For Work In Restricted Working Space, Add</i>	12.32	
	EA		1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	63.52	29.00
			<i>For Work In Restricted Working Space, Add</i>	13.03	
	EA		2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing.....	73.82	29.12
			<i>For Work In Restricted Working Space, Add</i>	13.10	
	EA		2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	73.45	30.30
			<i>For Work In Restricted Working Space, Add</i>	13.62	
	EA		2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	73.81	31.50
			<i>For Work In Restricted Working Space, Add</i>	14.19	
	EA		2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	76.19	33.12
			<i>For Work In Restricted Working Space, Add</i>	14.90	
	EA		2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	75.53	34.84
			<i>For Work In Restricted Working Space, Add</i>	15.68	
	EA		2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	103.06	39.61
			<i>For Work In Restricted Working Space, Add</i>	17.84	
	EA		2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	104.95	40.91
			<i>For Work In Restricted Working Space, Add</i>	18.40	
	EA		2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	107.32	42.42
			<i>For Work In Restricted Working Space, Add</i>	19.11	
	EA		2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	109.13	44.26
			<i>For Work In Restricted Working Space, Add</i>	19.90	
	EA		2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing.....	110.47	48.38
			<i>For Work In Restricted Working Space, Add</i>	21.76	
	EA		3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	130.69	48.70
			<i>For Work In Restricted Working Space, Add</i>	21.94	
	EA		3" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	132.57	50.00
			<i>For Work In Restricted Working Space, Add</i>	22.50	
	EA		3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	134.96	51.63
			<i>For Work In Restricted Working Space, Add</i>	23.22	
	EA		3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	136.43	53.36
			<i>For Work In Restricted Working Space, Add</i>	24.00	
	EA		3" x 2", 150 LB, Galvanized Malleable Iron Bushing.....	137.39	57.47
			<i>For Work In Restricted Working Space, Add</i>	25.86	
	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	154.40	66.88
			<i>For Work In Restricted Working Space, Add</i>	30.08	
	EA		4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing.....	191.91	47.45
			<i>For Work In Restricted Working Space, Add</i>	21.37	
	EA		4" x 1", 150 LB, Galvanized Malleable Iron Bushing.....	193.60	48.62
			<i>For Work In Restricted Working Space, Add</i>	21.88	
	EA		4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing.....	195.74	50.08
			<i>For Work In Restricted Working Space, Add</i>	22.52	
	EA		4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	198.08	51.63
			<i>For Work In Restricted Working Space, Add</i>	23.22	
	EA		4" x 2", 150 LB, Galvanized Malleable Iron Bushing.....	189.46	55.33
			<i>For Work In Restricted Working Space, Add</i>	24.90	
	EA		4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing.....	216.28	63.79
			<i>For Work In Restricted Working Space, Add</i>	28.68	
	EA		4" x 3", 150 LB, Galvanized Malleable Iron Bushing.....	220.60	71.95
			<i>For Work In Restricted Working Space, Add</i>	32.37	
<b>22 11 16 00-0317 Galvanized Malleable Iron Floor Flange</b> <small>(22 11 16 00-0013)</small>					
	EA		1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	75.91	39.55
	EA		3/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	82.83	43.29
	EA		1", 150 LB, Galvanized Malleable Iron Floor Flange.....	96.63	48.91
	EA		1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange.....	100.80	50.65
	EA		1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange.....	109.74	55.09
	EA		2", 150 LB, Galvanized Malleable Iron Floor Flange.....	121.59	57.47
<b>22 11 16 00-0324 Galvanized Cast Iron Flanges</b> <small>(22 11 16 00-0013)</small>					
	EA		3/4", 125 LB, Galvanized Cast Iron Flange.....	204.52	43.29
			<i>For Work In Restricted Working Space, Add</i>	19.48	
	EA		1", 125 LB, Galvanized Cast Iron Flange.....	181.46	48.91
			<i>For Work In Restricted Working Space, Add</i>	22.01	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0327	EA		1-1/4", 125 LB, Galvanized Cast Iron Flange.....	133.07	50.65
			<i>For Work In Restricted Working Space, Add</i>	22.78	
22 11 16 00-0328	EA		1-1/2", 125 LB, Galvanized Cast Iron Flange.....	209.56	55.09
			<i>For Work In Restricted Working Space, Add</i>	24.78	
22 11 16 00-0329	EA		2", 125 LB, Galvanized Cast Iron Flange.....	197.86	57.47
			<i>For Work In Restricted Working Space, Add</i>	25.87	
22 11 16 00-0330	EA		2-1/2", 125 LB, Galvanized Cast Iron Flange.....	230.33	66.56
			<i>For Work In Restricted Working Space, Add</i>	29.92	
22 11 16 00-0331	EA		3", 125 LB, Galvanized Cast Iron Flange.....	479.24	84.41
			<i>For Work In Restricted Working Space, Add</i>	37.97	
22 11 16 00-0332	EA		4", 125 LB, Galvanized Cast Iron Flange.....	371.70	103.75
			<i>For Work In Restricted Working Space, Add</i>	46.66	
22 11 16 00-0333	EA		5", 125 LB, Galvanized Cast Iron Flange.....	524.53	123.49
			<i>For Work In Restricted Working Space, Add</i>	55.55	
22 11 16 00-0334	EA		6", 125 LB, Galvanized Cast Iron Flange.....	575.43	141.87
			<i>For Work In Restricted Working Space, Add</i>	63.81	
<b>22 11 16 00-0335</b>			<b>Cut And Thread Existing In-Place Galvanized Steel Pipe</b> <small>(22 11 16 00-0013)</small>		
			Note: For use when connecting pipe to an existing in-place system.		
22 11 16 00-0336	EA		1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	35.27	
			<i>For Work In Restricted Working Space, Add</i>	10.58	
22 11 16 00-0337	EA		3/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	38.80	
			<i>For Work In Restricted Working Space, Add</i>	11.64	
22 11 16 00-0338	EA		1", Cut And Thread Existing In Place Galvanized Steel Pipe.....	42.33	
			<i>For Work In Restricted Working Space, Add</i>	12.70	
22 11 16 00-0339	EA		1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	45.86	
			<i>For Work In Restricted Working Space, Add</i>	13.76	
22 11 16 00-0340	EA		1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	48.21	
			<i>For Work In Restricted Working Space, Add</i>	14.46	
22 11 16 00-0341	EA		2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	50.57	
			<i>For Work In Restricted Working Space, Add</i>	15.17	
22 11 16 00-0342	EA		2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	52.92	
			<i>For Work In Restricted Working Space, Add</i>	15.88	
22 11 16 00-0343	EA		3", Cut And Thread Existing In Place Galvanized Steel Pipe.....	55.27	
			<i>For Work In Restricted Working Space, Add</i>	16.58	
22 11 16 00-0344	EA		4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	57.62	
			<i>For Work In Restricted Working Space, Add</i>	17.29	
<b>22 11 16 00-0345</b>			<b>Copper Pipe And Fittings</b> <small>(22 11 16)</small>		
			Note: Excludes hangers. See CSI section 22 11 16 00-0762 for pipe with fittings assembly.		
<b>22 11 16 00-0346</b>			<b>Copper Tube/Pipe</b> <small>(22 11 16 00-0345)</small>		
			Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
<b>22 11 16 00-0347</b>			<b>Hard Drawn Type L Copper Tube/Pipe</b> <small>(22 11 16 00-0346)</small>		
22 11 16 00-0348	LF		1/4" Hard Drawn Type L Copper Tube/Pipe.....	4.69	2.64
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.06	
			<i>For &lt;20, Add</i>	0.07	
			<i>For &gt;150, Deduct</i>	-0.15	
			<i>For Work In Restricted Working Space, Add</i>	1.19	
22 11 16 00-0349	LF		3/8" Hard Drawn Type L Copper Tube/Pipe.....	5.19	2.75
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.08	
			<i>For &lt;20, Add</i>	0.11	
			<i>For &gt;150, Deduct</i>	-0.21	
			<i>For Work In Restricted Working Space, Add</i>	1.24	
22 11 16 00-0350	LF		1/2" Hard Drawn Type L Copper Tube/Pipe.....	5.57	2.87
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.10	
			<i>For &lt;20, Add</i>	0.13	
			<i>For &gt;150, Deduct</i>	-0.25	
			<i>For Work In Restricted Working Space, Add</i>	1.29	
22 11 16 00-0351	LF		3/4" Hard Drawn Type L Copper Tube/Pipe.....	6.62	3.04
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.16	
			<i>For &lt;20, Add</i>	0.21	
			<i>For &gt;150, Deduct</i>	-0.41	
			<i>For Work In Restricted Working Space, Add</i>	1.37	
22 11 16 00-0352	LF		1" Hard Drawn Type L Copper Tube/Pipe.....	8.10	3.43
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.24	
			<i>For &lt;20, Add</i>	0.30	
			<i>For &gt;150, Deduct</i>	-0.59	
			<i>For Work In Restricted Working Space, Add</i>	1.54	
22 11 16 00-0353	LF		1-1/4" Hard Drawn Type L Copper Tube/Pipe.....	11.72	5.09
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.33	
			<i>For &lt;20, Add</i>	0.41	
			<i>For &gt;150, Deduct</i>	-0.82	
			<i>For Work In Restricted Working Space, Add</i>	2.29	
22 11 16 00-0354	LF		1-1/2" Hard Drawn Type L Copper Tube/Pipe.....	13.78	5.68
			<i>For Medical/Oxygen Service Tubing, Add</i>	0.42	
			<i>For &lt;20, Add</i>	0.53	
			<i>For &gt;150, Deduct</i>	-1.05	
			<i>For Work In Restricted Working Space, Add</i>	2.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0355 LF 2" Hard Drawn Type L Copper Tube/Pipe .....	18.84	7.01
For Medical/Oxygen Service Tubing, Add	0.67	
For <20, Add	0.83	
For >150, Deduct	-1.67	
For Work In Restricted Working Space, Add	3.15	
22 11 16 00-0356 LF 2-1/2" Hard Drawn Type L Copper Tube/Pipe .....	36.78	8.23
For Medical/Oxygen Service Tubing, Add	0.96	
For <20, Add	1.20	
For >150, Deduct	-2.41	
For Work In Restricted Working Space, Add	7.42	
22 11 16 00-0357 LF 3" Hard Drawn Type L Copper Tube/Pipe .....	45.16	9.71
For Medical/Oxygen Service Tubing, Add	1.28	
For <20, Add	1.61	
For >150, Deduct	-3.21	
For Work In Restricted Working Space, Add	8.73	
22 11 16 00-0358 LF 4" Hard Drawn Type L Copper Tube/Pipe .....	61.45	10.95
For Medical/Oxygen Service Tubing, Add	2.29	
For <20, Add	2.86	
For >150, Deduct	-5.72	
For Work In Restricted Working Space, Add	9.85	
22 11 16 00-0359 LF 5" Hard Drawn Type L Copper Tube/Pipe .....	88.27	12.57
For Medical/Oxygen Service Tubing, Add	4.04	
For <20, Add	5.06	
For >150, Deduct	-10.11	
For Work In Restricted Working Space, Add	11.32	
22 11 16 00-0360 LF 6" Hard Drawn Type L Copper Tube/Pipe .....	124.94	19.49
For Medical/Oxygen Service Tubing, Add	5.32	
For <20, Add	6.65	
For >150, Deduct	-13.30	
For Work In Restricted Working Space, Add	17.53	
22 11 16 00-0361 LF 8" Hard Drawn Type L Copper Tube/Pipe .....	190.30	21.67
For Medical/Oxygen Service Tubing, Add	10.03	
For <20, Add	12.53	
For >150, Deduct	-25.07	
For Work In Restricted Working Space, Add	19.49	
<b>22 11 16 00-0362 Hard Drawn Type K Copper Tube/Pipe</b> <small>(22 11 16 00-0346)</small>		
22 11 16 00-0363 LF 1/4" Hard Drawn Type K Copper Tube/Pipe .....	5.08	2.84
For Medical/Oxygen Service Tubing, Add	0.07	
For <20, Add	0.08	
For >150, Deduct	-0.16	
For Work In Restricted Working Space, Add	1.28	
22 11 16 00-0364 LF 3/8" Hard Drawn Type K Copper Tube/Pipe .....	6.33	2.96
For Medical/Oxygen Service Tubing, Add	0.12	
For <20, Add	0.15	
For >150, Deduct	-0.29	
For Work In Restricted Working Space, Add	1.46	
22 11 16 00-0365 LF 1/2" Hard Drawn Type K Copper Tube/Pipe .....	6.47	3.08
For Medical/Oxygen Service Tubing, Add	0.14	
For <20, Add	0.17	
For >150, Deduct	-0.34	
For Work In Restricted Working Space, Add	1.43	
22 11 16 00-0366 LF 3/4" Hard Drawn Type K Copper Tube/Pipe .....	8.61	3.27
For Medical/Oxygen Service Tubing, Add	0.25	
For <20, Add	0.31	
For >150, Deduct	-0.62	
For Work In Restricted Working Space, Add	1.65	
22 11 16 00-0367 LF 1" Hard Drawn Type K Copper Tube/Pipe .....	9.98	3.68
For Medical/Oxygen Service Tubing, Add	0.33	
For <20, Add	0.41	
For >150, Deduct	-0.82	
For Work In Restricted Working Space, Add	1.76	
22 11 16 00-0368 LF 1-1/4" Hard Drawn Type K Copper Tube/Pipe .....	13.42	5.47
For Medical/Oxygen Service Tubing, Add	0.41	
For <20, Add	0.51	
For >150, Deduct	-1.02	
For Work In Restricted Working Space, Add	2.49	
22 11 16 00-0369 LF 1-1/2" Hard Drawn Type K Copper Tube/Pipe .....	15.89	6.10
For Medical/Oxygen Service Tubing, Add	0.52	
For <20, Add	0.66	
For >150, Deduct	-1.31	
For Work In Restricted Working Space, Add	2.80	
22 11 16 00-0370 LF 2" Hard Drawn Type K Copper Tube/Pipe .....	21.52	7.54
For Medical/Oxygen Service Tubing, Add	0.81	
For <20, Add	1.01	
For >150, Deduct	-2.02	
For Work In Restricted Working Space, Add	3.43	
22 11 16 00-0371 LF 2-1/2" Hard Drawn Type K Copper Tube/Pipe .....	39.88	8.85
For Medical/Oxygen Service Tubing, Add	1.20	
For <20, Add	1.50	
For >150, Deduct	-3.01	
For Work In Restricted Working Space, Add	7.45	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0372 LF 3" Hard Drawn Type K Copper Tube/Pipe .....	52.57	10.43
For Medical/Oxygen Service Tubing, Add	1.64	
For <20, Add	2.06	
For >150, Deduct	-4.11	
For Work In Restricted Working Space, Add	9.61	
22 11 16 00-0373 LF 4" Hard Drawn Type K Copper Tube/Pipe .....	72.91	11.78
For Medical/Oxygen Service Tubing, Add	2.93	
For <20, Add	3.66	
For >150, Deduct	-7.33	
For Work In Restricted Working Space, Add	10.88	
22 11 16 00-0374 LF 6" Hard Drawn Type K Copper Tube/Pipe .....	109.95	13.52
For Medical/Oxygen Service Tubing, Add	5.37	
For <20, Add	6.71	
For >150, Deduct	-13.43	
For Work In Restricted Working Space, Add	12.85	
22 11 16 00-0375 LF 6" Hard Drawn Type K Copper Tube/Pipe .....	165.35	20.95
For Medical/Oxygen Service Tubing, Add	7.70	
For <20, Add	9.63	
For >150, Deduct	-19.26	
For Work In Restricted Working Space, Add	20.71	
22 11 16 00-0376 LF 8" Hard Drawn Type K Copper Tube/Pipe .....	256.43	23.29
For Medical/Oxygen Service Tubing, Add	14.43	
For <20, Add	18.04	
For >150, Deduct	-36.07	
For Work In Restricted Working Space, Add	22.82	
<b>22 11 16 00-0377 Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0346)</b>		
22 11 16 00-0378 LF 3/8" Hard Drawn Type M Copper Tube/Pipe .....	4.41	2.48
For <20, Add	0.08	
For >150, Deduct	-0.17	
For Work In Restricted Working Space, Add	1.07	
22 11 16 00-0379 LF 1/2" Hard Drawn Type M Copper Tube/Pipe .....	4.63	2.58
For <20, Add	0.09	
For >150, Deduct	-0.19	
For Work In Restricted Working Space, Add	1.11	
22 11 16 00-0380 LF 3/4" Hard Drawn Type M Copper Tube/Pipe .....	5.43	2.74
For <20, Add	0.15	
For >150, Deduct	-0.30	
For Work In Restricted Working Space, Add	1.18	
22 11 16 00-0381 LF 1" Hard Drawn Type M Copper Tube/Pipe .....	6.71	3.08
For <20, Add	0.23	
For >150, Deduct	-0.46	
For Work In Restricted Working Space, Add	1.32	
22 11 16 00-0382 LF 1-1/4" Hard Drawn Type M Copper Tube/Pipe .....	10.13	4.58
For <20, Add	0.34	
For >150, Deduct	-0.68	
For Work In Restricted Working Space, Add	2.03	
22 11 16 00-0383 LF 1-1/2" Hard Drawn Type M Copper Tube/Pipe .....	12.43	5.11
For <20, Add	0.47	
For >150, Deduct	-0.93	
For Work In Restricted Working Space, Add	2.33	
22 11 16 00-0384 LF 2" Hard Drawn Type M Copper Tube/Pipe .....	16.96	6.30
For <20, Add	0.73	
For >150, Deduct	-1.47	
For Work In Restricted Working Space, Add	2.89	
22 11 16 00-0385 LF 2-1/2" Hard Drawn Type M Copper Tube/Pipe .....	34.02	7.42
For <20, Add	1.06	
For >150, Deduct	-2.13	
For Work In Restricted Working Space, Add	7.01	
22 11 16 00-0386 LF 3" Hard Drawn Type M Copper Tube/Pipe .....	40.40	8.73
For <20, Add	1.42	
For >150, Deduct	-2.83	
For Work In Restricted Working Space, Add	7.88	
22 11 16 00-0387 LF 4" Hard Drawn Type M Copper Tube/Pipe .....	57.13	9.86
For <20, Add	2.65	
For >150, Deduct	-5.30	
For Work In Restricted Working Space, Add	9.19	
22 11 16 00-0388 LF 5" Hard Drawn Type M Copper Tube/Pipe .....	86.80	11.32
For <20, Add	5.14	
For >150, Deduct	-10.29	
For Work In Restricted Working Space, Add	10.61	
22 11 16 00-0389 LF 6" Hard Drawn Type M Copper Tube/Pipe .....	123.48	17.55
For <20, Add	6.87	
For >150, Deduct	-13.74	
For Work In Restricted Working Space, Add	16.43	
22 11 16 00-0390 LF 8" Hard Drawn Type M Copper Tube/Pipe .....	190.46	19.50
For <20, Add	13.02	
For >150, Deduct	-26.04	
For Work In Restricted Working Space, Add	18.08	
<b>22 11 16 00-0391 Soft Drawn Type L Copper Tube (22 11 16 00-0346)</b>		





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0392 LF 1/4" Soft Drawn Type L Copper Tube.....	4.89	2.64
<i>For &lt;20, Add</i>	0.09	
<i>For &gt;150, Deduct</i>	-0.19	
<i>For Work In Restricted Working Space, Add</i>	1.19	
22 11 16 00-0393 LF 3/8" Soft Drawn Type L Copper Tube.....	5.58	2.75
<i>For &lt;20, Add</i>	0.15	
<i>For &gt;150, Deduct</i>	-0.29	
<i>For Work In Restricted Working Space, Add</i>	1.24	
22 11 16 00-0394 LF 1/2" Soft Drawn Type L Copper Tube.....	6.26	2.87
<i>For &lt;20, Add</i>	0.20	
<i>For &gt;150, Deduct</i>	-0.39	
<i>For Work In Restricted Working Space, Add</i>	1.29	
22 11 16 00-0395 LF 5/8" Soft Drawn Type L Copper Tube.....	6.94	2.96
<i>For &lt;20, Add</i>	0.25	
<i>For &gt;150, Deduct</i>	-0.50	
<i>For Work In Restricted Working Space, Add</i>	1.33	
22 11 16 00-0396 LF 3/4" Soft Drawn Type L Copper Tube.....	7.55	3.04
<i>For &lt;20, Add</i>	0.30	
<i>For &gt;150, Deduct</i>	-0.60	
<i>For Work In Restricted Working Space, Add</i>	1.37	
22 11 16 00-0397 LF 1" Soft Drawn Type L Copper Tube.....	9.26	3.43
<i>For &lt;20, Add</i>	0.41	
<i>For &gt;150, Deduct</i>	-0.83	
<i>For Work In Restricted Working Space, Add</i>	1.54	
22 11 16 00-0398 LF 1-1/4" Soft Drawn Type L Copper Tube.....	13.07	5.09
<i>For &lt;20, Add</i>	0.54	
<i>For &gt;150, Deduct</i>	-1.09	
<i>For Work In Restricted Working Space, Add</i>	2.29	
22 11 16 00-0399 LF 1-1/2" Soft Drawn Type L Copper Tube.....	15.88	5.68
<i>For &lt;20, Add</i>	0.74	
<i>For &gt;150, Deduct</i>	-1.47	
<i>For Work In Restricted Working Space, Add</i>	2.55	
22 11 16 00-0400 LF 2" Soft Drawn Type L Copper Tube.....	22.22	7.01
<i>For &lt;20, Add</i>	1.17	
<i>For &gt;150, Deduct</i>	-2.34	
<i>For Work In Restricted Working Space, Add</i>	3.15	
<b>22 11 16 00-0401 Soft Drawn Type K Copper Tube (22 11 16 00-0346)</b>		
22 11 16 00-0402 LF 1/4" Soft Drawn Type K Copper Tube.....	4.99	2.64
<i>For &lt;20, Add</i>	0.10	
<i>For &gt;150, Deduct</i>	-0.21	
<i>For Work In Restricted Working Space, Add</i>	1.19	
22 11 16 00-0403 LF 3/8" Soft Drawn Type K Copper Tube.....	5.89	2.75
<i>For &lt;20, Add</i>	0.18	
<i>For &gt;150, Deduct</i>	-0.35	
<i>For Work In Restricted Working Space, Add</i>	1.24	
22 11 16 00-0404 LF 1/2" Soft Drawn Type K Copper Tube.....	6.51	2.87
<i>For &lt;20, Add</i>	0.22	
<i>For &gt;150, Deduct</i>	-0.44	
<i>For Work In Restricted Working Space, Add</i>	1.29	
22 11 16 00-0405 LF 5/8" Soft Drawn Type K Copper Tube.....	7.06	2.96
<i>For &lt;20, Add</i>	0.26	
<i>For &gt;150, Deduct</i>	-0.52	
<i>For Work In Restricted Working Space, Add</i>	1.33	
22 11 16 00-0406 LF 3/4" Soft Drawn Type K Copper Tube.....	8.64	3.04
<i>For &lt;20, Add</i>	0.41	
<i>For &gt;150, Deduct</i>	-0.81	
<i>For Work In Restricted Working Space, Add</i>	1.37	
22 11 16 00-0407 LF 1" Soft Drawn Type K Copper Tube.....	10.53	3.43
<i>For &lt;20, Add</i>	0.54	
<i>For &gt;150, Deduct</i>	-1.08	
<i>For Work In Restricted Working Space, Add</i>	1.54	
22 11 16 00-0408 LF 1-1/4" Soft Drawn Type K Copper Tube.....	14.00	5.09
<i>For &lt;20, Add</i>	0.64	
<i>For &gt;150, Deduct</i>	-1.27	
<i>For Work In Restricted Working Space, Add</i>	2.29	
22 11 16 00-0409 LF 1-1/2" Soft Drawn Type K Copper Tube.....	17.36	5.68
<i>For &lt;20, Add</i>	0.89	
<i>For &gt;150, Deduct</i>	-1.77	
<i>For Work In Restricted Working Space, Add</i>	2.55	
22 11 16 00-0410 LF 2" Soft Drawn Type K Copper Tube.....	24.25	7.01
<i>For &lt;20, Add</i>	1.38	
<i>For &gt;150, Deduct</i>	-2.75	
<i>For Work In Restricted Working Space, Add</i>	3.15	
22 11 16 00-0411 LF 2-1/2" Soft Drawn Type K Copper Tube.....	33.22	8.41
<i>For &lt;20, Add</i>	2.06	
<i>For &gt;150, Deduct</i>	-4.12	
<i>For Work In Restricted Working Space, Add</i>	3.78	
22 11 16 00-0412 LF 3" Soft Drawn Type K Copper Tube.....	43.56	9.92
<i>For &lt;20, Add</i>	2.87	
<i>For &gt;150, Deduct</i>	-5.74	
<i>For Work In Restricted Working Space, Add</i>	4.46	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0413			<b>Copper And Brass Fittings</b> (22 11 16 00-0345) Note: All fittings are based on 95/5 solder.		
22 11 16 00-0414			<b>90 Degree Copper Elbows</b> (22 11 16 00-0413)		
22 11 16 00-0415	EA		1/4" 90 Degree Copper Elbow .....25.71	25.71	15.68
			For Silver Solder Instead Of 95/5 Solder, Add	3.64	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.46	
			For Brazed Fittings Instead Of 95/5 Solder, Add	3.53	
			For Street Fitting, Add	0.88	
			For Work In Restricted Working Space, Add	7.06	
22 11 16 00-0416	EA		3/8" 90 Degree Copper Elbow .....30.53	30.53	18.82
			For Silver Solder Instead Of 95/5 Solder, Add	4.35	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.94	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.23	
			For Street Fitting, Add	0.92	
			For Work In Restricted Working Space, Add	8.47	
22 11 16 00-0417	EA		1/2" 90 Degree Copper Elbow .....39.55	39.55	25.87
			For Silver Solder Instead Of 95/5 Solder, Add	5.86	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.92	
			For Brazed Fittings Instead Of 95/5 Solder, Add	5.82	
			For Street Fitting, Add	0.30	
			For Work In Restricted Working Space, Add	11.64	
22 11 16 00-0418	EA		3/4" 90 Degree Copper Elbow .....49.90	49.90	32.22
			For Silver Solder Instead Of 95/5 Solder, Add	7.32	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.91	
			For Brazed Fittings Instead Of 95/5 Solder, Add	7.23	
			For Street Fitting, Add	0.68	
			For Work In Restricted Working Space, Add	14.46	
22 11 16 00-0419	EA		1" 90 Degree Copper Elbow .....61.75	61.75	38.45
			For Silver Solder Instead Of 95/5 Solder, Add	8.85	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.97	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.64	
			For Street Fitting, Add	1.65	
			For Work In Restricted Working Space, Add	17.29	
22 11 16 00-0420	EA		1-1/4" 90 Degree Copper Elbow .....68.49	68.49	41.62
			For Silver Solder Instead Of 95/5 Solder, Add	9.66	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.54	
			For Brazed Fittings Instead Of 95/5 Solder, Add	9.35	
			For Street Fitting, Add	2.47	
			For Work In Restricted Working Space, Add	18.70	
22 11 16 00-0421	EA		1-1/2" 90 Degree Copper Elbow .....77.85	77.85	45.50
			For Silver Solder Instead Of 95/5 Solder, Add	10.71	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.30	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.23	
			For Street Fitting, Add	3.86	
			For Work In Restricted Working Space, Add	20.46	
22 11 16 00-0422	EA		2" 90 Degree Copper Elbow .....94.03	94.03	51.04
			For Silver Solder Instead Of 95/5 Solder, Add	12.35	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.52	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.47	
			For Street Fitting, Add	7.04	
			For Work In Restricted Working Space, Add	22.93	
22 11 16 00-0423	EA		2-1/2" 90 Degree Copper Elbow .....112.41	112.41	51.95
			For Silver Solder Instead Of 95/5 Solder, Add	13.41	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.52	
			For Brazed Fittings Instead Of 95/5 Solder, Add	11.69	
			For Work In Restricted Working Space, Add	23.38	
22 11 16 00-0424	EA		3" 90 Degree Copper Elbow .....141.71	141.71	62.12
			For Silver Solder Instead Of 95/5 Solder, Add	16.39	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.74	
			For Brazed Fittings Instead Of 95/5 Solder, Add	13.96	
			For Work In Restricted Working Space, Add	27.92	
22 11 16 00-0425	EA		4" 90 Degree Copper Elbow .....250.06	250.06	88.10
			For Silver Solder Instead Of 95/5 Solder, Add	25.71	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.11	
			For Brazed Fittings Instead Of 95/5 Solder, Add	19.81	
			For Work In Restricted Working Space, Add	39.61	
22 11 16 00-0426	EA		5" 90 Degree Copper Elbow .....675.14	675.14	120.56
			For Silver Solder Instead Of 95/5 Solder, Add	51.83	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-42.79	
			For Brazed Fittings Instead Of 95/5 Solder, Add	27.11	
			For Work In Restricted Working Space, Add	54.22	
22 11 16 00-0427	EA		6" 90 Degree Copper Elbow .....922.08	922.08	175.44
			For Silver Solder Instead Of 95/5 Solder, Add	72.40	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-59.25	
			For Brazed Fittings Instead Of 95/5 Solder, Add	39.45	
			For Work In Restricted Working Space, Add	78.90	
22 11 16 00-0428	EA		8" 90 Degree Copper Elbow .....2,788.93	2,788.93	233.88
			For Silver Solder Instead Of 95/5 Solder, Add	174.51	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-156.98	
			For Brazed Fittings Instead Of 95/5 Solder, Add	52.60	
			For Work In Restricted Working Space, Add	105.20	
22 11 16 00-0429			<b>90 Degree Brass Elbows</b> (22 11 16 00-0413)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0430	EA		1/2" Drop Ear 90 Degree Brass Elbow.....	43.51	25.87
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.06	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.12	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.82	
			<i>For Work In Restricted Working Space, Add</i>	11.64	
22 11 16 00-0431	EA		3/4" Drop Ear 90 Degree Brass Elbow.....	61.94	32.22
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.92	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.51	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.23	
			<i>For Work In Restricted Working Space, Add</i>	14.46	
22 11 16 00-0432	EA		1/2" Flanged Sink 90 Degree Brass Elbow.....	47.39	25.87
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.25	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.31	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.82	
			<i>For Work In Restricted Working Space, Add</i>	11.64	
22 11 16 00-0433	EA		3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	35.26	18.82
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.59	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.17	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.23	
			<i>For Work In Restricted Working Space, Add</i>	8.47	
22 11 16 00-0434	EA		1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	43.84	25.87
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.07	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.13	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.82	
			<i>For Work In Restricted Working Space, Add</i>	11.64	
22 11 16 00-0435	EA		3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	57.09	32.22
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.68	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.27	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.23	
			<i>For Work In Restricted Working Space, Add</i>	14.46	
22 11 16 00-0436	EA		1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	85.96	38.45
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.06	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.18	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.64	
			<i>For Work In Restricted Working Space, Add</i>	17.29	
<b>22 11 16 00-0437</b>			<b>Reducing 90 Degree Copper Elbows</b> <small>(22 11 16 00-0413)</small>		
22 11 16 00-0438	EA		1/2" Reducing 90 Degree Copper Elbow.....	44.89	25.87
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.12	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.18	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.82	
			<i>For Work In Restricted Working Space, Add</i>	11.64	
22 11 16 00-0439	EA		3/4" Reducing 90 Degree Copper Elbow.....	52.52	32.22
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.45	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.04	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.23	
			<i>For Work In Restricted Working Space, Add</i>	14.46	
22 11 16 00-0440	EA		1" Reducing 90 Degree Copper Elbow.....	65.54	38.45
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.04	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.16	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.64	
			<i>For Work In Restricted Working Space, Add</i>	17.29	
22 11 16 00-0441	EA		1-1/4" Reducing 90 Degree Copper Elbow.....	82.49	41.62
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.36	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.24	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.35	
			<i>For Work In Restricted Working Space, Add</i>	18.70	
22 11 16 00-0442	EA		1-1/2" Reducing 90 Degree Copper Elbow.....	94.71	45.50
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.56	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.15	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.23	
			<i>For Work In Restricted Working Space, Add</i>	20.46	
22 11 16 00-0443	EA		2" Reducing 90 Degree Copper Elbow.....	112.12	51.04
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.25	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.43	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.47	
			<i>For Work In Restricted Working Space, Add</i>	22.93	
<b>22 11 16 00-0444</b>			<b>45 Degree Copper Elbows</b> <small>(22 11 16 00-0413)</small>		
22 11 16 00-0445	EA		1/4" 45 Degree Copper Elbow.....	27.60	15.68
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.73	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.56	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.53	
			<i>For Street Fitting, Add</i>	1.63	
			<i>For Work In Restricted Working Space, Add</i>	7.06	
22 11 16 00-0446	EA		3/8" 45 Degree Copper Elbow.....	31.72	18.82
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.41	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.00	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.23	
			<i>For Street Fitting, Add</i>	1.40	
			<i>For Work In Restricted Working Space, Add</i>	8.47	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0447 EA 1/2" 45 Degree Copper Elbow .....	40.18	25.87
For Silver Solder Instead Of 95/5 Solder, Add	5.89	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.95	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.82	
For Street Fitting, Add	0.55	
For Work In Restricted Working Space, Add	11.64	
22 11 16 00-0448 EA 3/4" 45 Degree Copper Elbow .....	50.56	32.22
For Silver Solder Instead Of 95/5 Solder, Add	7.35	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.94	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.23	
For Street Fitting, Add	0.94	
For Work In Restricted Working Space, Add	14.46	
22 11 16 00-0449 EA 1" 45 Degree Copper Elbow .....	63.50	38.45
For Silver Solder Instead Of 95/5 Solder, Add	8.94	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.06	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.64	
For Street Fitting, Add	2.35	
For Work In Restricted Working Space, Add	17.29	
22 11 16 00-0450 EA 1-1/4" 45 Degree Copper Elbow .....	70.28	41.62
For Silver Solder Instead Of 95/5 Solder, Add	9.75	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.63	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.35	
For Street Fitting, Add	3.18	
For Work In Restricted Working Space, Add	18.70	
22 11 16 00-0451 EA 1-1/2" 45 Degree Copper Elbow .....	77.97	45.50
For Silver Solder Instead Of 95/5 Solder, Add	10.72	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.31	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.23	
For Street Fitting, Add	3.91	
For Work In Restricted Working Space, Add	20.46	
22 11 16 00-0452 EA 2" 45 Degree Copper Elbow .....	92.74	51.04
For Silver Solder Instead Of 95/5 Solder, Add	12.28	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.46	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.47	
For Work In Restricted Working Space, Add	22.93	
22 11 16 00-0453 EA 2-1/2" 45 Degree Copper Elbow .....	111.99	51.95
For Silver Solder Instead Of 95/5 Solder, Add	13.39	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.50	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.69	
For Work In Restricted Working Space, Add	23.38	
22 11 16 00-0454 EA 3" 45 Degree Copper Elbow .....	143.63	62.12
For Silver Solder Instead Of 95/5 Solder, Add	16.49	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.84	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.96	
For Work In Restricted Working Space, Add	27.92	
22 11 16 00-0455 EA 4" 45 Degree Copper Elbow .....	239.85	88.10
For Silver Solder Instead Of 95/5 Solder, Add	25.20	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-18.59	
For Brazed Fittings Instead Of 95/5 Solder, Add	19.81	
For Work In Restricted Working Space, Add	39.61	
22 11 16 00-0456 EA 5" 45 Degree Copper Elbow .....	598.24	120.56
For Silver Solder Instead Of 95/5 Solder, Add	47.99	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-38.95	
For Brazed Fittings Instead Of 95/5 Solder, Add	27.11	
For Work In Restricted Working Space, Add	54.22	
22 11 16 00-0457 EA 6" 45 Degree Copper Elbow .....	920.95	175.44
For Silver Solder Instead Of 95/5 Solder, Add	72.35	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-59.20	
For Brazed Fittings Instead Of 95/5 Solder, Add	39.45	
For Work In Restricted Working Space, Add	78.90	
22 11 16 00-0458 EA 8" 45 Degree Copper Elbow .....	2,586.37	233.88
For Silver Solder Instead Of 95/5 Solder, Add	164.38	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-146.85	
For Brazed Fittings Instead Of 95/5 Solder, Add	52.60	
For Work In Restricted Working Space, Add	105.20	
<b>22 11 16 00-0459 Straight Copper And Brass Tees (22 11 16 00-0413)</b>		
22 11 16 00-0460 EA 1/4" Straight Copper Tee .....	39.85	23.52
For Silver Solder Instead Of 95/5 Solder, Add	5.52	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.76	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.29	
For Work In Restricted Working Space, Add	10.58	
22 11 16 00-0461 EA 3/8" Straight Copper Tee .....	46.02	28.22
For Silver Solder Instead Of 95/5 Solder, Add	6.53	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.42	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.35	
For Work In Restricted Working Space, Add	12.70	
22 11 16 00-0462 EA 1/2" Straight Copper Tee .....	60.08	39.27
For Silver Solder Instead Of 95/5 Solder, Add	8.88	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.94	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.82	
For Work In Restricted Working Space, Add	17.64	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0463	EA		3/4" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.99 11.09 -7.45 10.94 21.87	48.68
22 11 16 00-0464	EA		1" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	96.29 13.52 -9.17 13.05 26.11	58.09
22 11 16 00-0465	EA		1-1/4" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	106.99 14.76 -10.05 14.11 28.22	62.79
22 11 16 00-0466	EA		1-1/2" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.86 16.32 -11.21 15.35 30.69	68.20
22 11 16 00-0467	EA		2" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	146.31 18.84 -13.08 17.29 34.57	76.90
22 11 16 00-0468	EA		2-1/2" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	178.36 20.61 -14.76 17.53 35.06	77.92
22 11 16 00-0469	EA		3" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	234.62 25.80 -18.77 21.10 42.21	93.83
22 11 16 00-0470	EA		4" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	424.29 40.91 -31.06 29.55 59.09	131.39
22 11 16 00-0471	EA		5" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,012.60 77.58 -64.10 40.42 80.85	179.77
22 11 16 00-0472	EA		6" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,410.84 110.04 -90.29 59.25 118.51	263.53
22 11 16 00-0473	EA		8" Straight Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,444.48 274.82 -248.52 78.90 157.79	350.87
22 11 16 00-0474	EA		1/2" Cast Bronze Drop Ear Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	66.73 9.22 -6.28 8.82 17.64	39.27
<b>22 11 16 00-0475</b>			<b>Reducing Copper Tees</b> <small>(22 11 16 00-0413)</small>		
22 11 16 00-0476	EA		3/8" Reducing Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	44.92 6.01 -4.13 5.64 11.29	25.05
22 11 16 00-0477	EA		1/2" Reducing Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.34 8.26 -5.61 7.94 15.88	35.27
22 11 16 00-0478	EA		3/4" Reducing Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	71.47 10.39 -6.98 10.23 20.46	45.50
22 11 16 00-0479	EA		1" Reducing Copper Tee ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	92.71 12.87 -8.75 12.35 24.69	54.92

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 11 Facility Water Distribution**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0480	EA		1-1/4" Reducing Copper Tee .....	105.15	59.62
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.19	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.73	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.41	
			<i>For Work In Restricted Working Space, Add</i>	26.81	
22 11 16 00-0481	EA		1-1/2" Reducing Copper Tee .....	119.90	65.14
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	15.76	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.88	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	14.64	
			<i>For Work In Restricted Working Space, Add</i>	29.28	
22 11 16 00-0482	EA		2" Reducing Copper Tee .....	141.60	72.91
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	18.02	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-12.55	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.40	
			<i>For Work In Restricted Working Space, Add</i>	32.81	
22 11 16 00-0483	EA		2-1/2" Reducing Copper Tee .....	179.90	75.11
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	20.25	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-14.62	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.88	
			<i>For Work In Restricted Working Space, Add</i>	33.77	
22 11 16 00-0484	EA		3" Reducing Copper Tee .....	240.47	86.58
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	25.01	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-18.52	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	19.48	
			<i>For Work In Restricted Working Space, Add</i>	38.96	
22 11 16 00-0485	EA		4" Reducing Copper Tee .....	392.99	106.82
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	35.67	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-27.66	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	24.03	
			<i>For Work In Restricted Working Space, Add</i>	48.05	
<b>22 11 16 00-0486</b>			<b>Copper Couplings</b> (22 11 16 00-0413)		
22 11 16 00-0487	EA		1/4" Copper Coupling .....	23.96	15.68
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.55	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.37	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.53	
			<i>For Work In Restricted Working Space, Add</i>	7.06	
22 11 16 00-0488	EA		3/8" Copper Coupling .....	28.80	18.82
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.26	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.85	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.23	
			<i>For Work In Restricted Working Space, Add</i>	8.47	
22 11 16 00-0489	EA		1/2" Copper Coupling .....	39.28	25.87
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.84	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.90	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.82	
			<i>For Work In Restricted Working Space, Add</i>	11.64	
22 11 16 00-0490	EA		3/4" Copper Coupling .....	49.19	32.22
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.28	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.87	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.23	
			<i>For Work In Restricted Working Space, Add</i>	14.46	
22 11 16 00-0491	EA		1" Copper Coupling .....	59.56	38.45
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.74	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.86	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.64	
			<i>For Work In Restricted Working Space, Add</i>	17.29	
22 11 16 00-0492	EA		1-1/4" Copper Coupling .....	65.74	41.62
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.52	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.40	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.35	
			<i>For Work In Restricted Working Space, Add</i>	18.70	
22 11 16 00-0493	EA		1-1/2" Copper Coupling .....	72.72	45.50
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.46	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.05	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.23	
			<i>For Work In Restricted Working Space, Add</i>	20.46	
22 11 16 00-0494	EA		2" Copper Coupling .....	83.96	50.57
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.84	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.02	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.47	
			<i>For Work In Restricted Working Space, Add</i>	22.93	
22 11 16 00-0495	EA		2-1/2" Copper Coupling .....	89.06	49.14
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.81	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.13	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.04	
			<i>For Work In Restricted Working Space, Add</i>	22.08	
22 11 16 00-0496	EA		3" Copper Coupling .....	109.79	59.53
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.36	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.93	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.31	
			<i>For Work In Restricted Working Space, Add</i>	26.62	



<b>Plumbing</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>
<b>Facility Water Distribution</b>	<b>22 11</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0497 EA 4" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	165.41 20.17 -14.22 17.86 35.71	80.09
22 11 16 00-0498 EA 5" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	258.98 29.18 -21.07 24.35 48.70	146.11
22 11 16 00-0499 EA 6" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	397.80 43.70 -31.80 35.72 71.43	158.76
22 11 16 00-0500 EA 8" Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	833.69 73.29 -57.49 47.40 94.81	210.50
<b>22 11 16 00-0501 Reducing Copper Couplings</b> (22 11 16 00-0413)		
22 11 16 00-0502 EA 3/8" Reducing Copper Coupling ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.48 3.58 -2.40 3.53 7.06	15.64
22 11 16 00-0503 EA 1/2" Reducing Copper Coupling ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.52 5.08 -3.40 5.03 10.06	22.34
22 11 16 00-0504 EA 3/4" Reducing Copper Coupling ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	45.24 6.61 -4.44 6.53 13.05	29.05
22 11 16 00-0505 EA 1" Reducing Copper Coupling ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	56.05 8.09 -5.45 7.94 15.88	35.27
22 11 16 00-0506 EA 1-1/4" Reducing Copper Coupling ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.33 9.21 -6.22 9.00 17.99	39.98
22 11 16 00-0507 EA 1-1/2" Reducing Copper Coupling ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.47 10.15 -6.89 9.79 19.58	43.51
22 11 16 00-0508 EA 2" Reducing Copper Coupling ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	83.47 11.41 -7.79 10.85 21.70	48.21
22 11 16 00-0509 EA 2-1/2" Reducing Copper Coupling ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	97.07 12.27 -8.56 11.12 22.24	49.46
22 11 16 00-0510 EA 3" Reducing Copper Coupling ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.86 14.24 -9.97 12.83 25.65	57.36
22 11 16 00-0511 EA 4" Reducing Copper Coupling ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	168.86 19.70 -14.07 16.88 33.77	75.11
22 11 16 00-0512 EA 5" Reducing Copper Coupling ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	377.12 34.55 -26.70 23.54 47.08	104.65
22 11 16 00-0513 EA 6" Reducing Copper Coupling ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	552.02 48.71 -38.15 31.66 63.31	140.69

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0514 EA 8" Reducing Copper Coupling..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,030.22 82.25 -66.88 46.10 92.21	205.01
<b>22 11 16 00-0515 Male Copper Adapters (22 11 16 00-0413)</b>		
22 11 16 00-0516 EA 1/4" Male Copper Adapter..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	31.25 3.91 -2.74 3.53 7.06	15.29
22 11 16 00-0517 EA 3/8" Male Copper Adapter..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	32.08 4.43 -3.02 4.23 8.47	18.82
22 11 16 00-0518 EA 1/2" Male Copper Adapter..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.83 5.37 -3.61 5.29 10.58	23.52
22 11 16 00-0519 EA 3/4" Male Copper Adapter..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.16 6.66 -4.48 6.53 13.05	29.40
22 11 16 00-0520 EA 1" Male Copper Adapter..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.30 7.92 -5.39 7.59 15.17	34.10
22 11 16 00-0521 EA 1-1/4" Male Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	68.58 9.31 -6.37 8.82 17.64	38.80
22 11 16 00-0522 EA 1-1/2" Male Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.48 10.63 -7.28 10.05 20.11	44.69
22 11 16 00-0523 EA 2" Male Copper Adapter..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	105.24 13.85 -9.55 12.88 25.75	57.03
22 11 16 00-0524 EA 2-1/2" Male Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	172.25 19.67 -14.14 16.58 33.16	74.09
22 11 16 00-0525 EA 3" Male Copper Adapter..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	228.87 26.16 -18.80 22.08 44.15	98.75
22 11 16 00-0526 EA 4" Male Copper Adapter..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	338.45 37.70 -27.31 31.17 62.34	138.53
<b>22 11 16 00-0527 Female Copper Adapters (22 11 16 00-0413)</b>		
22 11 16 00-0528 EA 1/4" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.46 3.78 -2.60 3.53 7.06	15.29
22 11 16 00-0529 EA 3/8" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	33.39 4.49 -3.08 4.23 8.47	18.82
22 11 16 00-0530 EA 1/2" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	37.77 5.42 -3.65 5.29 10.58	23.52
22 11 16 00-0531 EA 3/4" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.93 6.70 -4.52 6.53 13.05	29.40





	<b>Plumbing</b>	<b>22</b>
	Plumbing Piping	22 10
	Facility Water Distribution	22 11

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0532	EA		1" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.39 7.98 -5.45 7.59 15.17	34.10
22 11 16 00-0533	EA		1-1/4" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	70.25 9.39 -6.45 8.82 17.64	38.80
22 11 16 00-0534	EA		1-1/2" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	84.96 10.95 -7.60 10.05 20.11	44.69
22 11 16 00-0535	EA		2" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	110.18 14.09 -9.80 12.88 25.75	57.03
22 11 16 00-0536	EA		2-1/2" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	188.80 19.61 -14.53 15.26 30.52	68.18
22 11 16 00-0537	EA		3" Female Copper Adapter ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	293.85 29.41 -22.05 22.08 44.15	98.75
<b>22 11 16 00-0538</b>			<b>Wrot Copper, Solder Union (22 11 16 00-0413)</b>		
22 11 16 00-0539	EA		1/4" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.15 4.78 -3.37 4.23 8.47	18.82
22 11 16 00-0540	EA		3/8" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	45.36 5.68 -3.97 5.12 10.23	22.70
22 11 16 00-0541	EA		1/2" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	49.29 6.70 -4.58 6.35 12.70	28.22
22 11 16 00-0542	EA		3/4" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	56.77 7.66 -5.25 7.23 14.46	32.22
22 11 16 00-0543	EA		1" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.33 9.38 -6.50 8.64 17.29	38.45
22 11 16 00-0544	EA		1-1/4" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	84.80 10.59 -7.42 9.53 19.05	42.33
22 11 16 00-0545	EA		1-1/2" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	100.58 12.08 -8.56 10.58 21.17	47.04
22 11 16 00-0546	EA		2" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	135.85 15.26 -11.03 12.70 25.40	56.44
22 11 16 00-0547	EA		2-1/2" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	232.68 20.94 -16.29 13.96 27.92	62.12
22 11 16 00-0548	EA		3" Wrot Copper, Solder Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	433.31 37.87 -31.27 19.81 39.61	88.10

22 11 16 00-0549 Cast Bronze, Solder Union (22 11 16 00-0413)

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0550 EA 1/4" Cast Bronze, Solder Union.....	43.18	18.82
For Silver Solder Instead Of 95/5 Solder, Add	4.98	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.57	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.23	
For Work In Restricted Working Space, Add	8.47	
22 11 16 00-0551 EA 3/8" Cast Bronze, Solder Union.....	49.16	22.70
For Silver Solder Instead Of 95/5 Solder, Add	5.87	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.16	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.12	
For Work In Restricted Working Space, Add	10.23	
22 11 16 00-0552 EA 1/2" Cast Bronze, Solder Union.....	50.35	28.22
For Silver Solder Instead Of 95/5 Solder, Add	6.75	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.63	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.35	
For Work In Restricted Working Space, Add	12.70	
22 11 16 00-0553 EA 3/4" Cast Bronze, Solder Union.....	58.27	32.22
For Silver Solder Instead Of 95/5 Solder, Add	7.73	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.32	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.23	
For Work In Restricted Working Space, Add	14.46	
22 11 16 00-0554 EA 1" Cast Bronze, Solder Union.....	74.93	38.45
For Silver Solder Instead Of 95/5 Solder, Add	9.51	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.63	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.64	
For Work In Restricted Working Space, Add	17.29	
22 11 16 00-0555 EA 1-1/4" Cast Bronze, Solder Union.....	91.90	42.33
For Silver Solder Instead Of 95/5 Solder, Add	10.95	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.77	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.53	
For Work In Restricted Working Space, Add	19.05	
22 11 16 00-0556 EA 1-1/2" Cast Bronze, Solder Union.....	107.99	47.04
For Silver Solder Instead Of 95/5 Solder, Add	12.45	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.93	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.58	
For Work In Restricted Working Space, Add	21.17	
22 11 16 00-0557 EA 2" Cast Bronze, Solder Union.....	148.47	56.44
For Silver Solder Instead Of 95/5 Solder, Add	15.89	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-11.66	
For Brazed Fittings Instead Of 95/5 Solder, Add	12.70	
For Work In Restricted Working Space, Add	25.40	
22 11 16 00-0558 EA 2-1/2" Cast Bronze, Solder Union.....	232.67	62.12
For Silver Solder Instead Of 95/5 Solder, Add	20.94	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-16.29	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.96	
For Work In Restricted Working Space, Add	27.92	
22 11 16 00-0559 EA 3" Cast Bronze, Solder Union.....	493.31	88.10
For Silver Solder Instead Of 95/5 Solder, Add	37.87	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-31.27	
For Brazed Fittings Instead Of 95/5 Solder, Add	19.81	
For Work In Restricted Working Space, Add	39.61	
<b>22 11 16 00-0560 Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0413)</b>		
22 11 16 00-0561 EA 1/4" Cast Bronze, Solder X Female Threaded Union.....	48.62	18.82
For Silver Solder Instead Of 95/5 Solder, Add	5.25	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.84	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.23	
For Work In Restricted Working Space, Add	8.47	
22 11 16 00-0562 EA 3/8" Cast Bronze, Solder X Female Threaded Union.....	55.21	22.70
For Silver Solder Instead Of 95/5 Solder, Add	6.17	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.47	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.12	
For Work In Restricted Working Space, Add	10.23	
22 11 16 00-0563 EA 1/2" Cast Bronze, Solder X Female Threaded Union.....	59.10	28.22
For Silver Solder Instead Of 95/5 Solder, Add	7.19	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.07	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.35	
For Work In Restricted Working Space, Add	12.70	
22 11 16 00-0564 EA 3/4" Cast Bronze, Solder X Female Threaded Union.....	71.06	32.22
For Silver Solder Instead Of 95/5 Solder, Add	8.37	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.96	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.23	
For Work In Restricted Working Space, Add	14.46	
22 11 16 00-0565 EA 1" Cast Bronze, Solder X Female Threaded Union.....	105.16	38.45
For Silver Solder Instead Of 95/5 Solder, Add	11.02	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.14	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.64	
For Work In Restricted Working Space, Add	17.29	
22 11 16 00-0566 EA 1-1/4" Cast Bronze, Solder X Female Threaded Union.....	152.09	42.33
For Silver Solder Instead Of 95/5 Solder, Add	13.95	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.78	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.53	
For Work In Restricted Working Space, Add	19.05	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0567	EA		1-1/2" Cast Bronze, Solder X Female Threaded Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	182.79 16.19 -12.67 10.58 21.17	47.04
	22 11 16 00-0568	EA		2" Cast Bronze, Solder X Female Threaded Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	274.64 22.20 -17.97 12.70 25.40	56.44
	22 11 16 00-0569	EA		2-1/2" Cast Bronze, Solder X Female Threaded Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	453.22 31.97 -27.31 13.96 27.92	62.12
	<b>22 11 16 00-0570</b>			<b>Cast Bronze, Solder X Male Threaded Union</b> (22 11 16 00-0413)		
	22 11 16 00-0571	EA		1/4" Cast Bronze, Solder X Male Threaded Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.76 5.01 -3.60 4.23 8.47	18.82
	22 11 16 00-0572	EA		3/8" Cast Bronze, Solder X Male Threaded Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	52.24 6.02 -4.32 5.12 10.23	22.70
	22 11 16 00-0573	EA		1/2" Cast Bronze, Solder X Male Threaded Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	55.56 7.01 -4.89 6.35 12.70	28.22
	22 11 16 00-0574	EA		3/4" Cast Bronze, Solder X Male Threaded Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	68.07 8.22 -5.81 7.23 14.46	32.22
	22 11 16 00-0575	EA		1" Cast Bronze, Solder X Male Threaded Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	106.53 11.09 -8.21 8.64 17.29	38.45
	22 11 16 00-0576	EA		1-1/4" Cast Bronze, Solder X Male Threaded Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	124.17 12.56 -9.38 9.53 19.05	42.33
	22 11 16 00-0577	EA		1-1/2" Cast Bronze, Solder X Male Threaded Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	134.27 13.77 -10.24 10.58 21.17	47.04
	22 11 16 00-0578	EA		2" Cast Bronze, Solder X Male Threaded Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	182.54 17.59 -13.36 12.70 25.40	56.44
	22 11 16 00-0579	EA		2-1/2" Cast Bronze, Solder X Male Threaded Union ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	379.92 28.30 -23.65 13.96 27.92	62.12
	<b>22 11 16 00-0580</b>			<b>Copper Caps</b> (22 11 16 00-0413)		
	22 11 16 00-0581	EA		1/4" Copper Cap ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	5.08 0.70 -0.47 0.66 1.32	2.97
	22 11 16 00-0582	EA		3/8" Copper Cap ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	5.76 0.76 -0.52 0.71 1.41	3.13
	22 11 16 00-0583	EA		1/2" Copper Cap ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	5.53 0.78 -0.53 0.75 1.50	3.38
	22 11 16 00-0584	EA		3/4" Copper Cap ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	7.28 0.99 -0.68 0.94 1.88	4.23

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0585	EA		1" Copper Cap .....	10.34	5.35
			For Silver Solder Instead Of 95/5 Solder, Add	1.31	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-0.91	
			For Brazed Fittings Instead Of 95/5 Solder, Add	1.19	
			For Work In Restricted Working Space, Add	2.38	
22 11 16 00-0586	EA		1-1/4" Copper Cap .....	14.09	7.34
			For Silver Solder Instead Of 95/5 Solder, Add	1.79	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.25	
			For Brazed Fittings Instead Of 95/5 Solder, Add	1.63	
			For Work In Restricted Working Space, Add	3.26	
22 11 16 00-0587	EA		1-1/2" Copper Cap .....	17.46	8.63
			For Silver Solder Instead Of 95/5 Solder, Add	2.15	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.51	
			For Brazed Fittings Instead Of 95/5 Solder, Add	1.92	
			For Work In Restricted Working Space, Add	3.84	
22 11 16 00-0588	EA		2" Copper Cap .....	37.09	19.21
			For Silver Solder Instead Of 95/5 Solder, Add	4.70	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.28	
			For Brazed Fittings Instead Of 95/5 Solder, Add	4.27	
			For Work In Restricted Working Space, Add	8.54	
22 11 16 00-0589	EA		2-1/2" Copper Cap .....	69.13	29.23
			For Silver Solder Instead Of 95/5 Solder, Add	7.79	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.62	
			For Brazed Fittings Instead Of 95/5 Solder, Add	6.49	
			For Work In Restricted Working Space, Add	12.99	
22 11 16 00-0590	EA		3" Copper Cap .....	93.82	38.35
			For Silver Solder Instead Of 95/5 Solder, Add	10.37	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.53	
			For Brazed Fittings Instead Of 95/5 Solder, Add	8.52	
			For Work In Restricted Working Space, Add	17.04	
22 11 16 00-0591	EA		4" Copper Cap .....	137.50	45.66
			For Silver Solder Instead Of 95/5 Solder, Add	13.64	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.26	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.15	
			For Work In Restricted Working Space, Add	20.29	
22 11 16 00-0592	EA		5" Cast Bronze Cap .....	584.97	62.66
			For Silver Solder Instead Of 95/5 Solder, Add	38.64	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-33.95	
			For Brazed Fittings Instead Of 95/5 Solder, Add	14.09	
			For Work In Restricted Working Space, Add	28.18	
22 11 16 00-0593	EA		6" Cast Bronze Cap .....	1,098.55	81.17
			For Silver Solder Instead Of 95/5 Solder, Add	66.95	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-60.94	
			For Brazed Fittings Instead Of 95/5 Solder, Add	18.04	
			For Work In Restricted Working Space, Add	36.07	
22 11 16 00-0594	EA		8" Cast Bronze Cap .....	1,414.79	116.88
			For Silver Solder Instead Of 95/5 Solder, Add	88.06	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-79.40	
			For Brazed Fittings Instead Of 95/5 Solder, Add	25.97	
			For Work In Restricted Working Space, Add	51.95	
22 11 16 00-0595			<b>Copper Crosses (22 11 16 00-0413)</b>		
22 11 16 00-0596	EA		1/2" Copper Cross .....	80.03	47.62
			For Silver Solder Instead Of 95/5 Solder, Add	11.14	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.57	
			For Brazed Fittings Instead Of 95/5 Solder, Add	10.71	
			For Work In Restricted Working Space, Add	21.43	
22 11 16 00-0597	EA		3/4" Copper Cross .....	105.45	59.20
			For Silver Solder Instead Of 95/5 Solder, Add	14.15	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-9.71	
			For Brazed Fittings Instead Of 95/5 Solder, Add	13.31	
			For Work In Restricted Working Space, Add	26.62	
22 11 16 00-0598	EA		1" Copper Cross .....	134.44	70.67
			For Silver Solder Instead Of 95/5 Solder, Add	17.33	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.03	
			For Brazed Fittings Instead Of 95/5 Solder, Add	15.91	
			For Work In Restricted Working Space, Add	31.82	
22 11 16 00-0599	EA		1-1/4" Copper Cross .....	155.51	76.51
			For Silver Solder Instead Of 95/5 Solder, Add	19.25	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.51	
			For Brazed Fittings Instead Of 95/5 Solder, Add	17.21	
			For Work In Restricted Working Space, Add	34.42	
22 11 16 00-0600	EA		1-1/2" Copper Cross .....	183.69	83.66
			For Silver Solder Instead Of 95/5 Solder, Add	21.74	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-15.46	
			For Brazed Fittings Instead Of 95/5 Solder, Add	18.83	
			For Work In Restricted Working Space, Add	37.67	
22 11 16 00-0601	EA		2" Copper Cross .....	250.54	93.83
			For Silver Solder Instead Of 95/5 Solder, Add	26.60	
			For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.56	
			For Brazed Fittings Instead Of 95/5 Solder, Add	21.10	
			For Work In Restricted Working Space, Add	42.21	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0602	EA		2-1/2" Copper Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	409.06 36.04 -28.25 23.38 46.76	103.90
<b>22 11 16 00-0603 Cast Bronze Crosses</b> <small>(22 11 16 00-0413)</small>					
22 11 16 00-0604	EA		3/8" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.41 8.37 -5.77 7.79 15.59	34.63
22 11 16 00-0605	EA		1/2" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.75 11.23 -7.66 10.71 21.43	47.62
22 11 16 00-0606	EA		3/4" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	108.79 14.31 -9.88 13.31 26.62	59.20
22 11 16 00-0607	EA		1" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.11 17.61 -12.31 15.91 31.82	70.67
22 11 16 00-0608	EA		1-1/4" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	163.67 19.66 -13.92 17.21 34.42	76.51
22 11 16 00-0609	EA		1-1/2" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	195.32 22.32 -16.04 18.83 37.67	83.66
22 11 16 00-0610	EA		2" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	272.50 27.69 -20.66 21.10 42.21	93.83
22 11 16 00-0611	EA		2-1/2" Cast Bronze Cross ..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	459.70 38.57 -30.78 23.38 46.76	103.90
<b>22 11 16 00-0612 Flexible Corrugated Copper Supply Line</b> <small>(22 11 16 00-0413)</small>					
22 11 16 00-0613	EA		3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line .....	74.12	32.22
22 11 16 00-0614	EA		3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line .....	77.24	32.22
22 11 16 00-0615	EA		3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line .....	68.51	32.22
22 11 16 00-0616	EA		3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line .....	72.04	32.22
22 11 16 00-0617	EA		3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line .....	75.16	32.22
22 11 16 00-0618	EA		3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line .....	77.24	32.22
<b>22 11 16 00-0619 Cut And Prepare Existing In-Place Copper Pipe</b> <small>(22 11 16 00-0345)</small>					
22 11 16 00-0620	EA		Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....	11.75	
22 11 16 00-0621	EA		3/4", Cut And Prepare Existing In Place Copper Pipe.....	12.70	
22 11 16 00-0622	EA		1", Cut And Prepare Existing In Place Copper Pipe.....	14.29	
22 11 16 00-0623	EA		1-1/4", Cut And Prepare Existing In Place Copper Pipe.....	14.99	
22 11 16 00-0624	EA		1-1/2", Cut And Prepare Existing In Place Copper Pipe.....	15.87	
22 11 16 00-0625	EA		2", Cut And Prepare Existing In Place Copper Pipe.....	17.46	
22 11 16 00-0626	EA		2-1/2", Cut And Prepare Existing In Place Copper Pipe.....	18.82	
22 11 16 00-0627	EA		3", Cut And Prepare Existing In Place Copper Pipe.....	22.22	
22 11 16 00-0628	EA		4", Cut And Prepare Existing In Place Copper Pipe.....	29.99	
22 11 16 00-0629	EA		6", Cut And Prepare Existing In Place Copper Pipe.....	42.85	
22 11 16 00-0630	EA		8", Cut And Prepare Existing In Place Copper Pipe.....	57.15	
<b>22 11 16 00-0631 Sweat Brass Companion Flanges</b> <small>(22 11 16 00-0345)</small>					
22 11 16 00-0632	EA		1" Sweat Brass Companion Flange.....	50.78	18.07
22 11 16 00-0633	EA		1-1/4" Sweat Brass Companion Flange.....	55.52	19.91
22 11 16 00-0634	EA		1-1/2" Sweat Brass Companion Flange.....	75.41	21.65
22 11 16 00-0635	EA		2" Sweat Brass Companion Flange.....	97.99	24.03
22 11 16 00-0636	EA		2-1/2" Sweat Brass Companion Flange.....	122.99	28.89
22 11 16 00-0637	EA		3" Sweat Brass Companion Flange.....	139.29	37.88
22 11 16 00-0638	EA		4" Sweat Brass Companion Flange.....	182.73	45.13
22 11 16 00-0639	EA		5" Sweat Brass Companion Flange.....	337.69	50.92
22 11 16 00-0640	EA		6" Sweat Brass Companion Flange.....	402.62	73.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0641 EA 8" Copper Companion Flange.....	870.67	105.53
<b>22 11 16 00-0642 Brass Compression Fittings</b> (22 11 16 00-0345)		
<b>22 11 16 00-0643 Brass Compression Unions</b> (22 11 16 00-0642)		
22 11 16 00-0644 EA 1/4" Brass Compression Union.....	18.97	12.70
22 11 16 00-0645 EA 3/8" Brass Compression Union.....	20.07	12.70
22 11 16 00-0646 EA 1/2" Brass Compression Union.....	18.97	12.70
22 11 16 00-0647 EA 5/8" Brass Compression Union.....	18.97	12.70
22 11 16 00-0648 EA 3/4" Brass Compression Union.....	23.46	12.70
22 11 16 00-0649 EA 3/8" x 1/4" Brass Compression Union.....	18.97	12.70
22 11 16 00-0650 EA 1/2" x 3/8" Brass Compression Union.....	18.97	12.70
22 11 16 00-0651 EA 5/8" x 3/8" Brass Compression Union.....	18.97	12.70
22 11 16 00-0652 EA 5/8" x 1/2" Brass Compression Union.....	18.97	12.70
<b>22 11 16 00-0653 Brass Compression Union Elbows</b> (22 11 16 00-0642)		
22 11 16 00-0654 EA 1/4" Brass Compression Union Elbow.....	18.97	12.70
22 11 16 00-0655 EA 3/8" Brass Compression Union Elbow.....	18.97	12.70
22 11 16 00-0656 EA 1/2" Brass Compression Union Elbow.....	18.97	12.70
22 11 16 00-0657 EA 5/8" Brass Compression Union Elbow.....	23.18	12.70
22 11 16 00-0658 EA 3/4" Brass Compression Union Elbow.....	18.97	12.70
22 11 16 00-0659 EA 3/8" x 1/4" Brass Compression Union Elbow.....	18.97	12.70
22 11 16 00-0660 EA 1/2" x 3/8" Brass Compression Union Elbow.....	21.93	12.70
22 11 16 00-0661 EA 5/8" x 3/8" Brass Compression Union Elbow.....	22.15	12.70
22 11 16 00-0662 EA 5/8" x 1/2" Brass Compression Union Elbow.....	25.83	12.70
<b>22 11 16 00-0663 Brass Compression Union Tees</b> (22 11 16 00-0642)		
22 11 16 00-0664 EA 1/4" Brass Compression Union Tee.....	18.97	12.70
22 11 16 00-0665 EA 3/8" Brass Compression Union Tee.....	18.97	12.70
22 11 16 00-0666 EA 1/2" Brass Compression Union Tee.....	18.97	12.70
22 11 16 00-0667 EA 5/8" Brass Compression Union Tee.....	25.16	12.70
22 11 16 00-0668 EA 3/4" Brass Compression Union Tee.....	18.97	12.70
22 11 16 00-0669 EA 3/8" x 3/8" x 1/4" Brass Compression Union Tee.....	22.33	12.70
22 11 16 00-0670 EA 1/2" x 1/2" x 3/8" Brass Compression Union Tee.....	18.97	12.70
22 11 16 00-0671 EA 5/8" x 5/8" x 3/8" Brass Compression Union Tee.....	26.08	12.70
22 11 16 00-0672 EA 5/8" x 5/8" x 1/2" Brass Compression Union Tee.....	26.54	12.70
<b>22 11 16 00-0673 Brass Compression Male Connectors</b> (22 11 16 00-0642)		
22 11 16 00-0674 EA 1/4" Brass Compression Male Connector.....	19.69	12.70
22 11 16 00-0675 EA 3/8" Brass Compression Male Connector.....	19.98	12.70
22 11 16 00-0676 EA 1/2" Brass Compression Male Connector.....	18.97	12.70
22 11 16 00-0677 EA 5/8" Brass Compression Male Connector.....	18.97	12.70
22 11 16 00-0678 EA 3/4" Brass Compression Male Connector.....	22.12	12.58
<b>22 11 16 00-0679 Brass Compression Female Connectors</b> (22 11 16 00-0642)		
22 11 16 00-0680 EA 1/4" Brass Compression Female Connector.....	20.01	12.70
22 11 16 00-0681 EA 3/8" Brass Compression Female Connector.....	20.39	12.70
22 11 16 00-0682 EA 1/2" Brass Compression Female Connector.....	21.04	12.70
22 11 16 00-0683 EA 5/8" Brass Compression Female Connector.....	18.67	12.70
22 11 16 00-0684 EA 3/4" Brass Compression Female Connector.....	25.07	12.47
<b>22 11 16 00-0685 Dielectric Fittings</b> (22 11 16 00-0345)		
<b>22 11 16 00-0686 Copper x Female Iron Pipe Thread Dielectric Unions</b> (22 11 16 00-0685)		
22 11 16 00-0687 EA 1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	48.11	28.22
22 11 16 00-0688 EA 3/4" Copper x Female Iron Pipe Thread Dielectric Union.....	53.99	32.22
22 11 16 00-0689 EA 1" Copper x Female Iron Pipe Thread Dielectric Union.....	63.08	35.39
22 11 16 00-0690 EA 1-1/4" Copper x Female Iron Pipe Thread Dielectric Union.....	74.91	38.96
22 11 16 00-0691 EA 1-1/2" Copper x Female Iron Pipe Thread Dielectric Union.....	89.07	43.29
22 11 16 00-0692 EA 2" Copper x Female Iron Pipe Thread Dielectric Union.....	111.95	51.95
<b>22 11 16 00-0693 Female Brass Thread x Iron Pipe Thread Dielectric Unions</b> (22 11 16 00-0685)		
22 11 16 00-0694 EA 1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	51.75	28.22
22 11 16 00-0695 EA 3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	59.99	32.22
22 11 16 00-0696 EA 1" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	71.00	35.39
22 11 16 00-0697 EA 1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	85.42	38.96
22 11 16 00-0698 EA 1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	102.08	43.29
22 11 16 00-0699 EA 2" Female Brass Thread x Iron Pipe Thread Dielectric Union.....	127.20	51.95
<b>22 11 16 00-0700 Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions</b> (22 11 16 00-0685)		
22 11 16 00-0701 EA 1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	49.44	28.22
22 11 16 00-0702 EA 3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union.....	56.18	32.22



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0703	EA		1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....	63.66	35.39
22 11 16 00-0704	EA		1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....	72.88	38.96
22 11 16 00-0705	EA		1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....	87.06	43.29
22 11 16 00-0706	EA		2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union .....	110.33	51.95
<b>22 11 16 00-0707</b>			<b>Copper x Female Iron Pipe Thread Dielectric Flanges</b> <small>(22 11 16 00-0685)</small>		
22 11 16 00-0708	EA		2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange.....	275.31	133.55
22 11 16 00-0709	EA		3" Copper x Female Iron Pipe Thread Dielectric Flange.....	345.04	168.18
22 11 16 00-0710	EA		4" Copper x Female Iron Pipe Thread Dielectric Flange.....	483.21	228.89
<b>22 11 16 00-0711</b>			<b>Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges</b> <small>(22 11 16 00-0685)</small>		
22 11 16 00-0712	EA		2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	276.80	133.55
22 11 16 00-0713	EA		3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	357.00	168.18
22 11 16 00-0714	EA		4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange.....	621.21	228.89
<b>22 11 16 00-0715</b>			<b>Brass Push-Fit Fittings</b> <small>(22 11 16)</small>		
22 11 16 00-0716	EA		1/4" x 1/4" Brass Push-Fit Coupling..... Note: (Sharkbite)	21.97	11.75
22 11 16 00-0717	EA		3/8" x 3/8" Brass Push-Fit Coupling..... Note: (Sharkbite)	25.95	12.55
22 11 16 00-0718	EA		1/2" x 1/2" Brass Push-Fit Coupling..... Note: (Sharkbite)	27.61	14.11
22 11 16 00-0719	EA		5/8" x 5/8" Brass Push-Fit Coupling..... Note: (Sharkbite)	31.01	15.05
22 11 16 00-0720	EA		3/4" x 3/4" Brass Push-Fit Coupling..... Note: (Sharkbite)	32.07	16.08
22 11 16 00-0721	EA		1" x 1" Brass Push-Fit Coupling..... Note: (Sharkbite)	42.89	19.20
22 11 16 00-0722	EA		1/2" x 3/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	26.78	13.32
22 11 16 00-0723	EA		3/4" x 5/8" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	30.45	14.58
22 11 16 00-0724	EA		1" x 3/4" Brass Push-Fit Reducing Coupling..... Note: (Sharkbite)	42.70	17.64
22 11 16 00-0725	EA		1/4" x 1/4" Brass Push-Fit Elbow .....	22.60	11.75
22 11 16 00-0726	EA		3/8" x 3/8" Brass Push-Fit Elbow .....	28.62	12.55
22 11 16 00-0727	EA		1/2" x 1/2" Brass Push-Fit Elbow .....	27.96	14.11
22 11 16 00-0728	EA		5/8" x 5/8" Brass Push-Fit Elbow .....	32.56	15.05
22 11 16 00-0729	EA		3/4" x 3/4" Brass Push-Fit Elbow .....	31.63	16.08
22 11 16 00-0730	EA		1" x 1" Brass Push-Fit Elbow .....	43.24	19.20
22 11 16 00-0731	EA		1/2" x 3/8" Brass Push-Fit Reducing Elbow .....	26.49	13.32
22 11 16 00-0732	EA		3/4" x 1/2" Brass Push-Fit Reducing Elbow .....	29.34	14.58
22 11 16 00-0733	EA		1" x 3/4" Brass Push-Fit Reducing Elbow .....	50.34	17.64
22 11 16 00-0734	EA		1/4" x 1/4" x 1/4" Brass Push-Fit Tee..... Note: (Sharkbite)	34.15	17.64
22 11 16 00-0735	EA		3/8" x 3/8" x 3/8" Brass Push-Fit Tee..... Note: (Sharkbite)	40.97	18.82
22 11 16 00-0736	EA		1/2" x 1/2" x 1/2" Brass Push-Fit Tee..... Note: (Sharkbite)	40.07	21.17
22 11 16 00-0737	EA		5/8" x 5/8" x 5/8" Brass Push-Fit Tee..... Note: (Sharkbite)	48.18	22.58
22 11 16 00-0738	EA		3/4" x 3/4" x 3/4" Brass Push-Fit Tee..... Note: (Sharkbite)	46.37	24.10
22 11 16 00-0739	EA		1" x 1" x 1" Brass Push-Fit Tee..... Note: (Sharkbite)	60.69	28.81
22 11 16 00-0740	EA		1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	42.53	19.99
22 11 16 00-0741	EA		1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	42.94	20.38
22 11 16 00-0742	EA		3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	44.67	23.13
22 11 16 00-0743	EA		1" x 1" x 3/4" Brass Push-Fit Reducing Tee..... Note: (Sharkbite)	58.42	27.25
22 11 16 00-0744	EA		1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	25.47	12.93
22 11 16 00-0745	EA		3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	25.52	13.32
22 11 16 00-0746	EA		1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	25.83	14.11
22 11 16 00-0747	EA		3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector..... Note: (Sharkbite)	29.52	16.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0748 EA 1" x 1" Brass Push-Fit Pipe To FNPT Connector ..... Note: (Sharkbite)	39.30	19.20
22 11 16 00-0749 EA 1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	23.32	12.93
22 11 16 00-0750 EA 3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	25.52	13.32
22 11 16 00-0751 EA 1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	25.88	14.11
22 11 16 00-0752 EA 3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	29.32	16.08
22 11 16 00-0753 EA 5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	30.64	15.55
22 11 16 00-0754 EA 1" x 3/4" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	36.09	17.64
22 11 16 00-0755 EA 1" x 1" Brass Push-Fit Pipe To MNPT Connector ..... Note: (Sharkbite)	39.70	19.20
22 11 16 00-0756 EA 1/2" Brass Push-Fit Ball Valve ..... Note: (Sharkbite)	33.25	14.11
22 11 16 00-0757 EA 3/4" Brass Push-Fit Ball Valve ..... Note: (Sharkbite)	38.58	16.08
22 11 16 00-0758 EA 1" Brass Push-Fit Ball Valve ..... Note: (Sharkbite)	49.67	19.20
22 11 16 00-0759 EA 1/2" Brass Push-Fit Check Valve ..... Note: (Sharkbite)	34.97	14.11
22 11 16 00-0760 EA 3/4" Brass Push-Fit Check Valve ..... Note: (Sharkbite)	41.49	16.08
22 11 16 00-0761 EA 1" Brass Push-Fit Check Valve ..... Note: (Sharkbite)	64.79	19.20
<b>22 11 16 00-0762 Copper Pipe Assemblies</b> <sup>(22 11 16)</sup> Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0763 LF 1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	21.37	3.30
<i>For Type K Tubing Instead Of Type L, Add</i>	1.25	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-1.09	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2.91	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.99	
<i>For Work In Restricted Working Space, Add</i>	5.52	
22 11 16 00-0764 LF 3/4" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	24.41	4.23
<i>For Type K Tubing Instead Of Type L, Add</i>	1.45	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-1.26	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.31	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.26	
<i>For Work In Restricted Working Space, Add</i>	6.26	
22 11 16 00-0765 LF 1" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	26.37	5.05
<i>For Type K Tubing Instead Of Type L, Add</i>	1.66	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-1.42	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.50	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.41	
<i>For Work In Restricted Working Space, Add</i>	6.55	
22 11 16 00-0766 LF 1-1/4" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	28.94	5.88
<i>For Type K Tubing Instead Of Type L, Add</i>	2.00	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-1.66	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.72	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.58	
<i>For Work In Restricted Working Space, Add</i>	6.81	
<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-0.62	
22 11 16 00-0767 LF 1-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	31.71	6.70
<i>For Type K Tubing Instead Of Type L, Add</i>	2.28	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-1.87	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.01	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.80	
<i>For Work In Restricted Working Space, Add</i>	7.26	
<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-0.75	
22 11 16 00-0768 LF 2" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available.	38.78	8.35
<i>For Type K Tubing Instead Of Type L, Add</i>	3.02	
<i>For Type M Tubing Instead Of Type L, Deduct</i>	-2.43	
<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.72	
<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.33	
<i>For Work In Restricted Working Space, Add</i>	8.36	
<i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i>	-1.09	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 16 00-0769	LF		2-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 4.01 <i>For Type M Tubing Instead Of Type L, Deduct</i> -3.13 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 5.29 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.79 <i>For Work In Restricted Working Space, Add</i> 8.96 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.61	45.99	10.06
	22 11 16 00-0770	LF		3" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 5.15 <i>For Type M Tubing Instead Of Type L, Deduct</i> -3.95 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 5.96 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -4.34 <i>For Work In Restricted Working Space, Add</i> 9.70 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -2.21	54.44	11.69
	22 11 16 00-0771	LF		4" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 8.55 <i>For Type M Tubing Instead Of Type L, Deduct</i> -6.41 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 8.25 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -6.15 <i>For Work In Restricted Working Space, Add</i> 12.55 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -3.94	81.26	15.48
	22 11 16 00-0772	LF		5" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 16.84 <i>For Type M Tubing Instead Of Type L, Deduct</i> -12.25 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 12.26 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -9.58 <i>For Work In Restricted Working Space, Add</i> 16.10 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -8.42	137.90	19.27
	22 11 16 00-0773	LF		6" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 22.10 <i>For Type M Tubing Instead Of Type L, Deduct</i> -16.06 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 15.78 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -12.37 <i>For Work In Restricted Working Space, Add</i> 20.45 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -11.11	179.28	23.27
	22 11 16 00-0774	LF		8" Inside Diameter Copper Pipe/Tubing Type L Assembly ..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 53.61 <i>For Type M Tubing Instead Of Type L, Deduct</i> -37.95 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 27.11 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -22.87 <i>For Work In Restricted Working Space, Add</i> 25.42 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -28.80	372.72	27.82
	22 11 16 00-0775			Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
	22 11 16 00-0776			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0775)		
	22 11 16 00-0777			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0776)		
	22 11 16 00-0778	LF		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i> 1.30	5.59	1.73
	22 11 16 00-0779	LF		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i> 1.36	6.27	1.82
	22 11 16 00-0780	LF		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i> 1.47	7.42	1.96
	22 11 16 00-0781	LF		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i> 1.61	8.85	2.13
	22 11 16 00-0782	LF		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i> 1.77	10.14	2.36
	22 11 16 00-0783	LF		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i> 1.98	12.46	2.64
	22 11 16 00-0784	LF		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i> 2.25	16.48	3.00
	22 11 16 00-0785	LF		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i> 2.66	20.85	3.55
	22 11 16 00-0786	LF		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i> 3.27	28.48	4.36
	22 11 16 00-0787	LF		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i> 4.16	47.87	5.54
	22 11 16 00-0788	LF		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i> 5.45	68.35	7.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 11 16 00-0789</b> <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows</b> <small>(22 11 16 00-0776)</small>		
22 11 16 00-0790      EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	22.53	8.22
For Work In Restricted Working Space, Add .....	6.17	
22 11 16 00-0791      EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	29.04	10.39
For Work In Restricted Working Space, Add .....	7.79	
22 11 16 00-0792      EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	37.42	12.98
For Work In Restricted Working Space, Add .....	9.77	
22 11 16 00-0793      EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	50.03	16.23
For Work In Restricted Working Space, Add .....	12.21	
22 11 16 00-0794      EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	55.56	17.97
For Work In Restricted Working Space, Add .....	13.51	
22 11 16 00-0795      EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	64.43	17.97
For Work In Restricted Working Space, Add .....	15.07	
22 11 16 00-0796      EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	94.17	22.83
For Work In Restricted Working Space, Add .....	17.15	
22 11 16 00-0797      EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	107.77	27.06
For Work In Restricted Working Space, Add .....	20.26	
22 11 16 00-0798      EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	150.21	33.23
For Work In Restricted Working Space, Add .....	24.94	
22 11 16 00-0799      EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	189.72	42.21
For Work In Restricted Working Space, Add .....	31.69	
22 11 16 00-0800      EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow .....	344.34	55.42
For Work In Restricted Working Space, Add .....	41.56	
<b>22 11 16 00-0801</b> <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows</b> <small>(22 11 16 00-0776)</small>		
22 11 16 00-0802      EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	23.52	8.22
For Work In Restricted Working Space, Add .....	6.17	
22 11 16 00-0803      EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	30.22	10.39
For Work In Restricted Working Space, Add .....	7.79	
22 11 16 00-0804      EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	39.33	12.98
For Work In Restricted Working Space, Add .....	9.77	
22 11 16 00-0805      EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	52.55	16.23
For Work In Restricted Working Space, Add .....	12.21	
22 11 16 00-0806      EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	58.63	17.97
For Work In Restricted Working Space, Add .....	13.51	
22 11 16 00-0807      EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	65.47	20.13
For Work In Restricted Working Space, Add .....	15.07	
22 11 16 00-0808      EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	94.83	22.83
For Work In Restricted Working Space, Add .....	17.15	
22 11 16 00-0809      EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	107.68	27.06
For Work In Restricted Working Space, Add .....	20.26	
22 11 16 00-0810      EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	138.19	33.23
For Work In Restricted Working Space, Add .....	24.94	
22 11 16 00-0811      EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	212.26	42.21
For Work In Restricted Working Space, Add .....	31.69	
22 11 16 00-0812      EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow .....	360.30	55.42
For Work In Restricted Working Space, Add .....	41.56	
<b>22 11 16 00-0813</b> <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees</b> <small>(22 11 16 00-0776)</small>		
22 11 16 00-0814      EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....	34.43	12.34
For Work In Restricted Working Space, Add .....	9.25	
22 11 16 00-0815      EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....	44.68	15.59
For Work In Restricted Working Space, Add .....	11.69	
22 11 16 00-0816      EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....	55.95	19.59
For Work In Restricted Working Space, Add .....	14.67	
22 11 16 00-0817      EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....	75.87	24.46
For Work In Restricted Working Space, Add .....	18.31	
22 11 16 00-0818      EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....	84.55	27.06
For Work In Restricted Working Space, Add .....	20.26	
22 11 16 00-0819      EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....	100.70	30.09
For Work In Restricted Working Space, Add .....	22.60	
22 11 16 00-0820      EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....	127.39	34.31
For Work In Restricted Working Space, Add .....	25.72	
22 11 16 00-0821      EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....	146.64	40.47
For Work In Restricted Working Space, Add .....	30.39	
22 11 16 00-0822      EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....	178.23	49.89
For Work In Restricted Working Space, Add .....	37.40	
22 11 16 00-0823      EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....	263.10	63.42
For Work In Restricted Working Space, Add .....	47.53	
22 11 16 00-0824      EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee .....	507.42	83.12
For Work In Restricted Working Space, Add .....	62.34	
<b>22 11 16 00-0825</b> <b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses</b> <small>(22 11 16 00-0776)</small>		
22 11 16 00-0826      EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross .....	44.22	16.45
For Work In Restricted Working Space, Add .....	12.34	
22 11 16 00-0827      EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross .....	56.88	20.78
For Work In Restricted Working Space, Add .....	15.59	
22 11 16 00-0828      EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross .....	71.22	26.08
For Work In Restricted Working Space, Add .....	19.55	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0829	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	94.17 24.42	32.57
22 11 16 00-0830	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	104.69 27.01	36.04
22 11 16 00-0831	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	122.28 30.13	40.15
22 11 16 00-0832	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	150.18 34.29	45.67
22 11 16 00-0833	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	174.11 40.52	54.01
22 11 16 00-0834	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	212.36 49.87	66.45
22 11 16 00-0835	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	301.39 63.38	84.52
22 11 16 00-0836	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross <i>For Work In Restricted Working Space, Add</i>	535.12 83.12	110.82
22 11 16 00-0837			<b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts</b> <small>(22 11 16 00-0776)</small>		
22 11 16 00-0838	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	20.23 5.72	7.58
22 11 16 00-0839	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	27.95 7.70	10.28
22 11 16 00-0840	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	44.06 10.07	13.42
22 11 16 00-0841	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	49.54 11.14	14.82
22 11 16 00-0842	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	57.74 12.44	16.56
22 11 16 00-0843	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	63.48 14.16	18.83
22 11 16 00-0844	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	76.61 16.72	22.29
22 11 16 00-0845	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	102.05 20.58	27.38
22 11 16 00-0846	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	158.35 26.14	34.84
22 11 16 00-0847	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert <i>For Work In Restricted Working Space, Add</i>	328.58 34.29	45.67
22 11 16 00-0848			<b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts</b> <small>(22 11 16 00-0776)</small>		
22 11 16 00-0849	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	21.25 4.06	5.41
22 11 16 00-0850	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	27.37 5.72	7.58
22 11 16 00-0851	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	34.58 7.70	10.28
22 11 16 00-0852	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	43.49 10.07	13.42
22 11 16 00-0853	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	50.38 11.14	14.82
22 11 16 00-0854	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	61.96 12.44	16.56
22 11 16 00-0855	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	91.03 14.16	18.83
22 11 16 00-0856	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	170.25 16.72	22.29
22 11 16 00-0857	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert <i>For Work In Restricted Working Space, Add</i>	249.09 20.58	27.38
22 11 16 00-0858			<b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters</b> <small>(22 11 16 00-0776)</small>		
22 11 16 00-0859	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	16.49 4.06	5.41
22 11 16 00-0860	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	23.05 5.72	7.58
22 11 16 00-0861	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	32.39 7.70	10.28
22 11 16 00-0862	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	43.49 10.07	13.42
22 11 16 00-0863	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	50.58 11.14	14.82
22 11 16 00-0864	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <i>For Work In Restricted Working Space, Add</i>	59.63 12.44	16.56

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0865 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	81.61	18.83
<i>For Work In Restricted Working Space, Add</i>	14.16	
22 11 16 00-0866 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	97.36	22.29
<i>For Work In Restricted Working Space, Add</i>	16.72	
22 11 16 00-0867 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters.....	138.98	27.38
<i>For Work In Restricted Working Space, Add</i>	20.58	
<b>22 11 16 00-0868 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters (22 11 16 00-0776)</b>		
22 11 16 00-0869 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	17.61	5.41
<i>For Work In Restricted Working Space, Add</i>	4.06	
22 11 16 00-0870 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	23.41	7.58
<i>For Work In Restricted Working Space, Add</i>	5.72	
22 11 16 00-0871 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	32.48	10.28
<i>For Work In Restricted Working Space, Add</i>	7.70	
22 11 16 00-0872 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	43.82	13.42
<i>For Work In Restricted Working Space, Add</i>	10.07	
22 11 16 00-0873 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	49.07	14.82
<i>For Work In Restricted Working Space, Add</i>	11.14	
22 11 16 00-0874 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	58.40	16.56
<i>For Work In Restricted Working Space, Add</i>	12.44	
22 11 16 00-0875 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	82.32	18.83
<i>For Work In Restricted Working Space, Add</i>	14.16	
22 11 16 00-0876 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	109.79	22.29
<i>For Work In Restricted Working Space, Add</i>	16.72	
22 11 16 00-0877 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	160.12	27.38
<i>For Work In Restricted Working Space, Add</i>	20.58	
<b>22 11 16 00-0878 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 11 16 00-0776)</b>		
22 11 16 00-0879 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	14.86	4.97
<i>For Work In Restricted Working Space, Add</i>	3.70	
22 11 16 00-0880 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	20.88	6.92
<i>For Work In Restricted Working Space, Add</i>	5.20	
22 11 16 00-0881 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	28.06	9.31
<i>For Work In Restricted Working Space, Add</i>	6.98	
22 11 16 00-0882 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	37.67	12.23
<i>For Work In Restricted Working Space, Add</i>	9.16	
22 11 16 00-0883 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	42.78	13.53
<i>For Work In Restricted Working Space, Add</i>	10.13	
22 11 16 00-0884 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	48.12	15.05
<i>For Work In Restricted Working Space, Add</i>	11.30	
22 11 16 00-0885 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	67.93	17.10
<i>For Work In Restricted Working Space, Add</i>	12.86	
22 11 16 00-0886 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	75.98	20.24
<i>For Work In Restricted Working Space, Add</i>	15.20	
22 11 16 00-0887 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	95.53	24.89
<i>For Work In Restricted Working Space, Add</i>	18.70	
22 11 16 00-0888 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	144.70	31.71
<i>For Work In Restricted Working Space, Add</i>	23.77	
22 11 16 00-0889 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	236.57	41.56
<i>For Work In Restricted Working Space, Add</i>	31.17	
<b>22 11 16 00-0890 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0776)</b>		
22 11 16 00-0891 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	25.55	5.95
<i>For Work In Restricted Working Space, Add</i>	4.45	
22 11 16 00-0892 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	32.04	8.33
<i>For Work In Restricted Working Space, Add</i>	6.23	
22 11 16 00-0893 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	39.53	11.15
<i>For Work In Restricted Working Space, Add</i>	8.38	
22 11 16 00-0894 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	63.88	14.61
<i>For Work In Restricted Working Space, Add</i>	10.97	
22 11 16 00-0895 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	68.26	16.23
<i>For Work In Restricted Working Space, Add</i>	12.14	
22 11 16 00-0896 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	91.35	18.07
<i>For Work In Restricted Working Space, Add</i>	13.57	
22 11 16 00-0897 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	147.03	20.56
<i>For Work In Restricted Working Space, Add</i>	15.42	
22 11 16 00-0898 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	205.32	24.35
<i>For Work In Restricted Working Space, Add</i>	18.25	
22 11 16 00-0899 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	320.43	29.87
<i>For Work In Restricted Working Space, Add</i>	22.43	
22 11 16 00-0900 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	426.79	37.99
<i>For Work In Restricted Working Space, Add</i>	28.51	
22 11 16 00-0901 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	529.93	49.89
<i>For Work In Restricted Working Space, Add</i>	37.40	
<b>22 11 16 00-0902 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0776)</b>		
22 11 16 00-0903 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap.....	8.08	1.63
<i>For Work In Restricted Working Space, Add</i>	1.23	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0904	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	14.29 2.60	3.47
22 11 16 00-0905	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	23.93 4.19	5.63
22 11 16 00-0906	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	26.19 4.58	6.06
22 11 16 00-0907	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	28.03 5.06	6.71
22 11 16 00-0908	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	36.77 5.65	7.58
22 11 16 00-0909	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	53.74 6.43	8.55
22 11 16 00-0910	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	58.38 7.60	10.17
22 11 16 00-0911	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	86.92 9.35	12.44
22 11 16 00-0912	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	178.33 11.88	15.80
22 11 16 00-0913	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	230.07 15.59	20.78
<b>22 11 16 00-0914</b>			<b>Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges</b> <small>(22 11 16 00-0776)</small>		
22 11 16 00-0915	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	19.43 2.96	3.90
22 11 16 00-0916	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	24.12 4.16	5.52
22 11 16 00-0917	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	30.06 5.58	7.47
22 11 16 00-0918	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	36.23 7.34	9.74
22 11 16 00-0919	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	39.11 8.12	10.82
22 11 16 00-0920	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	46.11 9.03	12.01
22 11 16 00-0921	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	59.31 10.29	13.75
22 11 16 00-0922	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	67.74 12.14	16.23
22 11 16 00-0923	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	84.45 14.97	19.91
22 11 16 00-0924	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	117.75 19.03	25.33
22 11 16 00-0925	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	205.68 24.94	33.23
<b>22 11 16 00-0926</b>			<b>Cross-Linked Polyethylene Tubing, ASTM F877</b> <small>(22 11 16)</small> Note: Aboveground, domestic water usage.		
<b>22 11 16 00-0927</b>			<b>Cross-Linked Polyethylene Tubing</b> <small>(22 11 16 00-0926)</small>		
22 11 16 00-0928	LF		3/8" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	3.78 1.02	
22 11 16 00-0929	LF		1/2" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	4.09 1.10	
22 11 16 00-0930	LF		3/4" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	4.72 1.19	
22 11 16 00-0931	LF		1" Cross-Linked Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	5.48 1.26	
<b>22 11 16 00-0932</b>			<b>Cross-Linked Polyethylene Forged Brass PEX Fittings</b> <small>(22 11 16 00-0926)</small> Note: Aboveground, domestic water usage.		
<b>22 11 16 00-0933</b>			<b>Male Adapters</b> <small>(22 11 16 00-0932)</small>		
22 11 16 00-0934	EA		3/8" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	20.50 5.29	
22 11 16 00-0935	EA		1/2" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	22.01 5.65	
22 11 16 00-0936	EA		1/2" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	23.85 6.00	
22 11 16 00-0937	EA		3/4" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	25.03 6.35	
22 11 16 00-0938	EA		3/4" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	23.85 6.00	
22 11 16 00-0939	EA		1" x 1", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	30.31 7.06	
<b>22 11 16 00-0940</b>			<b>Female Adapters</b> <small>(22 11 16 00-0932)</small>		
22 11 16 00-0941	EA		1/2" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing <i>For Work In Restricted Working Space, Add</i>	22.34 5.65	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0942	EA		1/2" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	24.76 6.00	
22 11 16 00-0943	EA		3/4" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	25.94 6.35	
22 11 16 00-0944	EA		3/4" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	24.76 6.00	
22 11 16 00-0945	EA		1" x 1", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	30.73 7.06	
<b>22 11 16 00-0946</b>			<b>Tube Adapters</b> (22 11 16 00-0932)		
22 11 16 00-0947	EA		3/8" x 1/2" Forged Brass Tube Adapter For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	19.14 5.29	
22 11 16 00-0948	EA		1/2" Forged Brass Tube Adapter For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	20.32 5.65	
22 11 16 00-0949	EA		3/4" Forged Brass Tube Adapter For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	23.94 6.35	
22 11 16 00-0950	EA		1" Forged Brass Tube Adapter For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	29.46 7.06	
<b>22 11 16 00-0951</b>			<b>Plugs</b> (22 11 16 00-0932)		
22 11 16 00-0952	EA		3/8" Forged Brass Plug For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	9.40 2.47	
22 11 16 00-0953	EA		1/2" Forged Brass Plug For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	10.57 2.82	
22 11 16 00-0954	EA		3/4" Forged Brass Plug For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	12.08 3.17	
22 11 16 00-0955	EA		1" Forged Brass Plug For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	14.52 3.53	
<b>22 11 16 00-0956</b>			<b>Tees</b> (22 11 16 00-0932)		
22 11 16 00-0957	EA		3/8" Forged Brass Tee For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	27.14 7.41	
22 11 16 00-0958	EA		1/2" Forged Brass Tee For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	30.66 8.47	
22 11 16 00-0959	EA		3/4" Forged Brass Tee For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	35.86 9.53	
22 11 16 00-0960	EA		1" Forged Brass Tee For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	44.06 10.58	
22 11 16 00-0961	EA		1/2" Forged Brass Reducing Tee For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	29.49 8.12	
22 11 16 00-0962	EA		3/4" Forged Brass Reducing Tee For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	33.51 8.82	
22 11 16 00-0963	EA		1" Forged Brass Reducing Tee For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	39.88 9.53	
<b>22 11 16 00-0964</b>			<b>Couplings</b> (22 11 16 00-0932)		
22 11 16 00-0965	EA		3/8" Forged Brass Coupling For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	17.72 4.94	
22 11 16 00-0966	EA		1/2" Forged Brass Coupling For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	20.15 5.65	
22 11 16 00-0967	EA		3/4" Forged Brass Coupling For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	22.92 6.35	
22 11 16 00-0968	EA		1" Forged Brass Coupling For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	27.21 7.06	
22 11 16 00-0969	EA		3/4" x 1/2" Forged Brass Reducing Coupling For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	21.74 6.00	
22 11 16 00-0970	EA		1" x 3/4" Forged Brass Reducing Coupling For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	26.03 6.70	
<b>22 11 16 00-0971</b>			<b>Fitting Reducers</b> (22 11 16 00-0932)		
22 11 16 00-0972	EA		3/8" x 1/2" Forged Brass Fitting Reducer For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	19.39 5.29	
22 11 16 00-0973	EA		1/2" Forged Brass Fitting Reducer For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	20.57 5.65	
22 11 16 00-0974	EA		3/4" Forged Brass Fitting Reducer For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	24.44 6.35	
22 11 16 00-0975	EA		1" Forged Brass Fitting Reducer For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	32.31 7.06	
<b>22 11 16 00-0976</b>			<b>90 Degree Elbows</b> (22 11 16 00-0932)		
22 11 16 00-0977	EA		3/8" Forged Brass 90 Degree Elbow For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	18.47 4.94	
22 11 16 00-0978	EA		1/2" Forged Brass 90 Degree Elbow For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	20.82 5.65	
22 11 16 00-0979	EA		3/4" Forged Brass 90 Degree Elbow For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	24.44 6.35	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0980	EA		3/4" x 1/2" Forged Brass 90 Degree Elbow For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	23.26 6.00	
22 11 16 00-0981	EA		1/2" Drop 90 Degree Elbow For PEX Tubing..... <i>For Work In Restricted Working Space, Add</i>	26.03 5.65	
22 11 16 00-0982	EA		3/4" Forged Brass Drop 90 Degree Elbow For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	29.13 6.35	
22 11 16 00-0983	EA		3/4" x 1/2" Forged Brass Drop 90 Degree Elbow For PEX Tubing ..... <i>For Work In Restricted Working Space, Add</i>	27.95 6.00	
<b>22 11 19 Domestic Water Piping Specialties (22 11)</b>					
<b>22 11 19 00-0001 Rubber Hose And Clamps (22 11 19)</b>					
<b>22 11 19 00-0002 General Purpose Hose (22 11 19 00-0001)</b>					
Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.					
22 11 19 00-0003	LF		3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	5.13	2.35
22 11 19 00-0004	LF		1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	5.66	2.35
22 11 19 00-0005	LF		5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	6.29	2.35
22 11 19 00-0006	LF		3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	6.31	2.35
22 11 19 00-0007	LF		1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	7.52	3.52
22 11 19 00-0008	LF		1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	10.12	3.52
22 11 19 00-0009	LF		1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	11.11	4.69
22 11 19 00-0010	LF		2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	17.18	4.69
<b>22 11 19 00-0011 Reinforced EPDM Water Hose Assembly (22 11 19 00-0001)</b>					
Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.					
22 11 19 00-0012	LF		1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	20.55	4.69
22 11 19 00-0013	LF		2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	23.81	4.69
22 11 19 00-0014	LF		3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	33.27	5.78
22 11 19 00-0015	LF		4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	45.42	7.80
<b>22 11 19 00-0016 Chemical Resistant Rubber Hoses (22 11 19 00-0001)</b>					
22 11 19 00-0017	EA		50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose.....	1,222.82	271.59
22 11 19 00-0018	EA		50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose.....	1,668.09	271.59
<b>22 11 19 00-0019 Water Pump Hose (22 11 19 00-0001)</b>					
22 11 19 00-0020	EA		2" Inside Diameter, 20' Rubber Discharge Hose.....	243.95	71.69
22 11 19 00-0021	EA		2" Inside Diameter, 20' Rubber Intake Hose.....	251.72	71.69
<b>22 11 19 00-0022 Serrated Shank Nipple (22 11 19 00-0001)</b>					
Note: For use as medium pressure coupling.					
22 11 19 00-0023	EA		3/8" Inside Diameter Hose x 1/2" Male Pipe Thread Serrated Shank Nipple.....	25.44	5.87
22 11 19 00-0024	EA		1/2" Inside Diameter Hose x 5/8" Male Pipe Thread Serrated Shank Nipple.....	25.32	5.87
22 11 19 00-0025	EA		5/8" Inside Diameter Hose x 3/4" Male Pipe Thread Serrated Shank Nipple.....	25.32	5.87
22 11 19 00-0026	EA		3/4" Inside Diameter Hose x 1" Male Pipe Thread Serrated Shank Nipple.....	32.03	8.21
22 11 19 00-0027	EA		1" Inside Diameter Hose x 1-1/4" Male Pipe Thread Serrated Shank Nipple.....	33.66	8.21
22 11 19 00-0028	EA		1-1/4" Inside Diameter Hose x 1-1/2" Male Pipe Thread Serrated Shank Nipple.....	63.58	15.26
22 11 19 00-0029	EA		1-1/2" Inside Diameter Hose x 2" Male Pipe Thread Serrated Shank Nipple.....	78.97	18.78
<b>22 11 19 00-0030 Worm-Drive Hose Clamp (22 11 19 00-0001)</b>					
22 11 19 00-0031	EA		3/8" To 1" Diameter Worm Drive Hose Clamp.....	11.91	3.52
22 11 19 00-0032	EA		1/2" To 1-1/8" Diameter Worm Drive Hose Clamp.....	12.61	3.52
22 11 19 00-0033	EA		5/8" To 1-1/2" Diameter Worm Drive Hose Clamp.....	13.37	3.52
22 11 19 00-0034	EA		3/4" To 2" Diameter Worm Drive Hose Clamp.....	14.24	3.52
22 11 19 00-0035	EA		1" To 2-1/2" Diameter Worm Drive Hose Clamp.....	15.24	3.52
22 11 19 00-0036	EA		1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp.....	16.46	4.69
22 11 19 00-0037	EA		1-1/2" To 3" Diameter Worm Drive Hose Clamp.....	17.80	4.69
<b>22 11 19 00-0038 Trap Primer And Accessories (22 11 19)</b>					
<b>22 11 19 00-0039 Trap Primer (22 11 19 00-0038)</b>					
22 11 19 00-0040	EA		1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699).....	162.69	17.64
22 11 19 00-0041	EA		1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500).....	101.49	11.75
22 11 19 00-0042	EA		1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500).....	98.97	11.75
<b>22 11 19 00-0043 Trap Primer Distribution Unit (22 11 19 00-0038)</b>					
22 11 19 00-0044	EA		Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U)..... Note: Can be used for two, three or four drains.	109.96	23.52
22 11 19 00-0045	EA		Copper Four Opening Trap Primer Distribution Unit (PPP DU-4)..... Note: Can be used for two, three or four drains.	116.76	23.52



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0046			<b>Trap Primer Manifold</b> (22 11 19 00-0038)		
22 11 19 00-0047	EA		Two Outlet Manifold.....	134.02	31.63
22 11 19 00-0048	EA		Four Outlet Manifold.....	191.83	35.98
22 11 19 00-0049	EA		Six Outlet Manifold.....	246.42	38.10
22 11 19 00-0050	EA		Eight Outlet Manifold.....	306.92	44.69
22 11 19 00-0051			<b>Sewage Air Release Valves</b> (22 11 19)		
22 11 19 00-0052			<b>Cast Iron, Sewage Air Release Valves</b> (22 11 19 00-0051)		
			Note: Stainless steel float.		
22 11 19 00-0053	EA		2" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	708.70	42.93
			<i>For Back Flush Attachment, Add</i>	650.00	
22 11 19 00-0054	EA		3" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	881.27	71.74
			<i>For Back Flush Attachment, Add</i>	650.00	
22 11 19 00-0055	EA		4" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400).....	1,117.25	90.57
			<i>For Back Flush Attachment, Add</i>	650.00	
22 11 19 00-0056			<b>Cast Iron, Sewage Air Vacuum Valves</b> (22 11 19 00-0051)		
			Note: Stainless steel float.		
22 11 19 00-0057	EA		2" x 1" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 401).....	723.53	42.93
			<i>For Back Flush Attachment, Add</i>	650.00	
22 11 19 00-0058	EA		2" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 402).....	1,394.57	42.93
			<i>For Back Flush Attachment, Add</i>	650.00	
22 11 19 00-0059	EA		3" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 403).....	1,685.78	71.74
			<i>For Back Flush Attachment, Add</i>	650.00	
22 11 19 00-0060	EA		4" NPT x 4" With Hood, Cast Iron, Sewage Air Vacuum Valve (Apco 404).....	2,487.13	90.57
22 11 19 00-0061			<b>Cast Iron, Sewage Combination Air Valves</b> (22 11 19 00-0051)		
			Note: Stainless steel float.		
22 11 19 00-0062	EA		2" x 1" NPT, Sewage Combination Air Valve (Apco 443).....	1,516.92	42.93
22 11 19 00-0063	EA		2" x 2" NPT, Sewage Combination Air Valve (Apco 445).....	2,082.29	42.93
22 11 19 00-0064	EA		3" x 3" NPT, Sewage Combination Air Valve (Apco 447).....	2,449.50	71.74
22 11 19 00-0065	EA		4" x 4" NPT, Sewage Combination Air Valve (Apco 449).....	2,996.90	90.57
22 11 19 00-0066			<b>Brass, Anti Siphon Vacuum Breakers</b> (22 11 19)		
			Note: Watts 288A		
22 11 19 00-0067	EA		1/2" Brass, Anti Siphon Vacuum Breaker.....	80.32	29.40
22 11 19 00-0068	EA		3/4" Brass, Anti Siphon Vacuum Breaker.....	91.02	32.92
22 11 19 00-0069	EA		1" Brass, Anti Siphon Vacuum Breaker.....	152.37	37.63
22 11 19 00-0070	EA		1-1/4" Brass, Anti Siphon Vacuum Breaker.....	223.76	43.51
22 11 19 00-0071	EA		1-1/2" Brass, Anti Siphon Vacuum Breaker.....	265.95	48.21
22 11 19 00-0072	EA		2" Brass, Anti Siphon Vacuum Breaker.....	374.64	58.79
22 11 19 00-0073	EA		2-1/2" Brass, Anti Siphon Vacuum Breaker.....	891.18	73.49
22 11 19 00-0074			<b>Anti Siphon Pressure Vacuum Breakers</b> (22 11 19)		
			Note: Watts 800M4QT		
22 11 19 00-0075	EA		1/2" Anti Siphon Pressure Type Vacuum Breaker.....	171.50	29.40
22 11 19 00-0076	EA		3/4" Anti Siphon Pressure Type Vacuum Breaker.....	157.80	32.92
22 11 19 00-0077	EA		1" Anti Siphon Pressure Type Vacuum Breaker.....	214.39	37.63
22 11 19 00-0078	EA		1-1/4" Anti Siphon Pressure Type Vacuum Breaker.....	360.21	43.51
22 11 19 00-0079	EA		1-1/2" Anti Siphon Pressure Type Vacuum Breaker.....	436.23	48.21
22 11 19 00-0080	EA		2" Anti Siphon Pressure Type Vacuum Breaker.....	450.91	58.79
22 11 19 00-0081			<b>Bellows Type Water Hammer Arrestors</b> (22 11 19)		
22 11 19 00-0082	EA		Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005).....	142.62	14.07
22 11 19 00-0083	EA		>11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010).....	267.05	17.02
22 11 19 00-0084	EA		>32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020).....	382.55	17.02
22 11 19 00-0085	EA		>60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030).....	907.81	17.02
22 11 19 00-0086	EA		>113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040).....	1,020.32	17.02
22 11 19 00-0087	EA		>154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050).....	1,246.01	17.02
22 11 19 00-0088			<b>Piston Type Water Hammer Arrestors</b> (22 11 19)		
22 11 19 00-0089			<b>Threaded Piston Type Water Hammer Arrestors</b> (22 11 19 00-0088)		
22 11 19 00-0090	EA		Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A).....	85.38	7.84





	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0091	EA	>11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	157.51	9.04
22 11 19 00-0092	EA	>32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C).....	230.15	9.80
22 11 19 00-0093	EA	>60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D).....	553.78	12.64
22 11 19 00-0094	EA	>113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	674.80	15.67
22 11 19 00-0095	EA	>154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....	766.97	17.02
<b>22 11 19 00-0096</b>		<b>Wall Hydrants</b> <small>(22 11 19)</small>		
		Note: Female inlet connection, 3/4" hose thread outlet.		
<b>22 11 19 00-0097</b>		<b>Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants</b> <small>(22 11 19 00-0096)</small>		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0098	EA	6" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	539.72	29.40
		For Cast Bronze Box, Add	25.60	
		For 1" NPT Outlet, Add	60.34	
22 11 19 00-0099	EA	12" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	574.41	35.27
		For Cast Bronze Box, Add	25.60	
		For 1" NPT Outlet, Add	60.34	
22 11 19 00-0100	EA	18" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	598.49	42.45
		For Cast Bronze Box, Add	25.60	
		For 1" NPT Outlet, Add	60.34	
<b>22 11 19 00-0101</b>		<b>Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants</b> <small>(22 11 19 00-0096)</small>		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0102	EA	Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant .....	580.99	49.39
		For Cast Bronze Box, Add	25.60	
		For 1" NPT Outlet, Add	60.34	
<b>22 11 19 00-0103</b>		<b>Cast Bronze Non-Freezing Wall Hydrant</b> <small>(22 11 19 00-0096)</small>		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0104	EA	3" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant .....	329.59	36.45
		For 1" NPT Outlet, Add	60.34	
22 11 19 00-0105	EA	4" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant .....	394.41	36.45
		For 1" NPT Outlet, Add	60.34	
22 11 19 00-0106	EA	6" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant .....	394.41	36.45
		For 1" NPT Outlet, Add	60.34	
22 11 19 00-0107	EA	8" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant .....	394.41	36.45
		For 1" NPT Outlet, Add	60.34	
22 11 19 00-0108	EA	10" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant .....	409.50	73.49
		For 1" NPT Outlet, Add	60.34	
22 11 19 00-0109	EA	12" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant .....	409.50	73.49
		For 1" NPT Outlet, Add	60.34	
22 11 19 00-0110	EA	18" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant .....	454.63	73.49
		For 1" NPT Outlet, Add	60.34	
<b>22 11 19 00-0111</b>		<b>Stainless Steel Box Type Wall Hydrants</b> <small>(22 11 19 00-0096)</small>		
		Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0112	EA	Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	288.17	29.40
22 11 19 00-0113	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141) .....	310.79	29.40
22 11 19 00-0114	EA	Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	313.87	29.40
22 11 19 00-0115	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151) .....	347.80	29.40
22 11 19 00-0116	EA	Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145).....	481.51	41.15
		Note: Includes hot and cold hose connections.		
22 11 19 00-0117	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146) .....	494.87	41.15
		Note: Includes hot and cold hose connections.		
22 11 19 00-0118	EA	Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155).....	494.87	41.15
		Note: Includes hot and cold hose connections.		
22 11 19 00-0119	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156) .....	526.74	41.15
		Note: Includes hot and cold hose connections.		
<b>22 11 19 00-0120</b>		<b>Washer Boxes And Dryer Outlets</b> <small>(22 11 19)</small>		
<b>22 11 19 00-0121</b>		<b>Dryer Vent Kit</b> <small>(22 11 19 00-0120)</small>		
		Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		
22 11 19 00-0122	EA	Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps .....	77.00	15.29
<b>22 11 19 00-0123</b>		<b>Washer Boxes And Dryer Vents</b> <small>(22 11 19 00-0120)</small>		
		Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0124	EA	2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves .....	275.50	23.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 11 19 00-0125</b>	<b>Ice Maker Outlet Box</b> <small>(22 11 19)</small>	
Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0126 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	140.04	23.52
22 11 19 00-0127 EA Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount.....	166.38	23.52
22 11 19 00-0128 EA Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	180.87	23.52
<b>22 11 19 00-0129</b>	<b>Tempering Controllers For Potable Hot Water</b> <small>(22 11 19)</small>	
<b>22 11 19 00-0130</b>	<b>Point-Of-Use Thermostatic Mixing Valves (Bradley)</b> <small>(22 11 19 00-0129)</small>	
Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.		
22 11 19 00-0131 EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007).....	331.91	28.46
22 11 19 00-0132 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004).....	157.52	28.46
22 11 19 00-0133 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008).....	198.23	28.46
22 11 19 00-0134 EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016).....	231.83	38.35
<b>22 11 19 00-0135</b>	<b>Thermostatic Mixing Valves (Bradley)</b> <small>(22 11 19 00-0129)</small>	
Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.		
22 11 19 00-0136 EA 3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025).....	874.04	41.05
22 11 19 00-0137 EA 3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045).....	984.44	50.56
22 11 19 00-0138 EA 1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080).....	1,182.00	58.81
22 11 19 00-0139 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130).....	1,521.36	61.81
22 11 19 00-0140 EA 2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200).....	2,040.40	80.20
<b>22 11 19 00-0141</b>	<b>High Low Temperature Thermostatic Mixing Valves (Bradley)</b> <small>(22 11 19 00-0129)</small>	
Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.		
22 11 19 00-0142 EA 3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045).....	2,196.99	63.22
22 11 19 00-0143 EA 1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080).....	2,852.89	73.51
22 11 19 00-0144 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130).....	3,320.80	77.26
22 11 19 00-0145 EA 2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200).....	3,689.99	100.24
<b>22 11 19 00-0146</b>	<b>Thermostatic Mixing Valves (Leonard)</b> <small>(22 11 19 00-0129)</small>	
Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection		
22 11 19 00-0147 EA 3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF).....	642.63	41.05
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0148 EA 1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF).....	758.29	50.55
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0149 EA 1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF).....	929.42	58.81
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0150 EA 1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF).....	1,128.71	61.84
Note: For hot water or two pipe low pressure steam.		
22 11 19 00-0151 EA 2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF).....	1,668.02	80.20
Note: For hot water or two pipe low pressure steam.		
<b>22 11 19 00-0152</b>	<b>Water Mixing/Self Operating Temperature Regulator</b> <small>(22 11 19 00-0129)</small>	
Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.		
22 11 19 00-0153 EA 3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	1,514.33	58.79
22 11 19 00-0154 EA 1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	1,629.14	74.09
22 11 19 00-0155 EA 1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	1,812.29	89.37
22 11 19 00-0156 EA 2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	2,010.18	104.66
22 11 19 00-0157 EA 2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	2,358.22	137.58
22 11 19 00-0158 EA 2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	2,735.58	156.82
<b>22 11 19 00-0159</b>	<b>Backflow Preventer Valves</b> <small>(22 11 19)</small>	
<b>22 11 19 00-0160</b>	<b>Double Check Valve Backflow Preventer Assemblies</b> <small>(22 11 19 00-0159)</small>	
<b>22 11 19 00-0161</b>	<b>Threaded Double Check Valve Assemblies</b> <small>(22 11 19 00-0160)</small>	
<b>22 11 19 00-0162</b>	<b>Double Check Valve Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-0161)</small>	
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).		
22 11 19 00-0163 EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	193.63	31.52
For Work In Restricted Working Space, Add		
	23.64	
For Owner Furnished Material, Deduct		
	-114.84	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0164	EA		3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series) ..... 241.35 <i>For Work In Restricted Working Space, Add</i> 33.51 <i>For Owner Furnished Material, Deduct</i> -129.64		44.69
22 11 19 00-0165	EA		1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series) ..... 283.50 <i>For Work In Restricted Working Space, Add</i> 40.92 <i>For Owner Furnished Material, Deduct</i> -147.09		54.56
22 11 19 00-0166	EA		1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series) ..... 374.83 <i>For Work In Restricted Working Space, Add</i> 47.62 <i>For Owner Furnished Material, Deduct</i> -216.09		63.50
22 11 19 00-0167	EA		1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series) ..... 453.56 <i>For Work In Restricted Working Space, Add</i> 54.32 <i>For Owner Furnished Material, Deduct</i> -272.48		72.91
22 11 19 00-0168	EA		2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series) ..... 540.66 <i>For Work In Restricted Working Space, Add</i> 70.55 <i>For Owner Furnished Material, Deduct</i> -305.48		94.07
<b>22 11 19 00-0169</b>			<b>Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-0161)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0170	EA		1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... 226.49 <i>For Work In Restricted Working Space, Add</i> 23.64 <i>For Owner Furnished Material, Deduct</i> -147.70		31.52
22 11 19 00-0171	EA		3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... 289.47 <i>For Work In Restricted Working Space, Add</i> 33.51 <i>For Owner Furnished Material, Deduct</i> -177.76		44.69
22 11 19 00-0172	EA		1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... 342.50 <i>For Work In Restricted Working Space, Add</i> 40.92 <i>For Owner Furnished Material, Deduct</i> -206.09		54.56
22 11 19 00-0173	EA		1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... 458.90 <i>For Work In Restricted Working Space, Add</i> 47.62 <i>For Owner Furnished Material, Deduct</i> -300.16		63.50
22 11 19 00-0174	EA		1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... 552.57 <i>For Work In Restricted Working Space, Add</i> 54.32 <i>For Owner Furnished Material, Deduct</i> -371.49		72.91
22 11 19 00-0175	EA		2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S)..... 677.37 <i>For Work In Restricted Working Space, Add</i> 70.55 <i>For Owner Furnished Material, Deduct</i> -442.19		94.07
22 11 19 00-0176			<b>Flanged Double Check Valve Assemblies</b> <small>(22 11 19 00-0160)</small>		
22 11 19 00-0177			<b>Double Check Valve Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0176)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0178	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS) ..... 3,220.72 <i>For Work In Restricted Working Space, Add</i> 103.90 <i>For Owner Furnished Material, Deduct</i> -2,874.40		259.75
22 11 19 00-0179	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS)..... 3,540.58 <i>For Work In Restricted Working Space, Add</i> 115.26 <i>For Owner Furnished Material, Deduct</i> -3,156.38		292.21
22 11 19 00-0180			<b>Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0176)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0181	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY)..... 3,512.88 <i>For Work In Restricted Working Space, Add</i> 103.90 <i>For Owner Furnished Material, Deduct</i> -3,166.56		259.75
22 11 19 00-0182	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY) ..... 4,027.52 <i>For Work In Restricted Working Space, Add</i> 115.26 <i>For Owner Furnished Material, Deduct</i> -3,643.32		292.21
22 11 19 00-0183			<b>Double Check Valve Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0176)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0184	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series)..... 3,241.77 <i>For Work In Restricted Working Space, Add</i> 103.89 <i>For Owner Furnished Material, Deduct</i> -2,895.47		259.75
22 11 19 00-0185	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series) ..... 2,530.64 <i>For Work In Restricted Working Space, Add</i> 115.27 <i>For Owner Furnished Material, Deduct</i> -2,146.42		292.21
22 11 19 00-0186	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series) ..... 3,949.86 <i>For Work In Restricted Working Space, Add</i> 173.07 <i>For Owner Furnished Material, Deduct</i> -3,372.96		432.90



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0187 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	6,073.63	602.87
<i>For Work In Restricted Working Space, Add</i>	326.72	
<i>For Owner Furnished Material, Deduct</i>	-4,984.57	
22 11 19 00-0188 EA 8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	13,487.40	904.30
<i>For Work In Restricted Working Space, Add</i>	490.16	
<i>For Owner Furnished Material, Deduct</i>	-11,853.55	
22 11 19 00-0189 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	17,253.36	1,069.61
<i>For Work In Restricted Working Space, Add</i>	583.43	
<i>For Owner Furnished Material, Deduct</i>	-15,308.61	
<b>22 11 19 00-0190 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer</b> <small>(22 11 19 00-0176)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
22 11 19 00-0191 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series).....	4,566.83	432.90
<i>For Work In Restricted Working Space, Add</i>	173.05	
<i>For Owner Furnished Material, Deduct</i>	-3,989.99	
22 11 19 00-0192 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series).....	7,624.22	602.87
<i>For Work In Restricted Working Space, Add</i>	326.72	
<i>For Owner Furnished Material, Deduct</i>	-6,535.16	
22 11 19 00-0193 EA 10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series).....	19,898.66	1,069.61
<i>For Work In Restricted Working Space, Add</i>	583.43	
<i>For Owner Furnished Material, Deduct</i>	-17,953.91	
<b>22 11 19 00-0194 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0176)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
22 11 19 00-0195 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	3,432.91	259.75
<i>For Work In Restricted Working Space, Add</i>	103.89	
<i>For Owner Furnished Material, Deduct</i>	-3,086.61	
22 11 19 00-0196 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	3,773.88	292.21
<i>For Work In Restricted Working Space, Add</i>	115.26	
<i>For Owner Furnished Material, Deduct</i>	-3,389.68	
22 11 19 00-0197 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	4,173.65	432.90
<i>For Work In Restricted Working Space, Add</i>	173.05	
<i>For Owner Furnished Material, Deduct</i>	-3,596.81	
22 11 19 00-0198 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	7,025.36	602.87
<i>For Work In Restricted Working Space, Add</i>	326.72	
<i>For Owner Furnished Material, Deduct</i>	-5,936.30	
22 11 19 00-0199 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	14,277.53	904.30
<i>For Work In Restricted Working Space, Add</i>	490.08	
<i>For Owner Furnished Material, Deduct</i>	-12,643.94	
22 11 19 00-0200 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series).....	18,273.19	1,069.61
<i>For Work In Restricted Working Space, Add</i>	583.43	
<i>For Owner Furnished Material, Deduct</i>	-16,328.44	
<b>22 11 19 00-0201 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0176)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
22 11 19 00-0202 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	2,112.44	259.75
<i>For Work In Restricted Working Space, Add</i>	103.89	
<i>For Owner Furnished Material, Deduct</i>	-1,766.14	
22 11 19 00-0203 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	2,327.05	292.21
<i>For Work In Restricted Working Space, Add</i>	115.26	
<i>For Owner Furnished Material, Deduct</i>	-1,942.85	
22 11 19 00-0204 EA 4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	2,696.41	432.90
<i>For Work In Restricted Working Space, Add</i>	173.05	
<i>For Owner Furnished Material, Deduct</i>	-2,119.57	
22 11 19 00-0205 EA 6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	4,403.30	602.87
<i>For Work In Restricted Working Space, Add</i>	326.72	
<i>For Owner Furnished Material, Deduct</i>	-3,314.24	
22 11 19 00-0206 EA 8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	8,186.12	904.30
<i>For Work In Restricted Working Space, Add</i>	490.08	
<i>For Owner Furnished Material, Deduct</i>	-6,552.53	
22 11 19 00-0207 EA 10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series).....	8,956.42	1,069.61
<i>For Work In Restricted Working Space, Add</i>	583.43	
<i>For Owner Furnished Material, Deduct</i>	-7,011.67	
<b>22 11 19 00-0208 N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0176)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
22 11 19 00-0209 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series).....	2,739.10	259.75
<i>For Work In Restricted Working Space, Add</i>	103.89	
<i>For Owner Furnished Material, Deduct</i>	-2,392.80	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11	19 00-0210	EA	3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series).....	2,953.71	292.21
			<i>For Work In Restricted Working Space, Add</i>	115.26	
			<i>For Owner Furnished Material, Deduct</i>	-2,569.51	
22 11	19 00-0211	EA	4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY series).....	3,743.58	432.90
			<i>For Work In Restricted Working Space, Add</i>	173.05	
			<i>For Owner Furnished Material, Deduct</i>	-3,166.74	
22 11	19 00-0212	EA	6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series).....	6,156.32	602.87
			<i>For Work In Restricted Working Space, Add</i>	326.72	
			<i>For Owner Furnished Material, Deduct</i>	-5,067.26	
22 11	19 00-0213	EA	8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series).....	10,784.27	904.30
			<i>For Work In Restricted Working Space, Add</i>	490.08	
			<i>For Owner Furnished Material, Deduct</i>	-9,150.68	
22 11	19 00-0214	EA	10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series).....	12,833.51	1,069.61
			<i>For Work In Restricted Working Space, Add</i>	583.43	
			<i>For Owner Furnished Material, Deduct</i>	-10,888.76	
<b>22 11 19 00-0215 Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves</b> (22 11 19 00-0176)					
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).					
22 11	19 00-0216	EA	2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	1,987.79	259.75
			<i>For Work In Restricted Working Space, Add</i>	103.89	
			<i>For Owner Furnished Material, Deduct</i>	-1,641.49	
22 11	19 00-0217	EA	3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	2,208.08	292.21
			<i>For Work In Restricted Working Space, Add</i>	115.26	
			<i>For Owner Furnished Material, Deduct</i>	-1,823.88	
22 11	19 00-0218	EA	4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	2,583.03	432.90
			<i>For Work In Restricted Working Space, Add</i>	173.05	
			<i>For Owner Furnished Material, Deduct</i>	-2,006.19	
22 11	19 00-0219	EA	6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	4,314.23	602.87
			<i>For Work In Restricted Working Space, Add</i>	326.72	
			<i>For Owner Furnished Material, Deduct</i>	-3,225.17	
22 11	19 00-0220	EA	8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	8,100.29	904.30
			<i>For Work In Restricted Working Space, Add</i>	490.08	
			<i>For Owner Furnished Material, Deduct</i>	-6,466.70	
22 11	19 00-0221	EA	10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	9,196.07	1,069.61
			<i>For Work In Restricted Working Space, Add</i>	583.43	
			<i>For Owner Furnished Material, Deduct</i>	-7,251.32	
<b>22 11 19 00-0222 N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs</b> (22 11 19 00-0176)					
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).					
22 11	19 00-0223	EA	2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	2,561.91	259.75
			<i>For Work In Restricted Working Space, Add</i>	103.89	
			<i>For Owner Furnished Material, Deduct</i>	-2,215.61	
22 11	19 00-0224	EA	3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	2,776.53	292.21
			<i>For Work In Restricted Working Space, Add</i>	115.26	
			<i>For Owner Furnished Material, Deduct</i>	-2,392.33	
22 11	19 00-0225	EA	4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	3,566.61	432.90
			<i>For Work In Restricted Working Space, Add</i>	173.05	
			<i>For Owner Furnished Material, Deduct</i>	-2,989.77	
22 11	19 00-0226	EA	6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	5,967.83	602.87
			<i>For Work In Restricted Working Space, Add</i>	326.72	
			<i>For Owner Furnished Material, Deduct</i>	-4,878.77	
22 11	19 00-0227	EA	8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	10,498.97	904.30
			<i>For Work In Restricted Working Space, Add</i>	490.08	
			<i>For Owner Furnished Material, Deduct</i>	-8,865.38	
22 11	19 00-0228	EA	10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	12,547.38	1,069.61
			<i>For Work In Restricted Working Space, Add</i>	583.43	
			<i>For Owner Furnished Material, Deduct</i>	-10,602.63	
<b>22 11 19 00-0229 Double Check Valve Assemblies With Butterfly Shut-Off Valves</b> (22 11 19 00-0176)					
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).					
22 11	19 00-0230	EA	2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	2,282.57	259.75
			<i>For Work In Restricted Working Space, Add</i>	103.89	
			<i>For Owner Furnished Material, Deduct</i>	-1,936.27	
22 11	19 00-0231	EA	3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	2,497.19	292.21
			<i>For Work In Restricted Working Space, Add</i>	115.26	
			<i>For Owner Furnished Material, Deduct</i>	-2,112.99	
22 11	19 00-0232	EA	4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	2,866.54	432.90
			<i>For Work In Restricted Working Space, Add</i>	173.05	
			<i>For Owner Furnished Material, Deduct</i>	-2,289.70	
22 11	19 00-0233	EA	6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	4,577.73	602.87
			<i>For Work In Restricted Working Space, Add</i>	326.72	
			<i>For Owner Furnished Material, Deduct</i>	-3,488.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0234 EA 8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	8,360.55	904.30
For Work In Restricted Working Space, Add	490.08	
For Owner Furnished Material, Deduct	-6,726.96	
<b>22 11 19 00-0235 N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs</b> (22 11 19 00-0176)		
Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).		
22 11 19 00-0236 EA 2-1/2" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) .....	2,909.24	259.75
For Work In Restricted Working Space, Add	103.89	
For Owner Furnished Material, Deduct	-2,562.94	
22 11 19 00-0237 EA 3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) .....	3,123.85	292.21
For Work In Restricted Working Space, Add	115.26	
For Owner Furnished Material, Deduct	-2,739.65	
22 11 19 00-0238 EA 4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) .....	3,913.72	432.90
For Work In Restricted Working Space, Add	173.05	
For Owner Furnished Material, Deduct	-3,336.88	
22 11 19 00-0239 EA 6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) .....	6,330.78	602.87
For Work In Restricted Working Space, Add	326.72	
For Owner Furnished Material, Deduct	-5,241.72	
22 11 19 00-0240 EA 8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series) .....	8,360.55	904.30
For Work In Restricted Working Space, Add	490.08	
For Owner Furnished Material, Deduct	-6,726.96	
<b>22 11 19 00-0241 Grooved Double Check Valve Assemblies</b> (22 11 19 00-0160)		
<b>22 11 19 00-0242 Double Check Valve Assemblies With Quarter Turn Shut-Offs</b> (22 11 19 00-0241)		
Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0243 EA 2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) .....	1,987.79	138.53
For Work In Restricted Working Space, Add	103.89	
For Owner Furnished Material, Deduct	-1,641.49	
22 11 19 00-0244 EA 3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series) .....	2,208.08	153.68
For Work In Restricted Working Space, Add	115.26	
For Owner Furnished Material, Deduct	-1,823.88	
<b>22 11 19 00-0245 N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs</b> (22 11 19 00-0241)		
Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0246 EA 2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series) .....	2,561.91	138.53
For Work In Restricted Working Space, Add	103.89	
For Owner Furnished Material, Deduct	-2,215.61	
22 11 19 00-0247 EA 3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series).....	2,776.53	153.68
For Work In Restricted Working Space, Add	115.26	
For Owner Furnished Material, Deduct	-2,392.33	
<b>22 11 19 00-0248 Reduced Pressure Zone Backflow Preventer Assemblies</b> (22 11 19 00-0159)		
<b>22 11 19 00-0249 Threaded Reduced Pressure Zone Assemblies</b> (22 11 19 00-0248)		
<b>22 11 19 00-0250 Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> (22 11 19 00-0249)		
Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0251 EA 1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) .....	201.76	27.28
For Work In Restricted Working Space, Add	20.46	
For Owner Furnished Material, Deduct	-133.56	
22 11 19 00-0252 EA 3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) .....	215.31	30.10
For Work In Restricted Working Space, Add	22.58	
For Owner Furnished Material, Deduct	-140.05	
22 11 19 00-0253 EA 1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series) .....	244.69	31.52
For Work In Restricted Working Space, Add	23.64	
For Owner Furnished Material, Deduct	-165.90	
22 11 19 00-0254 EA 3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series) .....	332.66	44.69
For Work In Restricted Working Space, Add	33.51	
For Owner Furnished Material, Deduct	-220.95	
22 11 19 00-0255 EA 1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) .....	397.34	54.56
For Work In Restricted Working Space, Add	40.92	
For Owner Furnished Material, Deduct	-260.93	
22 11 19 00-0256 EA 1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) .....	568.07	63.50
For Work In Restricted Working Space, Add	47.62	
For Owner Furnished Material, Deduct	-409.33	
22 11 19 00-0257 EA 1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) .....	609.66	72.91
For Work In Restricted Working Space, Add	54.32	
For Owner Furnished Material, Deduct	-428.58	
22 11 19 00-0258 EA 2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series) .....	743.76	94.07
For Work In Restricted Working Space, Add	70.55	
For Owner Furnished Material, Deduct	-508.58	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0259		<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-02 49)</small>		
		Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
22 11 19 00-0260	EA	1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	217.93	27.28
		<i>For Work In Restricted Working Space, Add</i>	20.46	
		<i>For Owner Furnished Material, Deduct</i>	-149.73	
22 11 19 00-0261	EA	3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	232.35	30.10
		<i>For Work In Restricted Working Space, Add</i>	22.58	
		<i>For Owner Furnished Material, Deduct</i>	-157.09	
22 11 19 00-0262	EA	1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	268.04	44.69
		<i>For Work In Restricted Working Space, Add</i>	23.64	
		<i>For Owner Furnished Material, Deduct</i>	-189.25	
22 11 19 00-0263	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	369.36	44.69
		<i>For Work In Restricted Working Space, Add</i>	33.51	
		<i>For Owner Furnished Material, Deduct</i>	-257.65	
22 11 19 00-0264	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	443.23	54.56
		<i>For Work In Restricted Working Space, Add</i>	40.92	
		<i>For Owner Furnished Material, Deduct</i>	-306.82	
22 11 19 00-0265	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	630.65	63.50
		<i>For Work In Restricted Working Space, Add</i>	47.62	
		<i>For Owner Furnished Material, Deduct</i>	-471.91	
22 11 19 00-0266	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	697.97	72.91
		<i>For Work In Restricted Working Space, Add</i>	54.32	
		<i>For Owner Furnished Material, Deduct</i>	-516.89	
22 11 19 00-0267	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	852.11	94.07
		<i>For Work In Restricted Working Space, Add</i>	70.55	
		<i>For Owner Furnished Material, Deduct</i>	-616.93	
22 11 19 00-0268		<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-02 49)</small>		
		Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0269	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	332.66	44.69
		<i>For Work In Restricted Working Space, Add</i>	33.51	
		<i>For Owner Furnished Material, Deduct</i>	-220.95	
22 11 19 00-0270	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	397.34	54.56
		<i>For Work In Restricted Working Space, Add</i>	40.92	
		<i>For Owner Furnished Material, Deduct</i>	-260.93	
22 11 19 00-0271	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	568.07	63.50
		<i>For Work In Restricted Working Space, Add</i>	47.62	
		<i>For Owner Furnished Material, Deduct</i>	-409.33	
22 11 19 00-0272	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	609.66	72.91
		<i>For Work In Restricted Working Space, Add</i>	54.32	
		<i>For Owner Furnished Material, Deduct</i>	-428.58	
22 11 19 00-0273	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	743.76	94.07
		<i>For Work In Restricted Working Space, Add</i>	70.55	
		<i>For Owner Furnished Material, Deduct</i>	-508.58	
22 11 19 00-0274		<b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-02 49)</small>		
		Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0275	EA	3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	369.36	44.69
		<i>For Work In Restricted Working Space, Add</i>	33.51	
		<i>For Owner Furnished Material, Deduct</i>	-257.65	
22 11 19 00-0276	EA	1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	443.23	54.56
		<i>For Work In Restricted Working Space, Add</i>	40.92	
		<i>For Owner Furnished Material, Deduct</i>	-306.82	
22 11 19 00-0277	EA	1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	630.65	63.50
		<i>For Work In Restricted Working Space, Add</i>	47.62	
		<i>For Owner Furnished Material, Deduct</i>	-471.91	
22 11 19 00-0278	EA	1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	697.97	72.91
		<i>For Work In Restricted Working Space, Add</i>	54.32	
		<i>For Owner Furnished Material, Deduct</i>	-516.89	
22 11 19 00-0279	EA	2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	852.11	94.07
		<i>For Work In Restricted Working Space, Add</i>	70.55	
		<i>For Owner Furnished Material, Deduct</i>	-616.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 11 19 00-0280</b> <b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-0249)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0281    EA    3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	605.23	44.69
For Work In Restricted Working Space, Add	33.51	
For Owner Furnished Material, Deduct	-493.52	
22 11 19 00-0282    EA    1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	719.25	54.56
For Work In Restricted Working Space, Add	40.92	
For Owner Furnished Material, Deduct	-582.84	
22 11 19 00-0283    EA    1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT) .....	1,071.84	63.50
For Work In Restricted Working Space, Add	47.62	
For Owner Furnished Material, Deduct	-913.10	
22 11 19 00-0284    EA    1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT) .....	1,165.22	72.91
For Work In Restricted Working Space, Add	54.32	
For Owner Furnished Material, Deduct	-984.14	
22 11 19 00-0285    EA    2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT).....	1,368.87	94.07
For Work In Restricted Working Space, Add	70.55	
For Owner Furnished Material, Deduct	-1,133.69	
<b>22 11 19 00-0286</b> <b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer</b> <small>(22 11 19 00-0249)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0287    EA    3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S) .....	788.69	44.69
For Work In Restricted Working Space, Add	33.51	
For Owner Furnished Material, Deduct	-676.98	
22 11 19 00-0288    EA    1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S) .....	940.01	54.56
For Work In Restricted Working Space, Add	40.92	
For Owner Furnished Material, Deduct	-803.60	
22 11 19 00-0289    EA    1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	1,399.53	63.50
For Work In Restricted Working Space, Add	47.62	
For Owner Furnished Material, Deduct	-1,240.79	
22 11 19 00-0290    EA    1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	1,534.04	72.91
For Work In Restricted Working Space, Add	54.32	
For Owner Furnished Material, Deduct	-1,352.96	
22 11 19 00-0291    EA    2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	1,835.90	94.07
For Work In Restricted Working Space, Add	70.55	
For Owner Furnished Material, Deduct	-1,600.72	
<b>22 11 19 00-0292</b> <b>Flanged Reduced Pressure Zone Assemblies</b> <small>(22 11 19 00-0248)</small>		
<b>22 11 19 00-0293</b> <b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0292)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0294    EA    2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	2,975.79	259.75
For Work In Restricted Working Space, Add	103.90	
For Owner Furnished Material, Deduct	-2,629.47	
22 11 19 00-0295    EA    3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	3,350.17	292.21
For Work In Restricted Working Space, Add	115.26	
For Owner Furnished Material, Deduct	-2,965.97	
<b>22 11 19 00-0296</b> <b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer</b> <small>(22 11 19 00-0292)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0297    EA    2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	3,515.06	259.75
For Work In Restricted Working Space, Add	103.90	
For Owner Furnished Material, Deduct	-3,168.74	
22 11 19 00-0298    EA    3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	3,976.65	292.21
For Work In Restricted Working Space, Add	115.26	
For Owner Furnished Material, Deduct	-3,592.45	
<b>22 11 19 00-0299</b> <b>Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0292)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0300    EA    2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	3,182.20	259.75
For Work In Restricted Working Space, Add	103.90	
For Owner Furnished Material, Deduct	-2,835.88	
22 11 19 00-0301    EA    3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	3,693.21	292.21
For Work In Restricted Working Space, Add	115.26	
For Owner Furnished Material, Deduct	-3,309.01	





<b>Plumbing</b>	<b>22</b>	<b>22</b>
Plumbing Piping	22 10	
Facility Water Distribution	22 11	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 11 19 00-0302</b> <b>Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer</b> <small>(22 11 19 00-0292)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		
22 11 19 00-0303    EA    2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series) .....	3,515.06	259.75
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	103.90 -3,168.74	
22 11 19 00-0304    EA    3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series) .....	3,976.65	292.21
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	115.26 -3,592.45	
<b>22 11 19 00-0305</b> <b>Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs</b> <small>(22 11 19 00-0292)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0306    EA    2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series) .....	3,883.53	259.75
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	103.90 -3,537.21	
22 11 19 00-0307    EA    3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series) .....	4,486.12	292.21
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	115.26 -4,101.92	
<b>22 11 19 00-0308</b> <b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs</b> <small>(22 11 19 00-0292)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
22 11 19 00-0309    EA    2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	4,989.67	259.75
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	103.89 -4,643.37	
22 11 19 00-0310    EA    3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	5,664.24	292.21
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	115.27 -5,280.02	
22 11 19 00-0311    EA    4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	7,177.47	432.90
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	173.07 -6,600.57	
22 11 19 00-0312    EA    6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	11,115.18	602.87
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	457.43 -9,590.41	
22 11 19 00-0313    EA    8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	18,325.82	904.30
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	686.15 -16,038.65	
22 11 19 00-0314    EA    10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	23,187.58	1,069.61
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	583.43 -21,242.83	
<b>22 11 19 00-0315</b> <b>Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer</b> <small>(22 11 19 00-0292)</small> Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		
22 11 19 00-0316    EA    2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	5,363.95	259.75
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	103.89 -5,017.65	
22 11 19 00-0317    EA    3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	6,058.13	292.21
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	115.26 -5,673.93	
22 11 19 00-0318    EA    4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	7,781.36	432.90
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	173.05 -7,204.52	
22 11 19 00-0319    EA    6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	11,816.26	602.87
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	326.72 -10,727.20	
22 11 19 00-0320    EA    8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	19,075.72	904.30
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	490.08 -17,442.13	
22 11 19 00-0321    EA    10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	25,764.35	1,069.61
<i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	583.43 -23,819.60	
<b>22 11 19 00-0322</b> <b>Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0292)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0323 EA 2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	5,297.82	259.75
For Work In Restricted Working Space, Add	103.89	
For Owner Furnished Material, Deduct	-4,951.52	
22 11 19 00-0324 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	6,017.45	292.21
For Work In Restricted Working Space, Add	115.27	
For Owner Furnished Material, Deduct	-5,633.23	
22 11 19 00-0325 EA 4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	7,616.44	432.90
For Work In Restricted Working Space, Add	173.07	
For Owner Furnished Material, Deduct	-7,039.54	
22 11 19 00-0326 EA 6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	11,319.38	602.87
For Work In Restricted Working Space, Add	326.72	
For Owner Furnished Material, Deduct	-10,230.32	
22 11 19 00-0327 EA 8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	18,741.98	904.30
For Work In Restricted Working Space, Add	490.08	
For Owner Furnished Material, Deduct	-17,108.39	
22 11 19 00-0328 EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series).....	24,602.98	1,069.61
For Work In Restricted Working Space, Add	583.43	
For Owner Furnished Material, Deduct	-22,658.23	
<b>22 11 19 00-0329 Double Check Detector Assemblies (22 11 19 00-0159)</b>		
<b>22 11 19 00-0330 Flanged Double Check Detector Assemblies With Meter (22 11 19 00-0329)</b>		
<b>22 11 19 00-0331 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0330)</b>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		
22 11 19 00-0332 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	4,034.83	292.21
For Work In Restricted Working Space, Add	115.26	
For Owner Furnished Material, Deduct	-3,650.63	
22 11 19 00-0333 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	4,312.17	432.90
For Work In Restricted Working Space, Add	173.05	
For Owner Furnished Material, Deduct	-3,735.33	
22 11 19 00-0334 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	5,939.52	602.87
For Work In Restricted Working Space, Add	326.72	
For Owner Furnished Material, Deduct	-4,850.46	
22 11 19 00-0335 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	10,401.08	904.30
For Work In Restricted Working Space, Add	490.08	
For Owner Furnished Material, Deduct	-8,767.49	
22 11 19 00-0336 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series).....	13,926.94	1,069.61
For Work In Restricted Working Space, Add	583.43	
For Owner Furnished Material, Deduct	-11,982.19	
<b>22 11 19 00-0337 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0330)</b>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0338 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	3,050.83	259.75
For Work In Restricted Working Space, Add	103.90	
For Owner Furnished Material, Deduct	-2,704.51	
22 11 19 00-0339 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	3,265.25	292.21
For Work In Restricted Working Space, Add	115.26	
For Owner Furnished Material, Deduct	-2,881.05	
22 11 19 00-0340 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	3,638.78	432.90
For Work In Restricted Working Space, Add	173.05	
For Owner Furnished Material, Deduct	-3,061.94	
22 11 19 00-0341 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	5,064.96	602.87
For Work In Restricted Working Space, Add	326.72	
For Owner Furnished Material, Deduct	-3,975.90	
22 11 19 00-0342 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	8,820.38	904.30
For Work In Restricted Working Space, Add	490.08	
For Owner Furnished Material, Deduct	-7,186.79	
22 11 19 00-0343 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series).....	10,409.83	1,069.61
For Work In Restricted Working Space, Add	583.43	
For Owner Furnished Material, Deduct	-8,465.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0344			<b>Double Check Detector Assembly With Butterfly Valves And Meter</b> <small>(22 11 19 00-0330)</small> Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0345	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	3,221.01	259.75
			<i>For Work In Restricted Working Space, Add</i>	103.90	
			<i>For Owner Furnished Material, Deduct</i>	-2,874.69	
22 11 19 00-0346	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	3,435.42	292.21
			<i>For Work In Restricted Working Space, Add</i>	115.26	
			<i>For Owner Furnished Material, Deduct</i>	-3,051.22	
22 11 19 00-0347	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	3,808.92	432.90
			<i>For Work In Restricted Working Space, Add</i>	173.05	
			<i>For Owner Furnished Material, Deduct</i>	-3,232.08	
22 11 19 00-0348	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	5,239.38	602.87
			<i>For Work In Restricted Working Space, Add</i>	326.72	
			<i>For Owner Furnished Material, Deduct</i>	-4,150.32	
22 11 19 00-0349	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	8,611.10	904.30
			<i>For Work In Restricted Working Space, Add</i>	490.08	
			<i>For Owner Furnished Material, Deduct</i>	-6,977.51	
22 11 19 00-0350			<b>Flanged Double Check Detector Assemblies Without Meter</b> <small>(22 11 19 00-0329)</small>		
22 11 19 00-0351			<b>Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter</b> <small>(22 11 19 00-0350)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		
22 11 19 00-0352	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	2,997.10	259.75
			<i>For Work In Restricted Working Space, Add</i>	103.90	
22 11 19 00-0353	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	3,211.54	292.21
			<i>For Work In Restricted Working Space, Add</i>	115.26	
22 11 19 00-0354	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	3,585.07	432.90
			<i>For Work In Restricted Working Space, Add</i>	173.05	
22 11 19 00-0355	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	5,011.25	602.87
			<i>For Work In Restricted Working Space, Add</i>	326.72	
22 11 19 00-0356	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	8,766.70	904.30
			<i>For Work In Restricted Working Space, Add</i>	490.08	
22 11 19 00-0357	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series).....	10,356.08	1,069.61
			<i>For Work In Restricted Working Space, Add</i>	583.43	
22 11 19 00-0358			<b>Double Check Detector Assembly With Butterfly Valves Less Meter</b> <small>(22 11 19 00-0350)</small> Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0359	EA		2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	3,167.26	259.75
			<i>For Work In Restricted Working Space, Add</i>	103.90	
22 11 19 00-0360	EA		3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	3,381.67	292.21
			<i>For Work In Restricted Working Space, Add</i>	115.26	
22 11 19 00-0361	EA		4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	3,755.21	432.90
			<i>For Work In Restricted Working Space, Add</i>	173.05	
22 11 19 00-0362	EA		6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	5,185.64	602.87
			<i>For Work In Restricted Working Space, Add</i>	326.72	
22 11 19 00-0363	EA		8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	8,941.13	904.30
			<i>For Work In Restricted Working Space, Add</i>	490.08	
22 11 19 00-0364			<b>Flanged Double Check Detector Assemblies</b> <small>(22 11 19 00-0329)</small>		
22 11 19 00-0365			<b>Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs</b> <small>(22 11 19 00-0364)</small> Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 774 DCDA OSY series).		
22 11 19 00-0366	EA		2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	2,899.88	259.75
			<i>For Work In Restricted Working Space, Add</i>	103.90	
			<i>For Owner Furnished Material, Deduct</i>	-2,553.56	
22 11 19 00-0367	EA		3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	3,492.73	292.21
			<i>For Work In Restricted Working Space, Add</i>	115.26	
			<i>For Owner Furnished Material, Deduct</i>	-3,108.53	
22 11 19 00-0368	EA		4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	3,949.29	432.90
			<i>For Work In Restricted Working Space, Add</i>	173.05	
			<i>For Owner Furnished Material, Deduct</i>	-3,372.45	
22 11 19 00-0369	EA		6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	5,125.42	602.87
			<i>For Work In Restricted Working Space, Add</i>	326.72	
			<i>For Owner Furnished Material, Deduct</i>	-4,036.36	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 11</b>	<b>Facility Water Distribution</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0370	EA		8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	8,929.72	904.30
			<i>For Work In Restricted Working Space, Add</i>	490.08	
			<i>For Owner Furnished Material, Deduct</i>	-7,296.13	
22 11 19 00-0371	EA		10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	11,916.03	1,069.61
			<i>For Work In Restricted Working Space, Add</i>	583.43	
			<i>For Owner Furnished Material, Deduct</i>	-9,971.28	
22 11 19 00-0372	EA		12" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs (Watts 774 DCDA OSY series).....	15,779.28	1,283.53
			<i>For Work In Restricted Working Space, Add</i>	700.11	
			<i>For Owner Furnished Material, Deduct</i>	-13,445.59	
<b>22 11 19 00-0373</b>			<b>Backflow Preventer Accessories (22 11 19 00-0159)</b>		
<b>22 11 19 00-0374</b>			<b>Air Gap (22 11 19 00-0373)</b>		
22 11 19 00-0375	EA		Up To 1" Diameter Air Gap For Backflow Preventer .....	59.96	14.70
22 11 19 00-0376	EA		1-1/4" To 2" Diameter Air Gap For Backflow Preventer .....	73.16	17.64
22 11 19 00-0377	EA		2-1/2" To 3" Diameter Air Gap For Backflow Preventer .....	124.16	23.52
22 11 19 00-0378	EA		4" To 6" Diameter Air Gap For Backflow Preventer .....	238.19	41.15
22 11 19 00-0379	EA		8" To 10" Diameter Air Gap For Backflow Preventer .....	273.47	58.79
<b>22 11 19 00-0380</b>			<b>Brass Test Cocks (22 11 19 00-0373)</b>		
22 11 19 00-0381	EA		1/8" Or 1/4" Brass Test Cock.....	24.25	5.88
<b>22 11 19 00-0382</b>			<b>Backflow Valve Enclosures (22 11 19 00-0159)</b>		
<b>22 11 19 00-0383</b>			<b>Flip-Top, Insulated Fiberglass Valve Enclosures (22 11 19 00-0382)</b>		
			Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0384	EA		19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	670.25	105.83
			<i>For Heated Enclosure, Add</i>	74.08	
22 11 19 00-0385	EA		27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	808.44	105.83
			<i>For Heated Enclosure, Add</i>	94.81	
22 11 19 00-0386	EA		27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	1,001.08	97.41
			<i>For Heated Enclosure, Add</i>	125.81	
22 11 19 00-0387	EA		33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	1,058.80	129.87
			<i>For Heated Enclosure, Add</i>	126.35	
22 11 19 00-0388	EA		39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	1,105.66	129.87
			<i>For Heated Enclosure, Add</i>	133.38	
22 11 19 00-0389	EA		47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	1,288.31	129.87
			<i>For Heated Enclosure, Add</i>	160.78	
22 11 19 00-0390	EA		39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	1,293.12	129.87
			<i>For Heated Enclosure, Add</i>	161.50	
22 11 19 00-0391	EA		47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	1,604.34	129.87
			<i>For Heated Enclosure, Add</i>	208.18	
22 11 19 00-0392	EA		70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	3,627.99	194.80
			<i>For Heated Enclosure, Add</i>	495.50	
22 11 19 00-0393	EA		83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	5,198.53	194.80
			<i>For Heated Enclosure, Add</i>	731.08	
22 11 19 00-0394	EA		70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	4,946.19	194.80
			<i>For Heated Enclosure, Add</i>	693.23	
22 11 19 00-0395	EA		83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure .....	5,950.79	227.27
			<i>For Heated Enclosure, Add</i>	835.80	
<b>22 11 19 00-0396</b>			<b>One-Piece Drop Over, Insulated Fiberglass Valve Enclosures (22 11 19 00-0382)</b>		
			Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0397	EA		20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	347.45	28.22
			<i>For Heated Enclosure, Add</i>	60.08	
22 11 19 00-0398	EA		27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	474.82	28.22
			<i>For Heated Enclosure, Add</i>	85.56	
22 11 19 00-0399	EA		38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	588.83	25.97
			<i>For Heated Enclosure, Add</i>	109.11	
22 11 19 00-0400	EA		47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	879.63	25.97
			<i>For Heated Enclosure, Add</i>	167.27	
22 11 19 00-0401	EA		70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	2,263.35	48.70
			<i>For Heated Enclosure, Add</i>	436.44	
22 11 19 00-0402	EA		83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	3,076.86	48.70
			<i>For Heated Enclosure, Add</i>	599.14	
22 11 19 00-0403	EA		45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	2,061.47	48.70
			<i>For Heated Enclosure, Add</i>	396.06	
22 11 19 00-0404	EA		53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	2,328.24	48.70
			<i>For Heated Enclosure, Add</i>	449.41	
22 11 19 00-0405	EA		61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure.....	3,622.40	48.70
			<i>For Heated Enclosure, Add</i>	708.25	
<b>22 11 19 00-0406</b>			<b>Sectional, Insulated Aluminum Valve Enclosures (22 11 19 00-0382)</b>		
			Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0407 EA 70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	4,693.09 651.05 439.10 785.76	211.66
22 11 19 00-0408 EA 83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,158.13 720.80 439.10 785.76	211.66
22 11 19 00-0409 EA 53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	3,684.47 503.97 439.10 785.76	194.80
22 11 19 00-0410 EA 53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	4,028.13 555.52 439.10 785.76	194.80
22 11 19 00-0411 EA 90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	4,709.54 641.50 439.10 785.76	259.75
22 11 19 00-0412 EA 102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,259.89 724.05 439.10 785.76	259.75
22 11 19 00-0413 EA 90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,259.89 724.05 439.10 785.76	259.75
22 11 19 00-0414 EA 102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,793.42 804.08 439.10 785.76	259.75
22 11 19 00-0415 EA 62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	4,371.84 598.96 439.10 785.76	227.27
22 11 19 00-0416 EA 62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,114.49 702.24 439.10 785.76	259.75
22 11 19 00-0417 EA 105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,947.23 827.15 439.10 785.76	259.75
22 11 19 00-0418 EA 125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	6,522.23 909.34 439.10 785.76	275.98
22 11 19 00-0419 EA 105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	6,700.21 930.07 439.10 785.76	299.85
22 11 19 00-0420 EA 125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,416.95 1,033.17 439.10 785.76	317.49
22 11 19 00-0421 EA 105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,649.99 1,074.45 439.10 785.76	292.21
22 11 19 00-0422 EA 72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,586.73 773.07 439.10 785.76	259.75
22 11 19 00-0423 EA 72" Length x 45" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,943.62 826.61 439.10 785.76	259.75
22 11 19 00-0424 EA 72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	6,713.29 938.00 439.10 785.76	275.98
22 11 19 00-0425 EA 72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,107.81 1,143.12 439.10 785.76	292.21
22 11 19 00-0426 EA 118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,099.63 991.89 439.10 785.76	129.87
22 11 19 00-0427 EA 142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,502.58 1,198.28 439.10 785.76	129.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0428 EA 118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,227.41 1,157.00 439.10 785.76	194.80
22 11 19 00-0429 EA 142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	9,534.83 1,345.00 439.10 785.76	194.80
22 11 19 00-0430 EA 142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,804.81 1,239.55 439.10 785.76	194.80
22 11 19 00-0431 EA 172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,275.65 1,452.06 439.10 785.76	227.27
22 11 19 00-0432 EA 142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,329.76 1,452.06 439.10 785.76	194.80
22 11 19 00-0433 EA 172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure ..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	12,228.40 1,728.74 439.10 785.76	194.80
<b>22 11 19 00-0434 Faucets (Hose Bibbs) (22 11 19)</b>		
<b>22 11 19 00-0435 Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends (22 11 19 00-0434)</b>		
22 11 19 00-0436 EA 1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends .....	54.98	11.75
22 11 19 00-0437 EA 3/4" Faucet, Bronze Garden Hose Valve With Screwed Ends, 125# .....	64.80	12.93
22 11 19 00-0438 EA 3/4" Hose Valve With Screwed Ends And Vacuum Breaker, 125# .....	17.79	8.82
<b>22 11 19 00-0439 Chrome Plated Brass Hose Valves, Screwed Ends (22 11 19 00-0434)</b>		
22 11 19 00-0440 EA 3/4" Hose Valve With Screwed Ends; Chicago Faucets #387-CP .....	127.26	35.98
<b>22 11 19 00-0441 Antisiphon Freezeless Wall Faucet (22 11 19 00-0434)</b>		
22 11 19 00-0442 EA 4" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	125.37	29.40
22 11 19 00-0443 EA 6" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	136.50	32.57
22 11 19 00-0444 EA 8" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	144.69	34.45
22 11 19 00-0445 EA 10" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	152.86	36.92
22 11 19 00-0446 EA 12" Long, 1/2" Antisiphon Freezeless Wall Faucet .....	161.16	39.15
<b>22 11 19 00-0447 Escutcheons (22 11 19)</b>		
<b>22 11 19 00-0448 Brass Escutcheons (22 11 19 00-0447)</b>		
<b>22 11 19 00-0449 Shallow Brass Escutcheons (22 11 19 00-0448)</b>		
22 11 19 00-0450 EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon .....	11.99	2.94
22 11 19 00-0451 EA 1/2" IPS, Antique Or Polished Brass Shallow Escutcheon .....	12.82	2.94
<b>22 11 19 00-0452 Deep Bell Brass Escutcheons (22 11 19 00-0448)</b>		
22 11 19 00-0453 EA 3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon .....	13.90	3.30
22 11 19 00-0454 EA 1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon .....	13.92	3.30
<b>22 11 19 00-0455 Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0448)</b>		
22 11 19 00-0456 EA 3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew .....	14.38	2.94
22 11 19 00-0457 EA 1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew .....	14.50	2.94
22 11 19 00-0458 EA 5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew .....	14.67	2.94
22 11 19 00-0459 EA 3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew .....	15.29	2.94
22 11 19 00-0460 EA 7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew .....	15.66	3.53
22 11 19 00-0461 EA 1" IPS, Chrome Plated Brass Escutcheon With Setscrew .....	16.26	3.53
22 11 19 00-0462 EA 1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew .....	17.03	3.88
22 11 19 00-0463 EA 1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew .....	17.93	4.12
22 11 19 00-0464 EA 2" IPS, Chrome Plated Brass Escutcheon With Setscrew .....	24.51	4.70
<b>22 11 19 00-0465 Plastic Escutcheons (22 11 19 00-0447)</b>		
<b>22 11 19 00-0466 Split-Ring White Plastic Escutcheons (22 11 19 00-0465)</b>		
22 11 19 00-0467 EA 3/8" IPS, Split-Ring White Plastic Escutcheon .....	6.16	2.93
22 11 19 00-0468 EA 1/2" IPS, Split-Ring White Plastic Escutcheon .....	6.16	2.93
22 11 19 00-0469 EA 3/4" IPS, Split-Ring White Plastic Escutcheon .....	6.87	3.29
22 11 19 00-0470 EA 1" IPS, Split-Ring White Plastic Escutcheon .....	7.49	3.52
22 11 19 00-0471 EA 1-1/4" IPS, Split-Ring White Plastic Escutcheon .....	8.09	3.87
22 11 19 00-0472 EA 1-1/2" IPS, Split-Ring White Plastic Escutcheon .....	8.70	4.10
22 11 19 00-0473 EA 2" IPS, Split-Ring White Plastic Escutcheon .....	9.91	4.69



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 19 00-0474	EA		2-1/2" IPS, Split-Ring White Plastic Escutcheon.....	11.10	5.05
	22 11 19 00-0475	EA		3" IPS, Split-Ring White Plastic Escutcheon.....	12.29	5.28
	22 11 19 00-0476	EA		4" IPS, Split-Ring White Plastic Escutcheon.....	14.06	5.87
<b>22 11 19 00-0477</b>				<b>Chrome Plate Plastic Escutcheons (22 11 19 00-0465)</b>		
	22 11 19 00-0478	EA		1/2" IPS, Chrome Plate Plastic Escutcheon.....	6.65	2.93
	22 11 19 00-0479	EA		3/4" IPS, Chrome Plate Plastic Escutcheon.....	7.29	3.29
	22 11 19 00-0480	EA		1" IPS, Chrome Plate Plastic Escutcheon.....	8.03	3.52
	22 11 19 00-0481	EA		1-1/4" IPS, Chrome Plate Plastic Escutcheon.....	8.76	3.87
	22 11 19 00-0482	EA		1-1/2" IPS, Chrome Plate Plastic Escutcheon.....	9.37	4.10
	22 11 19 00-0483	EA		2" IPS, Chrome Plate Plastic Escutcheon.....	11.06	4.69
	22 11 19 00-0484	EA		2-1/2" IPS, Chrome Plate Plastic Escutcheon.....	13.16	5.05
	22 11 19 00-0485	EA		3" IPS, Chrome Plate Plastic Escutcheon.....	13.81	5.28
	22 11 19 00-0486	EA		4" IPS, Chrome Plate Plastic Escutcheon.....	15.11	5.87
<b>22 11 19 00-0487</b>				<b>Stainless Steel Escutcheons (22 11 19 00-0447)</b>		
<b>22 11 19 00-0488</b>				<b>Shallow Stainless Steel Escutcheons (22 11 19 00-0487)</b>		
	22 11 19 00-0489	EA		3/8" IPS, Shallow Stainless Steel Escutcheon.....	13.02	2.94
	22 11 19 00-0490	EA		1/2" IPS, Shallow Stainless Steel Escutcheon.....	13.02	2.94
	22 11 19 00-0491	EA		3/4" IPS, Shallow Stainless Steel Escutcheon.....	17.26	3.30
<b>22 11 19 00-0492</b>				<b>Chrome Plated Steel Escutcheons (22 11 19 00-0447)</b>		
<b>22 11 19 00-0493</b>				<b>Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0492)</b>		
	22 11 19 00-0494	EA		1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	6.22	2.93
	22 11 19 00-0495	EA		3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	6.80	3.29
	22 11 19 00-0496	EA		1" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	7.46	3.52
	22 11 19 00-0497	EA		1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	8.04	3.87
	22 11 19 00-0498	EA		1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	8.63	4.10
	22 11 19 00-0499	EA		2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	9.91	4.69
	22 11 19 00-0500	EA		2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	12.87	5.05
	22 11 19 00-0501	EA		3" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	13.65	5.28
	22 11 19 00-0502	EA		3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	15.89	5.64
	22 11 19 00-0503	EA		4" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	14.99	5.87
	22 11 19 00-0504	EA		5" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	18.24	6.45
	22 11 19 00-0505	EA		6" IPS, Split-Ring Chrome Plated Steel Escutcheon.....	20.79	7.04
<b>22 11 19 00-0506</b>				<b>Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0492)</b>		
	22 11 19 00-0507	EA		3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	8.21	2.93
	22 11 19 00-0508	EA		1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	8.21	2.93
	22 11 19 00-0509	EA		3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	8.87	3.29
	22 11 19 00-0510	EA		1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	9.86	3.52
	22 11 19 00-0511	EA		1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	10.55	3.87
	22 11 19 00-0512	EA		1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	11.24	4.10
	22 11 19 00-0513	EA		2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	13.16	4.69
	22 11 19 00-0514	EA		2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	14.73	5.05
	22 11 19 00-0515	EA		3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	17.19	5.28
	22 11 19 00-0516	EA		3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	20.21	5.64
	22 11 19 00-0517	EA		4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	20.72	5.87
	22 11 19 00-0518	EA		5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	31.02	6.45
	22 11 19 00-0519	EA		6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon.....	32.68	7.04
<b>22 11 19 00-0520</b>				<b>Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0492)</b>		
	22 11 19 00-0521	EA		3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.36	3.30
	22 11 19 00-0522	EA		1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.30	3.30
	22 11 19 00-0523	EA		3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.18	3.30
	22 11 19 00-0524	EA		1" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	7.79	3.53
	22 11 19 00-0525	EA		1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	8.46	3.88
	22 11 19 00-0526	EA		1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon.....	9.21	4.12
<b>22 11 19 00-0527</b>				<b>Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0492)</b>		
	22 11 19 00-0528	EA		3/8" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.95	2.94
	22 11 19 00-0529	EA		1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.95	2.94
	22 11 19 00-0530	EA		3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.00	2.94
	22 11 19 00-0531	EA		1" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.44	3.53
	22 11 19 00-0532	EA		1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.07	3.88
	22 11 19 00-0533	EA		1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.82	4.12
	22 11 19 00-0534	EA		2" IPS, Shallow Chrome Plated Steel Escutcheon.....	10.03	4.70
<b>22 11 19 00-0535</b>				<b>Keyed, Recessed Valve Boxes (22 11 19)</b>		
	22 11 19 00-0536	EA		8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box.....	227.26	35.20
	22 11 19 00-0537	EA		8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box.....	249.67	35.20



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11	19 00-0538	EA	8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box.....	283.28	35.20
22 11	19 00-0539	EA	12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box.....	284.34	46.93
22 11	19 00-0540	EA	12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box.....	317.96	46.93
22 11	19 00-0541	EA	12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box.....	328.04	46.93
22 11	19 00-0542	EA	8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	263.11	35.20
22 11	19 00-0543	EA	8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	312.42	35.20
22 11	19 00-0544	EA	8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	356.12	35.20
22 11	19 00-0545	EA	12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box.....	347.09	46.93
22 11	19 00-0546	EA	12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box.....	390.79	46.93
22 11	19 00-0547	EA	12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box.....	407.60	46.93

**22 11 23 Domestic Water Pumps (22 11)**

**22 11 23 13 Domestic Water Packaged Booster Pumps And Tanks (22 11 23)**

Note: Includes motor starter and controls.

**22 11 23 13-0001 Simplex Domestic Water Packaged Booster Pumps And Tank (22 11 23 13)**

22 11	23 13-0002	EA	1 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	4,513.63	346.32
22 11	23 13-0003	EA	1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	4,866.95	465.37
22 11	23 13-0004	EA	2 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	5,248.10	584.42
22 11	23 13-0005	EA	3 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	5,615.34	703.47
22 11	23 13-0006	EA	5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	6,288.88	822.52
22 11	23 13-0007	EA	7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	7,032.04	941.56
22 11	23 13-0008	EA	10 HP Simplex Domestic Water Packaged Booster Pump And Tank.....	7,608.12	1,060.62

**22 11 23 13-0009 Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)**

22 11	23 13-0010	EA	100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	12,920.99	1,397.90
22 11	23 13-0011	EA	200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	15,234.12	1,485.27
22 11	23 13-0012	EA	300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	17,556.14	1,572.64

**22 11 23 13-0013 Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)**

22 11	23 13-0014	EA	200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	16,421.06	1,485.27
22 11	23 13-0015	EA	300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	19,986.92	1,572.64
22 11	23 13-0016	EA	500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	24,499.02	1,747.38
22 11	23 13-0017	EA	750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	30,554.32	1,922.11
22 11	23 13-0018	EA	1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	36,609.61	2,096.86
22 11	23 13-0019	EA	1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	42,510.56	2,358.97
22 11	23 13-0020	EA	2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	48,411.48	2,621.07
22 11	23 13-0021	EA	3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	54,312.42	2,883.18
22 11	23 13-0022	EA	5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator.....	60,431.77	3,232.65

**22 11 23 13-0023 Variable Speed Duplex Domestic Water Pressure Booster Skid (22 11 23 13)**

Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.

22 11	23 13-0024	EA	40 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-1).....	23,611.23	1,403.34
22 11	23 13-0025	EA	40 GPM At 80 To 120 PSI, 80 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-2).....	24,643.21	1,403.34
22 11	23 13-0026	EA	80 GPM At 80 PSI, 120 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-3).....	26,117.79	1,403.34
22 11	23 13-0027	EA	80 GPM At 130 To 150 PSI, 120 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-4).....	28,243.38	1,403.34
22 11	23 13-0028	EA	160 GPM At 40 To 50 PSI, 200 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-5).....	26,788.63	1,491.05
22 11	23 13-0029	EA	160 GPM At 60 To 80 PSI, 200 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-6).....	28,644.18	1,491.05
22 11	23 13-0030	EA	160 GPM At 90 To 110 PSI, 200 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-7).....	31,164.18	1,491.05
22 11	23 13-0031	EA	160 To 200 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-8).....	33,212.46	1,491.05
22 11	23 13-0032	EA	240 To 280 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-9).....	29,232.09	1,578.75
22 11	23 13-0033	EA	280 To 320 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-10).....	31,064.11	1,578.75
22 11	23 13-0034	EA	240 To 320 GPM At 90 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-11).....	35,160.66	1,578.75
22 11	23 13-0035	EA	240 To 320 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-12).....	42,036.05	1,578.75
22 11	23 13-0036	EA	360 To 400 GPM At 40 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-13).....	30,806.40	1,578.75
22 11	23 13-0037	EA	360 To 400 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-14).....	34,543.26	1,578.75
22 11	23 13-0038	EA	360 To 400 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-15).....	42,768.85	1,578.75
22 11	23 13-0039	EA	360 To 400 GPM At 120 To 140 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-16).....	42,531.31	1,578.75





	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0040	EA	440 To 480 GPM At 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-17).....	50,627.34	1,754.18
22 11 23 13-0041	EA	440 To 480 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-18).....	35,220.47	1,754.18
22 11 23 13-0042	EA	440 To 480 GPM At 60 To 90 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-19).....	42,711.01	1,754.18
22 11 23 13-0043	EA	440 To 480 GPM At 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-20).....	42,474.59	1,754.18
22 11 23 13-0044	EA	440 To 600 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-21).....	50,994.87	1,754.18
22 11 23 13-0045	EA	440 To 600 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-22).....	61,416.64	1,754.18
22 11 23 13-0046	EA	60 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-1).....	29,563.33	1,403.34
<b>22 11 23 13-0047</b>		<b>Variable Speed Triplex Domestic Water Pressure Booster Skid <small>(22 11 23 13)</small></b> Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.		
22 11 23 13-0048	EA	60 GPM At 80 To 130 PSI, 120 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-2).....	29,563.33	1,403.34
22 11 23 13-0049	EA	120 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-3).....	32,945.00	1,403.34
22 11 23 13-0050	EA	60 GPM At 140 To 150 PSI, 120 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-4).....	35,862.78	1,403.34
22 11 23 13-0051	EA	180 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-5).....	33,164.28	1,491.05
22 11 23 13-0052	EA	180 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-6).....	36,061.89	1,491.05
22 11 23 13-0053	EA	240 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-7).....	33,841.06	1,491.05
22 11 23 13-0054	EA	240 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-8).....	36,331.93	1,491.05
22 11 23 13-0055	EA	240 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-9).....	39,757.30	1,491.05
22 11 23 13-0056	EA	240 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-10).....	42,596.64	1,491.05
22 11 23 13-0057	EA	300 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-11).....	34,223.92	1,578.75
22 11 23 13-0058	EA	300 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-12).....	36,714.79	1,578.75
22 11 23 13-0059	EA	300 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-13).....	40,139.04	1,578.75
22 11 23 13-0060	EA	300 GPM At 110 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-14).....	42,978.39	1,578.75
22 11 23 13-0061	EA	360 GPM At 40 To 60 PSI, 420 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-15).....	37,025.17	1,578.75
22 11 23 13-0062	EA	360 GPM At 70 To 80 PSI, 420 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-16).....	39,417.44	1,578.75
22 11 23 13-0063	EA	360 GPM At 90 To 130 PSI, 420 GPM At 80 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-17).....	45,328.08	1,578.75
22 11 23 13-0064	EA	360 GPM At 140 To 150 PSI, 420 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-18).....	54,973.34	1,578.75
22 11 23 13-0065	EA	480 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-19).....	37,952.25	1,754.18
22 11 23 13-0066	EA	480 GPM At 50 To 70 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-20).....	40,345.64	1,754.18
22 11 23 13-0067	EA	480 GPM At 80 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-21).....	46,256.27	1,754.18
22 11 23 13-0068	EA	480 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-22).....	55,900.42	1,754.18
22 11 23 13-0069	EA	540 GPM At 40 PSI, 600 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-23).....	39,957.94	1,754.18
22 11 23 13-0070	EA	540 GPM At 50 To 90 PSI, 600 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-24).....	45,329.62	1,754.18
22 11 23 13-0071	EA	540 GPM At 100 To 110 PSI, 600 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-25).....	56,998.51	1,754.18
22 11 23 13-0072	EA	540 GPM At 120 To 130 PSI, 600 GPM At 120 To 130 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-26).....	58,129.09	1,754.18
22 11 23 13-0073	EA	540 GPM At 140 To 150 PSI, 600 GPM At 140 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-27).....	71,674.82	1,754.18
22 11 23 13-0074	EA	660 GPM At 40 To 50 PSI, 720 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-28).....	45,378.66	2,105.00
22 11 23 13-0075	EA	660 GPM At 60 To 90 PSI, 720,780,840,900 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-29).....	54,231.73	2,105.00
22 11 23 13-0076	EA	660, 720, 780 GPM At 100 PSI, 840 To 900 GPM At 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-30).....	57,588.75	2,105.00
22 11 23 13-0077	EA	660, 720, 780, 840, 900 GPM At 110 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-31).....	69,104.13	2,105.00
22 11 23 13-0078	EA	660, 720, 780, 840, 900 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-32).....	85,218.04	2,105.00



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

**22 11 23 23 Domestic-Water In-Line Pumps (22 11 23)**

**22 11 23 23-0001 Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)**

Note: ODP motor.

22 11 23 23-0002	EA	1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B) .....	776.75	194.80
22 11 23 23-0003	EA	1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B).....	792.82	194.80
22 11 23 23-0004	EA	1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B) .....	825.36	198.59
22 11 23 23-0005	EA	1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B).....	899.20	206.71
22 11 23 23-0006	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B).....	1,478.53	214.37
22 11 23 23-0007	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB).....	1,564.99	214.37
22 11 23 23-0008	EA	1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB) .....	2,267.06	236.02
22 11 23 23-0009	EA	1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB) .....	2,375.31	259.30
22 11 23 23-0010	EA	1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB).....	2,851.39	285.28
22 11 23 23-0011	EA	1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S).....	2,933.40	313.97
22 11 23 23-0012	EA	3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S).....	3,209.22	344.83
22 11 23 23-0013	EA	1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S).....	4,501.20	379.48
22 11 23 23-0014	EA	1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S).....	5,151.91	397.87

**22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)**

Note: ODP motor.

22 11 23 23-0016	EA	1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30) .....	802.16	194.80
22 11 23 23-0017	EA	1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36) .....	1,229.82	194.80
22 11 23 23-0018	EA	1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45) .....	1,237.66	198.59
22 11 23 23-0019	EA	1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45).....	1,259.82	202.92
22 11 23 23-0020	EA	1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50).....	1,267.38	206.71
22 11 23 23-0021	EA	1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75).....	1,294.44	214.37
22 11 23 23-0022	EA	1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2).....	1,560.11	236.02
22 11 23 23-0023	EA	1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30).....	1,996.70	285.28
22 11 23 23-0024	EA	1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S).....	2,114.84	313.97
22 11 23 23-0025	EA	3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S).....	2,449.63	344.83
22 11 23 23-0026	EA	1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S).....	3,233.11	379.48
22 11 23 23-0027	EA	1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S).....	3,741.53	397.87
22 11 23 23-0028	EA	2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF) .....	3,410.31	417.91
22 11 23 23-0029	EA	3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF) .....	3,674.83	459.37
22 11 23 23-0030	EA	5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF) .....	4,037.36	487.19
22 11 23 23-0031	EA	7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF).....	5,031.50	541.33
22 11 23 23-0032	EA	10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF) .....	5,401.16	649.70
22 11 23 23-0033	EA	15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF) .....	6,829.68	758.19

**22 12 Facility Potable-Water Storage Tanks (22 10)**

**22 12 19 Facility Ground-Mounted, Potable-Water Storage Tanks (22 12)**

**22 12 19 00-0001 Steel, Horizontal, Ground-Mounted Water Tanks (22 12 19)**

22 12 19 00-0002	EA	5,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	26,703.58	7,326.02
22 12 19 00-0003	EA	10,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	29,773.30	7,326.02
22 12 19 00-0004	EA	20,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	52,626.30	11,305.62
22 12 19 00-0005	EA	35,000 Gallon, Steel, Horizontal, Ground-Mounted Water Tank.....	67,959.92	14,652.06

**22 12 19 00-0006 Galvanized Steel, Flat Bottom, Vertical Storage Tanks (22 12 19)**

22 12 19 00-0007	EA	5,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	31,251.32	7,326.02
22 12 19 00-0008	EA	10,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	41,938.52	7,326.02
22 12 19 00-0009	EA	20,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	62,800.28	11,305.62
22 12 19 00-0010	EA	35,000 Gallon Galvanized Steel, Flat Bottom, Vertical Storage Tank.....	89,071.30	14,652.06

**22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)**

**22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)**

**22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)**

22 12 23 13-0002	EA	80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A) .....	2,155.03	432.90
22 12 23 13-0003	EA	119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M).....	2,672.00	541.13
22 12 23 13-0004	EA	140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A).....	4,746.83	595.24
22 12 23 13-0005	EA	200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A).....	5,245.38	649.35
22 12 23 13-0006	EA	250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A).....	10,150.80	703.47
22 12 23 13-0007	EA	350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A).....	8,816.00	757.58
22 12 23 13-0008	EA	400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A).....	14,909.56	811.69
22 12 23 13-0009	EA	500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A).....	13,793.63	865.80
22 12 23 13-0010	EA	750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A).....	14,975.25	919.92
22 12 23 13-0011	EA	1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A).....	17,786.92	974.03



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 12 23 13-0012</b> <b>Uninsulated Glass Lined Storage Tank (A.O. Smith T)</b> <small>(22 12 23 13)</small>		
22 12 23 13-0013    EA    80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S).....	1,872.81	432.90
22 12 23 13-0014    EA    120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S).....	3,466.90	541.13
22 12 23 13-0015    EA    140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A) .....	4,297.98	595.24
22 12 23 13-0016    EA    200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S).....	5,273.17	649.35
22 12 23 13-0017    EA    200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A) .....	4,523.26	649.35
22 12 23 13-0018    EA    250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A) .....	6,857.63	703.47
22 12 23 13-0019    EA    325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A) .....	7,420.09	757.58
22 12 23 13-0020    EA    350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S).....	7,079.42	757.58
22 12 23 13-0021    EA    350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A) .....	6,490.11	757.58
22 12 23 13-0022    EA    400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A) .....	8,777.46	811.69
22 12 23 13-0023    EA    500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A) .....	9,515.15	865.80
22 12 23 13-0024    EA    750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A) .....	11,007.98	919.92
22 12 23 13-0025    EA    1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A) .....	20,310.26	974.03
<b>22 12 23 26</b> <b>Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks</b> <small>(22 12 23)</small>		
<b>22 12 23 26-0001</b> <b>Horizontal Non-Pressurized Polyethylene Tanks</b> <small>(22 12 23 26)</small>		
<i>Note: Excludes excavation and backfill.</i>		
22 12 23 26-0002    EA    100 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	512.77	243.51
<i>For Saddle Assembly, Add</i>	<i>553.47</i>	
22 12 23 26-0003    EA    150 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	599.88	284.09
<i>For Saddle Assembly, Add</i>	<i>553.47</i>	
22 12 23 26-0004    EA    200 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	703.49	324.68
<i>For Saddle Assembly, Add</i>	<i>609.57</i>	
22 12 23 26-0005    EA    300 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	836.80	365.26
<i>For Saddle Assembly, Add</i>	<i>828.47</i>	
22 12 23 26-0006    EA    335 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	982.22	405.85
<i>For Two Tie Down Bands, Add</i>	<i>333.03</i>	
22 12 23 26-0007    EA    535 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	1,213.53	496.90
<i>For Two Tie Down Bands, Add</i>	<i>348.43</i>	
22 12 23 26-0008    EA    1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	1,716.95	579.73
<i>For Three Tie Down Bands, Add</i>	<i>572.15</i>	
22 12 23 26-0009    EA    1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	2,373.88	662.54
<i>For Three Tie Down Bands, Add</i>	<i>575.45</i>	
22 12 23 26-0010    EA    1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	2,914.40	745.36
<i>For Four Tie Down Bands, Add</i>	<i>776.06</i>	
22 12 23 26-0011    EA    2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	3,387.22	828.17
<i>For Four Tie Down Bands, Add</i>	<i>1,000.46</i>	
22 12 23 26-0012    EA    2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	4,679.64	911.00
<i>For Four Tie Down Bands, Add</i>	<i>1,246.86</i>	
22 12 23 26-0013    EA    3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	5,384.07	993.81
<i>For Four Tie Down Bands, Add</i>	<i>1,330.46</i>	
22 12 23 26-0014    EA    4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	7,672.76	1,325.08
<i>For Four Tie Down Bands, Add</i>	<i>1,475.66</i>	
22 12 23 26-0015    EA    5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank .....	9,694.46	1,325.08
<i>For Five Tie Down Bands, Add</i>	<i>2,246.07</i>	
<b>22 12 23 26-0016</b> <b>Vertical Non-Pressurized Polyethylene Tanks</b> <small>(22 12 23 26)</small>		
22 12 23 26-0017    EA    100 Gallon Vertical Non-Pressurized Polyethylene Tank .....	598.99	324.68
22 12 23 26-0018    EA    160 Gallon Vertical Non-Pressurized Polyethylene Tank .....	690.95	344.97
22 12 23 26-0019    EA    210 Gallon Vertical Non-Pressurized Polyethylene Tank .....	749.90	365.26
22 12 23 26-0020    EA    300 Gallon Vertical Non-Pressurized Polyethylene Tank .....	884.32	405.85
22 12 23 26-0021    EA    405 Gallon Vertical Non-Pressurized Polyethylene Tank .....	1,024.44	487.01
22 12 23 26-0022    EA    500 Gallon Vertical Non-Pressurized Polyethylene Tank .....	1,205.27	568.19
22 12 23 26-0023    EA    800 Gallon Vertical Non-Pressurized Polyethylene Tank .....	1,547.78	662.54
22 12 23 26-0024    EA    1,000 Gallon Vertical Non-Pressurized Polyethylene Tank .....	1,986.42	828.17
22 12 23 26-0025    EA    2,000 Gallon Vertical Non-Pressurized Polyethylene Tank .....	2,598.87	993.81
22 12 23 26-0026    EA    3,000 Gallon Vertical Non-Pressurized Polyethylene Tank .....	3,314.71	1,159.44
22 12 23 26-0027    EA    4,000 Gallon Vertical Non-Pressurized Polyethylene Tank .....	4,649.86	1,325.08
22 12 23 26-0028    EA    5,000 Gallon Vertical Non-Pressurized Polyethylene Tank .....	6,114.81	1,490.71
22 12 23 26-0029    EA    6,250 Gallon Vertical Non-Pressurized Polyethylene Tank .....	6,912.05	1,656.35
22 12 23 26-0030    EA    7,000 Gallon Vertical Non-Pressurized Polyethylene Tank .....	7,614.70	1,821.98
22 12 23 26-0031    EA    8,000 Gallon Vertical Non-Pressurized Polyethylene Tank .....	8,706.76	1,987.62
22 12 23 26-0032    EA    9,150 Gallon Vertical Non-Pressurized Polyethylene Tank .....	9,780.10	2,153.25
22 12 23 26-0033    EA    10,500 Gallon Vertical Non-Pressurized Polyethylene Tank .....	11,898.45	2,318.89
22 12 23 26-0034    EA    12,500 Gallon Vertical Non-Pressurized Polyethylene Tank .....	14,232.14	2,650.17

**22 13**    **Facility Sanitary Sewerage** (22 10)

**22 13 13**    **Facility Sanitary Sewers** (22 13)



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

22 13 13 00-0001		<b>Fixture Rough-In</b> <sup>(22 13 13)</sup> Note: Excludes fixture. Not for use when individual component details are available, on remodeling work where partial pipe and fittings are installed or on residential projects. For use on commercial restrooms with multiple toilets, urinals and lavatories. Includes waste and vent pipe and fittings and domestic water supply pipe and fittings. Waste piping is included from fixture outlet tee to floor, vent piping is included from outlet tee within the wall to the ceiling and domestic water supply from ceiling to fixture and stub out with caps. Based on vertical floor to floor of 12'. Use detailed tasks (i.e. individual pipe and fittings, insulation, hangers, etc.) instead of rough-in assembly where possible. See CSI section 22 07 19 00-0000 for insulation, 22 11 16 00-0345 for copper pipe and fittings, 22 13 16 00-0000 for PVC or cast iron sanitary waste and vent pipe and fittings, 23 05 29 00-0000 for hangers.	
22 13 13 00-0002		<b>Single Fixture Rough-In, Cast Iron Waste And Vent Pipe</b> <sup>(22 13 13 00-0001)</sup> Note: Single fixtures have one fixture to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.	
22 13 13 00-0003	EA	Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....818.11 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	
22 13 13 00-0004	EA	Wall Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....986.66 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	
22 13 13 00-0005	EA	Tank Type Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....762.10 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	
22 13 13 00-0006	EA	Wall Mounted Urinal, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....474.89 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	
22 13 13 00-0007	EA	Wall Mounted Lavatory, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....558.08 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	
22 13 13 00-0008	EA	Countertop Kitchen Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....736.37 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	
22 13 13 00-0009	EA	Bathtub, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....763.18 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	
22 13 13 00-0010	EA	Free Standing Water Cooler, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....464.80 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	
22 13 13 00-0011	EA	Floor Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....762.10 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	
22 13 13 00-0012	EA	Wall Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....798.17 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	
22 13 13 00-0013	EA	Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....744.04 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	
22 13 13 00-0014	EA	Bidet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe.....818.11 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	
22 13 13 00-0015	EA	Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,272.19 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	
22 13 13 00-0016	EA	Bathtub/Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe .....790.27 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	
22 13 13 00-0017		<b>Double Fixture Rough-In, Cast Iron Waste And Vent Pipe</b> <sup>(22 13 13 00-0001)</sup> Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.	
22 13 13 00-0018	EA	Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,027.47 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	
22 13 13 00-0019	EA	Wall Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,322.71 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	
22 13 13 00-0020	EA	Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....890.57 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	
22 13 13 00-0021	EA	Wall Mounted Urinal, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....546.94 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	
22 13 13 00-0022	EA	Wall Mounted Lavatory, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....769.80 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	
22 13 13 00-0023	EA	Countertop Kitchen Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....809.28 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	
22 13 13 00-0024	EA	Free Standing Water Cooler, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....525.14 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	
22 13 13 00-0025	EA	Floor Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....901.38 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	
22 13 13 00-0026	EA	Wall Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....829.56 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	
22 13 13 00-0027	EA	Shower, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....802.53 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.	
22 13 13 00-0028	EA	Bidet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe .....1,027.47 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucets.	
22 13 13 00-0029		<b>Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe</b> <sup>(22 13 13 00-0001)</sup> Note: Gang fixtures include multiple fixtures to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.	
22 13 13 00-0030	EA	Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe .....513.23 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	



<b>Plumbing</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>
<b>Facility Sanitary Sewerage</b>	<b>22 13</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0031 EA Wall Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe ..... Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.	661.35	
22 13 13 00-0032 EA Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe ..... Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture.	445.82	
22 13 13 00-0033 EA Wall Mounted Urinal, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe ..... Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.	274.01	
22 13 13 00-0034 EA Wall Mounted Lavatory, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe ..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	384.92	
22 13 13 00-0035 EA Countertop Kitchen Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe ..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	404.62	
22 13 13 00-0036 EA Free Standing Water Cooler, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe ..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	289.62	
22 13 13 00-0037 EA Rough-in Service Sink, Floor Mounted, Gang Mounted Fixture Including Cast Iron Waste Pipe And Vent And Copper Domestic Supply, Not Including Fixture Or Faucet ..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	450.16	
22 13 13 00-0038 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe ..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	414.77	
22 13 13 00-0039 EA Shower, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe ..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.	401.78	
22 13 13 00-0040 EA Bidet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe ..... Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	505.64	
<b>22 13 13 00-0041 Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe</b> <small>(22 13 13 00-0001)</small> Note: Single fixtures have one fixture to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0042 EA Floor Mounted Water Closet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	465.81	
22 13 13 00-0043 EA Wall Mounted Water Closet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	423.41	
22 13 13 00-0044 EA Tank Type Floor Mounted Water Closet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	458.31	
22 13 13 00-0045 EA Wall Mounted Urinal, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	259.58	
22 13 13 00-0046 EA Wall Mounted Lavatory, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	302.69	
22 13 13 00-0047 EA Countertop Kitchen Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	434.82	
22 13 13 00-0048 EA Bathtub, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	422.25	
22 13 13 00-0049 EA Free Standing Water Cooler, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	262.28	
22 13 13 00-0050 EA Floor Mounted Service Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	458.31	
22 13 13 00-0051 EA Wall Mounted Service Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	499.30	
22 13 13 00-0052 EA Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	451.85	
22 13 13 00-0053 EA Bidet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	465.68	
22 13 13 00-0054 EA Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	710.24	
22 13 13 00-0055 EA Bathtub/Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	445.93	
<b>22 13 13 00-0056 Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe</b> <small>(22 13 13 00-0001)</small> Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0057 EA Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	533.40	
22 13 13 00-0058 EA Wall Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	546.78	
22 13 13 00-0059 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	467.00	
22 13 13 00-0060 EA Wall Mounted Urinal, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe ..... Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	269.05	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0061 EA Wall Mounted Lavatory, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....431.06 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures, carrier and faucets.	431.06	
22 13 13 00-0062 EA Countertop Kitchen Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....444.41 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures and faucets.	444.41	
22 13 13 00-0063 EA Free Standing Water Cooler, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....270.22 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	270.22	
22 13 13 00-0064 EA Floor Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....476.62 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	476.62	
22 13 13 00-0065 EA Wall Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....503.43 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	503.43	
22 13 13 00-0066 EA Shower, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....479.29 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	479.29	
22 13 13 00-0067 EA Bidet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....533.40 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	533.40	
<b>22 13 13 00-0068 Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe (22 13 13 00-0061)</b> Note: Gang fixtures include multiple fixtures to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0069 EA Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....266.26 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	266.26	
22 13 13 00-0070 EA Wall Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....272.86 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	272.86	
22 13 13 00-0071 EA Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....233.81 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	233.81	
22 13 13 00-0072 EA Wall Mounted Urinal, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....134.57 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	134.57	
22 13 13 00-0073 EA Wall Mounted Lavatory, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....215.50 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	215.50	
22 13 13 00-0074 EA Countertop Kitchen Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....221.93 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	221.93	
22 13 13 00-0075 EA Free Standing Water Cooler, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....135.10 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	135.10	
22 13 13 00-0076 EA Floor Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....238.21 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	238.21	
22 13 13 00-0077 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....251.76 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	251.76	
22 13 13 00-0078 EA Shower, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....240.11 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	240.11	
22 13 13 00-0079 EA Bidet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....259.08 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	259.08	
<b>22 13 16 Sanitary Waste And Vent Piping (22 13)</b>		
<b>22 13 16 00-0001 Cast Iron Soil Pipe Assemblies (22 13 16)</b>		
<b>22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)</b> Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.		
22 13 16 00-0003 LF 2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....27.11 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	27.11	6.81
<i>For Work In Restricted Working Space, Add</i>	5.00	
22 13 16 00-0004 LF 3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....38.26 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	38.26	10.28
<i>For Work In Restricted Working Space, Add</i>	6.79	
22 13 16 00-0005 LF 4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....49.53 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	49.53	13.10
<i>For Work In Restricted Working Space, Add</i>	8.73	
22 13 16 00-0006 LF 5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....54.80 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	54.80	15.17
<i>For Work In Restricted Working Space, Add</i>	8.54	
22 13 16 00-0007 LF 6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly .....63.68 Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	63.68	16.53
<i>For Work In Restricted Working Space, Add</i>	9.48	



	<b>Plumbing</b>	<b>22</b>
	<b>Plumbing Piping</b>	<b>22 10</b>
	<b>Facility Sanitary Sewerage</b>	<b>22 13</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0008	LF		8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly ..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	99.17	23.66
			<i>For Work In Restricted Working Space, Add</i>	13.40	
22 13 16 00-0009	LF		10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly ..... Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.	139.98	23.66
			<i>For Work In Restricted Working Space, Add</i>	15.17	
<b>22 13 16 00-0010</b>			<b>Aboveground No Hub Cast Iron Soil Pipe Assemblies</b> <small>(22 13 16 00-0001)</small> Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
22 13 16 00-0011	LF		1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	23.70	6.49
			<i>For Work In Restricted Working Space, Add</i>	5.42	
22 13 16 00-0012	LF		2" Aboveground No Hub Cast Iron Soil Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	25.30	6.92
			<i>For Work In Restricted Working Space, Add</i>	5.85	
22 13 16 00-0013	LF		3" Aboveground No Hub Cast Iron Soil Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	32.89	10.06
			<i>For Work In Restricted Working Space, Add</i>	7.50	
22 13 16 00-0014	LF		4" Aboveground No Hub Cast Iron Soil Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	40.61	13.10
			<i>For Work In Restricted Working Space, Add</i>	9.25	
22 13 16 00-0015	LF		5" Aboveground No Hub Cast Iron Soil Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	63.15	14.88
			<i>For Work In Restricted Working Space, Add</i>	14.20	
22 13 16 00-0016	LF		6" Aboveground No Hub Cast Iron Soil Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	69.17	16.24
			<i>For Work In Restricted Working Space, Add</i>	15.19	
22 13 16 00-0017	LF		8" Aboveground No Hub Cast Iron Soil Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	112.66	23.46
			<i>For Work In Restricted Working Space, Add</i>	24.43	
22 13 16 00-0018	LF		10" Aboveground No Hub Cast Iron Soil Pipe Assembly ..... Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.	110.56	26.66
			<i>For Work In Restricted Working Space, Add</i>	17.80	
<b>22 13 16 00-0019</b>			<b>Bell And Spigot Cast Iron Soil Pipe And Fittings</b> <small>(22 13 16)</small> Note: Service weight. ASTM A74 and CISPI 301 (Fitting Requirements).		
<b>22 13 16 00-0020</b>			<b>Bell And Spigot Cast Iron Pipe</b> <small>(22 13 16 00-0019)</small> Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021	LF		2" Bell And Spigot Cast Iron Pipe ..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.67 3.51 0.52 3.09	6.81
22 13 16 00-0022	LF		3" Bell And Spigot Cast Iron Pipe ..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.44 5.03 0.77 4.64	10.28
22 13 16 00-0023	LF		4" Bell And Spigot Cast Iron Pipe ..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	35.26 6.54 0.98 5.90	13.10
22 13 16 00-0024	LF		5" Bell And Spigot Cast Iron Pipe ..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	44.68 9.24 1.13 6.81	15.17
22 13 16 00-0025	LF		6" Bell And Spigot Cast Iron Pipe ..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	51.53 11.25 1.24 7.43	16.53
22 13 16 00-0026	LF		8" Bell And Spigot Cast Iron Pipe ..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	77.15 17.49 1.78 10.65	23.66
22 13 16 00-0027	LF		10" Bell And Spigot Cast Iron Pipe ..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	109.28 29.12 2.00 11.98	26.66
22 13 16 00-0028	LF		12" Bell And Spigot Cast Iron Pipe ..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	153.98 42.31 2.66 15.98	35.54

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0029 LF 15" Bell And Spigot Cast Iron Pipe .....	211.12	42.63
For Extra Heavy Pipe, Add	61.83	
For Above Ground Cast Iron Pipe Installation, Add	3.20	
For Work In Restricted Working Space, Add	19.17	
<b>22 13 16 00-0030 Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)</b>		
<b>22 13 16 00-0031 Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)</b>		
22 13 16 00-0032 EA 2" Bell And Spigot Cast Iron Long Sweep .....	84.27	31.07
For Extra Heavy Fittings, Add	13.21	
For Above Ground Cast Iron Pipe Installation, Add	2.33	
For Work In Restricted Working Space, Add	13.96	
22 13 16 00-0033 EA 3" Bell And Spigot Cast Iron Long Sweep .....	135.05	39.07
For Extra Heavy Fittings, Add	26.79	
For Above Ground Cast Iron Pipe Installation, Add	2.93	
For Work In Restricted Working Space, Add	17.55	
22 13 16 00-0034 EA 4" Bell And Spigot Cast Iron Long Sweep .....	179.90	51.95
For Extra Heavy Fittings, Add	35.71	
For Above Ground Cast Iron Pipe Installation, Add	3.89	
For Work In Restricted Working Space, Add	23.36	
22 13 16 00-0035 EA 6" Bell And Spigot Cast Iron Long Sweep .....	268.00	64.17
For Extra Heavy Fittings, Add	60.13	
For Above Ground Cast Iron Pipe Installation, Add	4.81	
For Work In Restricted Working Space, Add	28.86	
22 13 16 00-0036 EA 8" Bell And Spigot Cast Iron Long Sweep .....	507.98	83.27
For Extra Heavy Fittings, Add	134.11	
For Above Ground Cast Iron Pipe Installation, Add	6.24	
For Work In Restricted Working Space, Add	37.44	
22 13 16 00-0037 EA 10" Bell And Spigot Cast Iron Long Sweep .....	688.79	102.44
For Extra Heavy Fittings, Add	187.31	
For Above Ground Cast Iron Pipe Installation, Add	7.68	
For Work In Restricted Working Space, Add	46.08	
22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep .....	1,048.77	142.97
For Extra Heavy Fittings, Add	292.04	
For Above Ground Cast Iron Pipe Installation, Add	10.72	
For Work In Restricted Working Space, Add	64.31	
22 13 16 00-0039 EA 15" Bell And Spigot Cast Iron Long Sweep .....	1,912.28	199.09
For Extra Heavy Fittings, Add	564.83	
For Above Ground Cast Iron Pipe Installation, Add	14.92	
For Work In Restricted Working Space, Add	89.54	
<b>22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)</b>		
22 13 16 00-0041 EA 2" Bell And Spigot Cast Iron Short Sweep .....	74.31	31.07
For Extra Heavy Fittings, Add	9.72	
For Above Ground Cast Iron Pipe Installation, Add	2.33	
For Work In Restricted Working Space, Add	13.96	
22 13 16 00-0042 EA 3" Bell And Spigot Cast Iron Short Sweep .....	118.34	39.07
For Extra Heavy Fittings, Add	20.94	
For Above Ground Cast Iron Pipe Installation, Add	2.93	
For Work In Restricted Working Space, Add	17.55	
22 13 16 00-0043 EA 4" Bell And Spigot Cast Iron Short Sweep .....	161.10	51.95
For Extra Heavy Fittings, Add	29.13	
For Above Ground Cast Iron Pipe Installation, Add	3.89	
For Work In Restricted Working Space, Add	23.36	
22 13 16 00-0044 EA 5" Bell And Spigot Cast Iron Short Sweep .....	225.68	54.55
For Extra Heavy Fittings, Add	50.38	
For Above Ground Cast Iron Pipe Installation, Add	4.09	
For Work In Restricted Working Space, Add	24.53	
22 13 16 00-0045 EA 6" Bell And Spigot Cast Iron Short Sweep .....	271.58	64.17
For Extra Heavy Fittings, Add	61.38	
For Above Ground Cast Iron Pipe Installation, Add	4.81	
For Work In Restricted Working Space, Add	28.86	
22 13 16 00-0046 EA 8" Bell And Spigot Cast Iron Short Sweep .....	435.93	83.27
For Extra Heavy Fittings, Add	108.89	
For Above Ground Cast Iron Pipe Installation, Add	6.24	
For Work In Restricted Working Space, Add	37.44	
22 13 16 00-0047 EA 10" Bell And Spigot Cast Iron Short Sweep .....	627.32	102.44
For Extra Heavy Fittings, Add	165.80	
For Above Ground Cast Iron Pipe Installation, Add	7.68	
For Work In Restricted Working Space, Add	46.08	
22 13 16 00-0048 EA 12" Bell And Spigot Cast Iron Short Sweep .....	1,025.84	142.97
For Extra Heavy Fittings, Add	284.01	
For Above Ground Cast Iron Pipe Installation, Add	10.72	
For Work In Restricted Working Space, Add	64.31	
<b>22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)</b>		
22 13 16 00-0050 EA 2" Bell And Spigot Cast Iron 1/4 Bend .....	68.62	30.95
For Extra Heavy Fittings, Add	7.76	
For Above Ground Cast Iron Pipe Installation, Add	2.32	
For Work In Restricted Working Space, Add	13.94	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0051	EA		3" Bell And Spigot Cast Iron 1/4 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	96.59 15.51 2.61 15.68	34.84
22 13 16 00-0052	EA		4" Bell And Spigot Cast Iron 1/4 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.11 23.28 3.48 20.88	46.43
22 13 16 00-0053	EA		5" Bell And Spigot Cast Iron 1/4 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.33 31.27 3.65 21.90	48.71
22 13 16 00-0054	EA		6" Bell And Spigot Cast Iron 1/4 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	195.16 37.67 4.38 26.26	58.34
22 13 16 00-0055	EA		8" Bell And Spigot Cast Iron 1/4 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	382.01 93.48 5.75 34.48	76.68
22 13 16 00-0056	EA		10" Bell And Spigot Cast Iron 1/4 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	552.71 144.63 6.97 41.85	93.05
22 13 16 00-0057	EA		12" Bell And Spigot Cast Iron 1/4 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	721.88 195.02 8.23 49.41	109.83
22 13 16 00-0058	EA		15" Bell And Spigot Cast Iron 1/4 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,787.44 534.72 12.98 77.90	173.22
<b>22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)</b>					
22 13 16 00-0060	EA		2" Bell And Spigot Cast Iron 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.25 6.20 2.33 13.96	31.07
22 13 16 00-0061	EA		3" Bell And Spigot Cast Iron 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	95.04 12.79 2.93 17.55	39.07
22 13 16 00-0062	EA		4" Bell And Spigot Cast Iron 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	133.30 19.40 3.89 23.36	51.95
22 13 16 00-0063	EA		5" Bell And Spigot Cast Iron 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	161.27 24.47 4.57 27.41	60.96
22 13 16 00-0064	EA		6" Bell And Spigot Cast Iron 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	185.20 29.13 5.10 30.59	67.97
22 13 16 00-0065	EA		8" Bell And Spigot Cast Iron 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	345.98 72.89 6.89 41.31	91.85
22 13 16 00-0066	EA		10" Bell And Spigot Cast Iron 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	475.84 107.07 8.50 50.98	113.32
22 13 16 00-0067	EA		12" Bell And Spigot Cast Iron 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	749.60 185.26 11.01 66.08	146.97
22 13 16 00-0068	EA		15" Bell And Spigot Cast Iron 1/8 Bend ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,378.79 391.69 12.98 77.90	173.22
<b>22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)</b>					
22 13 16 00-0070	EA		2" Bell And Spigot Cast Iron Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.09 5.96 5.20 31.22	69.38
22 13 16 00-0071	EA		3" Bell And Spigot Cast Iron Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.82 11.17 5.70 34.18	75.98

**22 Plumbing**  
**22 10 Plumbing Piping**  
**22 13 Facility Sanitary Sewerage**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0072	EA		4" Bell And Spigot Cast Iron Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.70 14.86 7.46 44.77	99.57
22 13 16 00-0073	EA		5" Bell And Spigot Cast Iron Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	228.09 24.76 7.87 47.20	104.92
22 13 16 00-0074	EA		6" Bell And Spigot Cast Iron Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	282.35 33.55 9.32 55.95	124.36
22 13 16 00-0075	EA		8" Bell And Spigot Cast Iron Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	486.55 82.27 12.58 75.45	167.74
22 13 16 00-0076	EA		10" Bell And Spigot Cast Iron Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	658.36 130.58 14.26 85.58	190.30
22 13 16 00-0077	EA		12" Bell And Spigot Cast Iron Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	947.49 210.07 17.36 104.18	231.64
22 13 16 00-0078	EA		15" Bell And Spigot Cast Iron Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,417.39 359.72 19.48 116.89	259.90
<b>22 13 16 00-0079</b>			<b>Bell And Spigot Cast Iron Reducing Wyes</b> <small>(22 13 16 00-0030)</small>		
22 13 16 00-0080	EA		3" x 2" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	170.00 21.44 5.44 32.62	72.51
22 13 16 00-0081	EA		4" x 2" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	207.71 25.66 6.72 40.32	89.61
22 13 16 00-0082	EA		4" x 3" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	227.06 31.23 6.89 41.35	91.88
22 13 16 00-0083	EA		6" x 2" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	315.71 52.05 8.35 50.10	111.44
22 13 16 00-0084	EA		6" x 3" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	323.50 53.67 8.51 51.05	113.48
22 13 16 00-0085	EA		6" x 4" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	339.80 55.40 9.08 54.45	121.06
22 13 16 00-0086	EA		8" x 2" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	478.06 96.55 10.11 60.66	134.89
22 13 16 00-0087	EA		8" x 3" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	497.86 102.12 10.30 61.82	137.48
22 13 16 00-0088	EA		8" x 4" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	511.56 103.49 10.79 64.76	143.97
22 13 16 00-0089	EA		8" x 6" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	599.21 125.67 12.01 72.05	160.15
22 13 16 00-0090	EA		10" x 3" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	714.02 171.16 11.25 67.50	150.07
22 13 16 00-0091	EA		10" x 4" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	743.07 177.85 11.75 70.48	156.66
22 13 16 00-0092	EA		10" x 6" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	813.84 193.96 12.98 77.90	173.22



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0093	EA		10" x 8" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,052.34 271.92 13.77 82.63	183.72
22 13 16 00-0094	EA		12" x 4" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,080.31 281.71 13.77 82.63	183.72
22 13 16 00-0095	EA		12" x 6" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,128.51 290.51 14.92 89.54	199.09
22 13 16 00-0096	EA		12" x 8" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,312.16 349.63 15.66 93.97	208.97
22 13 16 00-0097	EA		12" x 10" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,574.72 438.24 16.13 96.78	215.16
22 13 16 00-0098	EA		15" x 4" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,523.70 776.84 15.21 91.25	202.88
22 13 16 00-0099	EA		15" x 6" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,638.01 808.07 16.46 98.77	219.56
22 13 16 00-0100	EA		15" x 8" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,694.66 822.94 17.17 103.02	229.04
22 13 16 00-0101	EA		15" x 10" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,758.67 841.28 17.75 106.50	236.83
22 13 16 00-0102	EA		15" x 12" Bell And Spigot Cast Iron Reducing Wye ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,832.48 859.87 18.79 112.71	250.61
<b>22 13 16 00-0103 Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)</b>					
22 13 16 00-0104	EA		2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.39 8.52 5.20 31.22	69.38
22 13 16 00-0105	EA		3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.32 12.74 5.70 34.18	75.98
22 13 16 00-0106	EA		4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	199.52 17.60 7.46 44.77	99.57
22 13 16 00-0107	EA		5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	256.08 31.89 8.25 49.49	110.07
22 13 16 00-0108	EA		6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	320.01 40.38 10.23 61.39	136.52
22 13 16 00-0109	EA		8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	551.60 98.29 13.54 81.23	180.62
22 13 16 00-0110	EA		10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	783.47 149.96 17.75 106.50	236.83
22 13 16 00-0111	EA		12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,043.59 205.51 22.82 136.93	304.42
<b>22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0030)</b>					
22 13 16 00-0113	EA		3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	136.04 9.56 5.44 32.62	72.51

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0114 EA 4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	184.56	89.61
For Extra Heavy Fittings, Add	17.55	
For Above Ground Cast Iron Pipe Installation, Add	6.72	
For Work In Restricted Working Space, Add	40.32	
22 13 16 00-0115 EA 4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	196.51	91.88
For Extra Heavy Fittings, Add	20.54	
For Above Ground Cast Iron Pipe Installation, Add	6.89	
For Work In Restricted Working Space, Add	41.35	
22 13 16 00-0116 EA 6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	271.89	111.44
For Extra Heavy Fittings, Add	36.72	
For Above Ground Cast Iron Pipe Installation, Add	8.35	
For Work In Restricted Working Space, Add	50.10	
22 13 16 00-0117 EA 6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	281.89	113.48
For Extra Heavy Fittings, Add	39.10	
For Above Ground Cast Iron Pipe Installation, Add	8.51	
For Work In Restricted Working Space, Add	51.05	
22 13 16 00-0118 EA 6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	299.20	121.06
For Extra Heavy Fittings, Add	41.19	
For Above Ground Cast Iron Pipe Installation, Add	9.08	
For Work In Restricted Working Space, Add	54.45	
22 13 16 00-0119 EA 8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	396.66	134.89
For Extra Heavy Fittings, Add	68.06	
For Above Ground Cast Iron Pipe Installation, Add	10.11	
For Work In Restricted Working Space, Add	60.66	
22 13 16 00-0120 EA 8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	410.33	143.97
For Extra Heavy Fittings, Add	68.06	
For Above Ground Cast Iron Pipe Installation, Add	10.79	
For Work In Restricted Working Space, Add	64.76	
22 13 16 00-0121 EA 8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	507.09	160.15
For Extra Heavy Fittings, Add	93.43	
For Above Ground Cast Iron Pipe Installation, Add	12.01	
For Work In Restricted Working Space, Add	72.05	
<b>22 13 16 00-0122 Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)</b>		
22 13 16 00-0123 EA 2" Bell And Spigot Cast Iron Double Wye .....	191.68	83.00
For Extra Heavy Fittings, Add	23.55	
For Above Ground Cast Iron Pipe Installation, Add	6.22	
For Work In Restricted Working Space, Add	37.32	
22 13 16 00-0124 EA 3" Bell And Spigot Cast Iron Double Wye .....	269.81	104.65
For Extra Heavy Fittings, Add	39.54	
For Above Ground Cast Iron Pipe Installation, Add	7.84	
For Work In Restricted Working Space, Add	47.06	
22 13 16 00-0125 EA 4" Bell And Spigot Cast Iron Double Wye .....	360.69	132.36
For Extra Heavy Fittings, Add	56.76	
For Above Ground Cast Iron Pipe Installation, Add	9.93	
For Work In Restricted Working Space, Add	59.55	
22 13 16 00-0126 EA 6" Bell And Spigot Cast Iron Double Wye .....	646.24	191.07
For Extra Heavy Fittings, Add	125.92	
For Above Ground Cast Iron Pipe Installation, Add	14.32	
For Work In Restricted Working Space, Add	85.94	
22 13 16 00-0127 EA 8" Bell And Spigot Cast Iron Double Wye .....	1,215.60	226.74
For Extra Heavy Fittings, Add	306.50	
For Above Ground Cast Iron Pipe Installation, Add	16.99	
For Work In Restricted Working Space, Add	101.97	
22 13 16 00-0128 EA 10" Bell And Spigot Cast Iron Double Wye .....	1,586.80	253.70
For Extra Heavy Fittings, Add	422.25	
For Above Ground Cast Iron Pipe Installation, Add	19.02	
For Work In Restricted Working Space, Add	114.11	
22 13 16 00-0129 EA 12" Bell And Spigot Cast Iron Double Wye .....	1,166.66	304.42
For Extra Heavy Fittings, Add	248.58	
For Above Ground Cast Iron Pipe Installation, Add	22.82	
For Work In Restricted Working Space, Add	136.93	
22 13 16 00-0130 EA 15" Bell And Spigot Cast Iron Double Wye .....	3,011.43	319.50
For Extra Heavy Fittings, Add	886.26	
For Above Ground Cast Iron Pipe Installation, Add	23.96	
For Work In Restricted Working Space, Add	143.78	
<b>22 13 16 00-0131 Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)</b>		
22 13 16 00-0132 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Wye .....	186.91	98.16
For Extra Heavy Fittings, Add	13.90	
For Above Ground Cast Iron Pipe Installation, Add	7.36	
For Work In Restricted Working Space, Add	44.16	
22 13 16 00-0133 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Wye .....	216.44	112.77
For Extra Heavy Fittings, Add	16.57	
For Above Ground Cast Iron Pipe Installation, Add	8.46	
For Work In Restricted Working Space, Add	50.73	
22 13 16 00-0134 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Wye .....	232.27	118.29
For Extra Heavy Fittings, Add	19.20	
For Above Ground Cast Iron Pipe Installation, Add	8.87	
For Work In Restricted Working Space, Add	53.23	



	<b>Plumbing</b>	<b>22</b>
	<b>Plumbing Piping</b>	<b>22 10</b>
	<b>Facility Sanitary Sewerage</b>	<b>22 13</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0135 EA 6" x 2" Bell And Spigot Cast Iron Reducing Double Wye .....	280.55	132.53
For Extra Heavy Fittings, Add	28.65	
For Above Ground Cast Iron Pipe Installation, Add	9.93	
For Work In Restricted Working Space, Add	59.60	
22 13 16 00-0136 EA 6" x 3" Bell And Spigot Cast Iron Reducing Double Wye .....	295.92	137.59
For Extra Heavy Fittings, Add	31.38	
For Above Ground Cast Iron Pipe Installation, Add	10.31	
For Work In Restricted Working Space, Add	61.88	
22 13 16 00-0137 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Wye .....	336.27	150.04
For Extra Heavy Fittings, Add	38.97	
For Above Ground Cast Iron Pipe Installation, Add	11.25	
For Work In Restricted Working Space, Add	67.48	
22 13 16 00-0138 EA 8" x 4" Bell And Spigot Cast Iron Reducing Double Wye .....	509.09	174.72
For Extra Heavy Fittings, Add	86.52	
For Above Ground Cast Iron Pipe Installation, Add	13.09	
For Work In Restricted Working Space, Add	78.57	
22 13 16 00-0139 EA 8" x 6" Bell And Spigot Cast Iron Reducing Double Wye .....	563.04	206.77
For Extra Heavy Fittings, Add	88.54	
For Above Ground Cast Iron Pipe Installation, Add	15.50	
For Work In Restricted Working Space, Add	93.02	
22 13 16 00-0140 EA 10" x 4" Bell And Spigot Cast Iron Reducing Double Wye .....	542.77	186.90
For Extra Heavy Fittings, Add	91.88	
For Above Ground Cast Iron Pipe Installation, Add	14.01	
For Work In Restricted Working Space, Add	84.08	
22 13 16 00-0141 EA 10" x 6" Bell And Spigot Cast Iron Reducing Double Wye .....	633.45	219.56
For Extra Heavy Fittings, Add	106.47	
For Above Ground Cast Iron Pipe Installation, Add	16.46	
For Work In Restricted Working Space, Add	98.77	
22 13 16 00-0142 EA 10" x 8" Bell And Spigot Cast Iron Reducing Double Wye .....	764.46	239.32
For Extra Heavy Fittings, Add	141.97	
For Above Ground Cast Iron Pipe Installation, Add	17.94	
For Work In Restricted Working Space, Add	107.65	
22 13 16 00-0143 EA 12" x 6" Bell And Spigot Cast Iron Reducing Double Wye .....	781.02	244.82
For Extra Heavy Fittings, Add	144.88	
For Above Ground Cast Iron Pipe Installation, Add	18.35	
For Work In Restricted Working Space, Add	110.12	
22 13 16 00-0144 EA 12" x 8" Bell And Spigot Cast Iron Reducing Double Wye .....	974.33	266.38
For Extra Heavy Fittings, Add	201.24	
For Above Ground Cast Iron Pipe Installation, Add	19.97	
For Work In Restricted Working Space, Add	119.81	
<b>22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0030)</small>		
22 13 16 00-0146 EA 2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend .....	167.57	83.00
For Extra Heavy Fittings, Add	15.11	
For Above Ground Cast Iron Pipe Installation, Add	6.22	
For Work In Restricted Working Space, Add	37.32	
22 13 16 00-0147 EA 3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend .....	225.28	111.04
For Extra Heavy Fittings, Add	20.57	
For Above Ground Cast Iron Pipe Installation, Add	8.33	
For Work In Restricted Working Space, Add	49.95	
22 13 16 00-0148 EA 4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend .....	290.85	138.85
For Extra Heavy Fittings, Add	28.95	
For Above Ground Cast Iron Pipe Installation, Add	10.41	
For Work In Restricted Working Space, Add	62.44	
22 13 16 00-0149 EA 6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend .....	576.60	213.54
For Extra Heavy Fittings, Add	89.75	
For Above Ground Cast Iron Pipe Installation, Add	16.01	
For Work In Restricted Working Space, Add	96.05	
<b>22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0030)</small>		
22 13 16 00-0151 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend .....	217.47	99.57
For Extra Heavy Fittings, Add	23.88	
For Above Ground Cast Iron Pipe Installation, Add	7.46	
For Work In Restricted Working Space, Add	44.77	
22 13 16 00-0152 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend .....	255.07	112.77
For Extra Heavy Fittings, Add	30.09	
For Above Ground Cast Iron Pipe Installation, Add	8.46	
For Work In Restricted Working Space, Add	50.73	
22 13 16 00-0153 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend .....	285.72	125.55
For Extra Heavy Fittings, Add	34.15	
For Above Ground Cast Iron Pipe Installation, Add	9.41	
For Work In Restricted Working Space, Add	56.45	
22 13 16 00-0154 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend .....	512.60	159.27
For Extra Heavy Fittings, Add	95.82	
For Above Ground Cast Iron Pipe Installation, Add	11.94	
For Work In Restricted Working Space, Add	71.65	
<b>22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees</b> <small>(22 13 16 00-0030)</small>		

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0156 EA 2" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	137.80 11.77 5.21 31.25	69.48
22 13 16 00-0157 EA 3" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	155.00 14.38 5.70 34.18	75.98
22 13 16 00-0158 EA 4" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	233.09 32.72 6.98 41.88	93.07
22 13 16 00-0159 EA 5" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	311.99 58.25 7.28 43.67	97.04
22 13 16 00-0160 EA 6" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	374.24 69.90 8.73 52.36	116.40
22 13 16 00-0161 EA 8" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	755.64 184.05 11.49 68.94	153.26
22 13 16 00-0162 EA 10" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,113.13 291.50 14.01 84.08	186.90
22 13 16 00-0163 EA 12" Bell And Spigot Cast Iron Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,630.23 455.35 16.46 98.77	219.56
<b>22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees</b> (22 13 16 00-0030)		
22 13 16 00-0165 EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	173.19 22.56 5.44 32.62	72.51
22 13 16 00-0166 EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	204.52 27.02 6.37 38.20	84.95
22 13 16 00-0167 EA 4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	211.96 29.62 6.37 38.20	84.95
22 13 16 00-0168 EA 6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	305.80 48.58 8.35 50.10	111.44
22 13 16 00-0169 EA 6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	317.12 51.43 8.51 51.05	113.48
22 13 16 00-0170 EA 6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	342.98 56.51 9.08 54.45	121.06
22 13 16 00-0171 EA 8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	553.70 118.24 10.79 64.76	143.97
22 13 16 00-0172 EA 8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	684.55 155.54 12.01 72.05	160.15
<b>22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees</b> (22 13 16 00-0030)		
22 13 16 00-0174 EA 2" Bell And Spigot Cast Iron Vent Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.71 6.88 5.20 31.22	69.38
22 13 16 00-0175 EA 3" Bell And Spigot Cast Iron Vent Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	148.13 11.97 5.70 34.18	75.98
22 13 16 00-0176 EA 4" Bell And Spigot Cast Iron Vent Tee ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	195.59 16.22 7.46 44.77	99.57



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0177 EA 5" Bell And Spigot Cast Iron Vent Tee..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	234.13 24.21 8.25 49.49	110.07
22 13 16 00-0178 EA 6" Bell And Spigot Cast Iron Vent Tee..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	293.73 31.18 10.23 61.39	136.52
22 13 16 00-0179 EA 8" Bell And Spigot Cast Iron Vent Tee..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	478.09 72.57 13.54 81.23	180.62
<b>22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees</b> (22 13 16 00-0030)		
22 13 16 00-0181 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Tee..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	126.01 7.68 5.20 31.22	69.38
22 13 16 00-0182 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Tee..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	138.74 8.69 5.70 34.18	75.98
22 13 16 00-0183 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Tee..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	179.83 10.71 7.46 44.77	99.57
<b>22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses</b> (22 13 16 00-0030)		
22 13 16 00-0185 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Cross..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.47 8.19 5.20 31.22	69.38
22 13 16 00-0186 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Cross..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.50 9.65 5.70 34.18	75.98
22 13 16 00-0187 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Cross..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	186.78 13.14 7.46 44.77	99.57
<b>22 13 16 00-0188 Bell And Spigot Cast Iron Reducers</b> (22 13 16 00-0030)		
22 13 16 00-0189 EA 3" x 2" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	70.93 4.35 2.93 17.55	39.07
22 13 16 00-0190 EA 4" x 2" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	90.31 4.55 3.87 23.19	51.52
22 13 16 00-0191 EA 4" x 3" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	94.75 5.91 3.89 23.36	51.95
22 13 16 00-0192 EA 6" x 2" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.94 8.59 4.42 26.52	58.92
22 13 16 00-0193 EA 6" x 3" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	117.14 9.65 4.48 26.87	59.71
22 13 16 00-0194 EA 6" x 4" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	120.55 10.21 4.57 27.41	60.96
22 13 16 00-0195 EA 8" x 2" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	148.05 18.85 4.71 28.26	62.82
22 13 16 00-0196 EA 8" x 3" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	171.04 19.05 5.83 34.98	77.78
22 13 16 00-0197 EA 8" x 4" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	175.53 19.56 5.98 35.90	79.77
22 13 16 00-0198 EA 8" x 6" Bell And Spigot Cast Iron Reducer..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	181.71 19.92 6.24 37.44	83.27

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0199	EA		10" x 4" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	221.57 28.50 7.01 42.04	93.45
22 13 16 00-0200	EA		10" x 6" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	233.43 30.18 7.36 44.16	98.15
22 13 16 00-0201	EA		10" x 8" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.62 32.90 7.68 46.08	102.44
22 13 16 00-0202	EA		12" x 4" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	299.37 46.54 8.32 49.92	111.03
22 13 16 00-0203	EA		12" x 6" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	337.03 49.77 9.74 58.45	129.90
22 13 16 00-0204	EA		12" x 8" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	368.29 51.25 11.09 66.56	147.96
22 13 16 00-0205	EA		12" x 10" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	407.71 53.27 12.78 76.66	170.44
22 13 16 00-0206	EA		15" x 6" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	506.19 87.73 12.78 76.66	170.44
22 13 16 00-0207	EA		15" x 8" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	539.80 92.53 13.77 82.63	183.72
22 13 16 00-0208	EA		15" x 10" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	563.33 95.50 14.52 87.14	193.69
22 13 16 00-0209	EA		15" x 12" Bell And Spigot Cast Iron Reducer <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	594.95 99.71 15.50 93.02	206.77
<b>22 13 16 00-0210</b>			<b>Bell And Spigot Cast Iron P-Traps</b> (22 13 16 00-0030)		
22 13 16 00-0211	EA		2" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.79 7.44 2.33 13.96	31.07
22 13 16 00-0212	EA		3" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.41 10.82 2.93 17.55	39.07
22 13 16 00-0213	EA		4" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.17 15.16 3.89 23.36	51.95
22 13 16 00-0214	EA		5" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	174.60 32.50 4.09 24.53	54.55
22 13 16 00-0215	EA		6" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	229.91 46.80 4.81 28.86	64.17
22 13 16 00-0216	EA		8" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	481.75 124.93 6.24 37.44	83.27
22 13 16 00-0217	EA		10" Bell And Spigot Cast Iron P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	539.23 134.97 7.68 46.08	102.44
<b>22 13 16 00-0218</b>			<b>Bell And Spigot Cast Iron Deep Seal P-Traps</b> (22 13 16 00-0030)		
22 13 16 00-0219	EA		2" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.86 10.26 2.33 13.96	31.07





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0220	EA		3" Bell And Spigot Cast Iron Deep Seal P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	105.28 16.37 2.93 17.55	39.07
22 13 16 00-0221	EA		4" Bell And Spigot Cast Iron Deep Seal P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.66 25.48 3.89 23.36	51.95
22 13 16 00-0222	EA		5" Bell And Spigot Cast Iron Deep Seal P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	230.85 48.82 4.57 27.41	60.96
22 13 16 00-0223	EA		6" Bell And Spigot Cast Iron Deep Seal P-Trap ..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	246.65 50.64 5.10 30.59	67.97
<b>22 13 16 00-0224 Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)</b>					
22 13 16 00-0225	EA		3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	177.38 5.70 34.18	75.00
22 13 16 00-0226	EA		4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	235.63 7.46 44.77	98.59
22 13 16 00-0227	EA		5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	297.63 8.00 48.02	105.89
22 13 16 00-0228	EA		6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	551.77 9.08 54.45	119.99
22 13 16 00-0229	EA		8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,685.81 10.79 64.76	142.38
22 13 16 00-0230	EA		8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,827.45 12.01 72.05	158.85
<b>22 13 16 00-0231 Bell And Spigot Cast Running Traps With Double Vent (22 13 16 00-0030)</b>					
22 13 16 00-0232	EA		3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	231.00 7.84 47.06	103.58
22 13 16 00-0233	EA		4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	309.73 9.93 59.55	130.73
22 13 16 00-0234	EA		6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	622.54 11.25 67.48	148.29
22 13 16 00-0235	EA		6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	725.73 13.60 81.60	179.50
22 13 16 00-0236	EA		8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,825.55 13.09 78.57	172.63
22 13 16 00-0237	EA		8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,010.80 15.50 93.02	204.98
22 13 16 00-0238	EA		10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,656.56 17.94 107.65	236.53
22 13 16 00-0239	EA		12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,649.42 20.71 124.29	273.48
22 13 16 00-0240	EA		15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,995.08 23.97 143.83	316.30
<b>22 13 16 00-0241 Bell And Spigot Cast Iron Scission Joint Fittings (22 13 16 00-0030)</b>					
22 13 16 00-0242	EA		2" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	122.27 2.32 13.93	
22 13 16 00-0243	EA		3" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	164.36 2.61 15.65	
22 13 16 00-0244	EA		4" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	193.28 3.49 20.96	
22 13 16 00-0245	EA		5" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	236.83 4.06 24.35	
22 13 16 00-0246	EA		6" Bell And Spigot Cast Iron Scission Joint Fitting ..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	287.43 4.90 29.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0247 EA 8" Bell And Spigot Cast Iron Scission Joint Fitting.....	522.18	
For Above Ground Cast Iron Pipe Installation, Add	6.20	
For Work In Restricted Working Space, Add	37.18	
<b>22 13 16 00-0248 Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019)</b>		
Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0249 EA 2", Cut And Prepare Existing In-Place Cast Iron Pipe.....	12.93	
For Above Ground Cast Iron Pipe Installation, Add	0.65	
For Work In Restricted Working Space, Add	3.88	
22 13 16 00-0250 EA 3", Cut And Prepare Existing In-Place Cast Iron Pipe.....	14.11	
For Above Ground Cast Iron Pipe Installation, Add	0.71	
For Work In Restricted Working Space, Add	4.23	
22 13 16 00-0251 EA 4", Cut And Prepare Existing In-Place Cast Iron Pipe.....	17.64	
For Above Ground Cast Iron Pipe Installation, Add	0.88	
For Work In Restricted Working Space, Add	5.29	
22 13 16 00-0252 EA 6", Cut And Prepare Existing In-Place Cast Iron Pipe.....	21.17	
For Above Ground Cast Iron Pipe Installation, Add	1.06	
For Work In Restricted Working Space, Add	6.35	
22 13 16 00-0253 EA 8", Cut And Prepare Existing In-Place Cast Iron Pipe.....	28.22	
For Above Ground Cast Iron Pipe Installation, Add	1.41	
For Work In Restricted Working Space, Add	8.47	
22 13 16 00-0254 EA 10", Cut And Prepare Existing In-Place Cast Iron Pipe.....	32.92	
For Above Ground Cast Iron Pipe Installation, Add	1.65	
For Work In Restricted Working Space, Add	9.88	
22 13 16 00-0255 EA 12", Cut And Prepare Existing In-Place Cast Iron Pipe.....	38.80	
For Above Ground Cast Iron Pipe Installation, Add	1.94	
For Work In Restricted Working Space, Add	11.64	
22 13 16 00-0256 EA 15", Cut And Prepare Existing In-Place Cast Iron Pipe.....	44.69	
For Above Ground Cast Iron Pipe Installation, Add	2.23	
For Work In Restricted Working Space, Add	13.41	
<b>22 13 16 00-0257 Joint Material (22 13 16 00-0019)</b>		
Note: Labor costs are included in the installation costs for fittings.		
22 13 16 00-0258 LB Lead (1 LB/Diameter Inch) Joint Material.....	4.28	
22 13 16 00-0259 LB Oakum (1/8 LB/Diameter Inch) Joint Material.....	7.36	
22 13 16 00-0260 EA 2" Dual Tite Rubber Gasket.....	0.72	
22 13 16 00-0261 EA 3" Dual Tite Rubber Gasket.....	0.99	
22 13 16 00-0262 EA 4" Dual Tite Rubber Gasket.....	1.23	
22 13 16 00-0263 EA 6" Dual Tite Rubber Gasket.....	2.04	
22 13 16 00-0264 EA 8" Dual Tite Rubber Gasket.....	4.50	
22 13 16 00-0265 EA 10" Dual Tite Rubber Gasket.....	6.90	
22 13 16 00-0266 EA 12" Dual Tite Rubber Gasket.....	8.79	
22 13 16 00-0267 EA 15" Dual Tite Rubber Gasket.....	10.44	
<b>22 13 16 00-0268 No Hub Cast Iron Soil Pipe And Fittings (22 13 16)</b>		
Note: Service Weight. Excludes hangers.		
<b>22 13 16 00-0269 No Hub Cast Iron Pipe (22 13 16 00-0268)</b>		
Note: Excludes couplings.		
22 13 16 00-0270 LF 1-1/2" No Hub Cast Iron Pipe.....	13.26	6.49
For Below Ground Installation, Add	0.49	
For Work In Restricted Working Space, Add	2.93	
22 13 16 00-0271 LF 2" No Hub Cast Iron Pipe.....	14.13	6.92
For Below Ground Installation, Add	0.52	
For Work In Restricted Working Space, Add	3.14	
22 13 16 00-0272 LF 3" No Hub Cast Iron Pipe.....	20.24	10.06
For Below Ground Installation, Add	0.76	
For Work In Restricted Working Space, Add	4.54	
22 13 16 00-0273 LF 4" No Hub Cast Iron Pipe.....	26.28	13.10
For Below Ground Installation, Add	0.98	
For Work In Restricted Working Space, Add	5.90	
22 13 16 00-0274 LF 5" No Hub Cast Iron Pipe.....	31.51	14.88
For Below Ground Installation, Add	1.12	
For Work In Restricted Working Space, Add	6.69	
22 13 16 00-0275 LF 6" No Hub Cast Iron Pipe.....	35.69	16.24
For Below Ground Installation, Add	1.22	
For Work In Restricted Working Space, Add	7.29	
22 13 16 00-0276 LF 8" No Hub Cast Iron Pipe.....	53.33	23.46
For Below Ground Installation, Add	1.76	
For Work In Restricted Working Space, Add	10.53	
22 13 16 00-0277 LF 10" No Hub Cast Iron Pipe.....	70.14	26.66
For Below Ground Installation, Add	2.00	
For Work In Restricted Working Space, Add	11.98	
<b>22 13 16 00-0278 No Hub Cast Iron Fittings (22 13 16 00-0268)</b>		
<b>22 13 16 00-0279 No Hub Cast Iron Long Sweeps (22 13 16 00-0278)</b>		
22 13 16 00-0280 EA 1-1/2" No Hub Cast Iron Long Sweep.....	54.78	30.73
For Below Ground Installation, Add	2.30	
For Work In Restricted Working Space, Add	13.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0281 EA 2" No Hub Cast Iron Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	55.00 2.30 13.82	30.73
22 13 16 00-0282 EA 3" No Hub Cast Iron Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.00 2.64 15.84	35.18
22 13 16 00-0283 EA 4" No Hub Cast Iron Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	86.53 3.49 20.95	46.53
22 13 16 00-0284 EA 5" No Hub Cast Iron Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	104.35 3.68 22.07	49.10
22 13 16 00-0285 EA 6" No Hub Cast Iron Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	124.09 4.39 26.35	58.54
22 13 16 00-0286 EA 8" No Hub Cast Iron Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	213.25 5.71 34.23	76.08
<b>22 13 16 00-0287 No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)</b>		
22 13 16 00-0288 EA 3" x 2" No Hub Cast Iron Reducing Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.24 2.64 15.84	35.18
22 13 16 00-0289 EA 4" x 3" No Hub Cast Iron Reducing Long Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	104.13 3.49 20.95	46.53
<b>22 13 16 00-0290 No Hub Cast Iron Short Sweeps (22 13 16 00-0278)</b>		
22 13 16 00-0291 EA 2" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	53.14 2.30 13.82	30.73
22 13 16 00-0292 EA 3" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	62.53 2.64 15.84	35.18
22 13 16 00-0293 EA 4" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.76 3.49 20.95	46.53
22 13 16 00-0294 EA 5" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	104.64 3.68 22.07	49.10
22 13 16 00-0295 EA 6" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.59 4.39 26.35	58.54
22 13 16 00-0296 EA 8" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	199.63 5.71 34.23	76.08
22 13 16 00-0297 EA 10" No Hub Cast Iron Short Sweep ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	310.18 7.99 47.93	106.53
<b>22 13 16 00-0298 No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)</b>		
22 13 16 00-0299 EA 1-1/2" No Hub Cast Iron 1/4 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	49.67 2.21 13.25	29.44
22 13 16 00-0300 EA 2" No Hub Cast Iron 1/4 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	51.86 2.30 13.82	30.73
22 13 16 00-0301 EA 3" No Hub Cast Iron 1/4 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.46 2.64 15.84	35.18
22 13 16 00-0302 EA 4" No Hub Cast Iron 1/4 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.18 3.49 20.95	46.53
22 13 16 00-0303 EA 5" No Hub Cast Iron 1/4 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	98.95 3.68 22.07	49.10
22 13 16 00-0304 EA 6" No Hub Cast Iron 1/4 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	115.94 4.39 26.35	58.54
22 13 16 00-0305 EA 8" No Hub Cast Iron 1/4 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	189.02 5.71 34.23	76.08
<b>22 13 16 00-0306 No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)</b>		
22 13 16 00-0307 EA 1-1/2" No Hub Cast Iron 1/8 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.49 2.21 13.25	29.44
22 13 16 00-0308 EA 2" No Hub Cast Iron 1/8 Bend ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.46 2.30 13.82	30.73



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0309 EA 3" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.08 2.64 15.84	35.18
22 13 16 00-0310 EA 4" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.09 3.49 20.95	46.53
22 13 16 00-0311 EA 6" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	121.95 5.15 30.92	68.72
22 13 16 00-0312 EA 8" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	185.54 6.76 40.59	90.26
22 13 16 00-0313 EA 10" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	261.28 8.33 49.95	111.04
<b>22 13 16 00-0314 No Hub Cast Iron Wyes</b> (22 13 16 00-0278)		
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	77.05 3.47 20.81	46.32
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	101.87 4.71 28.23	62.77
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	113.68 5.15 30.92	68.72
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	152.51 6.76 40.59	90.26
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	180.55 7.17 42.99	95.58
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	214.32 8.51 51.05	113.48
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	331.94 11.41 68.46	152.26
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	478.17 12.68 76.07	169.14
<b>22 13 16 00-0323 No Hub Cast Iron Reducing Wyes</b> (22 13 16 00-0278)		
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	98.19 4.49 26.95	59.96
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	111.44 5.15 30.92	68.72
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	124.63 5.70 34.18	75.98
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.93 6.33 37.97	84.41
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	168.62 7.24 43.45	96.56
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	178.10 7.56 45.38	100.93
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	206.19 8.84 53.04	117.95
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	238.88 8.97 53.85	119.71
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	270.57 9.86 59.17	131.60
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	365.52 10.51 63.06	140.18
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	387.52 11.25 67.50	150.07
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	435.39 12.01 72.07	160.25
<b>22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends</b> (22 13 16 00-0278)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0337 EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.52 4.04 24.23	53.90
22 13 16 00-0338 EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	102.19 4.71 28.23	62.77
22 13 16 00-0339 EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	116.04 5.15 30.92	68.72
22 13 16 00-0340 EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.19 6.76 40.59	90.26
22 13 16 00-0341 EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	268.29 10.41 62.44	138.85
22 13 16 00-0342 EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	418.03 13.35 80.13	178.14
22 13 16 00-0343 EA 10" No Hub Cast Iron Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	496.19 16.14 96.86	215.37
<b>22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)</b>		
22 13 16 00-0345 EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	102.57 4.71 28.23	62.77
22 13 16 00-0346 EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	112.62 5.15 30.92	68.72
22 13 16 00-0347 EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	126.99 5.70 34.18	75.98
22 13 16 00-0348 EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	143.22 6.33 37.97	84.41
22 13 16 00-0349 EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	175.49 7.24 43.45	96.56
22 13 16 00-0350 EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	190.10 7.56 45.38	100.93
22 13 16 00-0351 EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	216.71 8.84 53.04	117.95
22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	258.53 8.97 53.85	119.71
22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	315.49 9.86 59.17	131.60
<b>22 13 16 00-0354 No Hub Cast Iron Double Wyes (22 13 16 00-0278)</b>		
22 13 16 00-0355 EA 2" No Hub Cast Iron Double Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.83 5.85 35.10	78.03
22 13 16 00-0356 EA 3" No Hub Cast Iron Double Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.36 7.12 42.72	95.02
22 13 16 00-0357 EA 4" No Hub Cast Iron Double Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	196.81 7.79 46.72	103.90
22 13 16 00-0358 EA 6" No Hub Cast Iron Double Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	285.17 10.72 64.31	143.04
22 13 16 00-0359 EA 8" No Hub Cast Iron Double Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	482.17 14.52 87.14	193.69
<b>22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)</b>		
22 13 16 00-0361 EA 3" x 2" No Hub Cast Iron Double Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	146.73 6.48 38.88	86.47
22 13 16 00-0362 EA 4" x 2" No Hub Cast Iron Double Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	172.28 7.46 44.78	99.57
22 13 16 00-0363 EA 4" x 3" No Hub Cast Iron Double Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	188.68 8.14 48.82	108.55
22 13 16 00-0364 EA 6" x 4" No Hub Cast Iron Double Wye ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	246.48 9.45 56.72	126.11



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 13 16 00-0365</b> No Hub Cast Iron Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0366 EA 2" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	159.53	93.73
For Below Ground Installation, Add	7.03	
For Work In Restricted Working Space, Add	42.17	
22 13 16 00-0367 EA 3" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	185.11	103.90
For Below Ground Installation, Add	7.79	
For Work In Restricted Working Space, Add	46.72	
22 13 16 00-0368 EA 4" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	262.28	137.56
For Below Ground Installation, Add	10.31	
For Work In Restricted Working Space, Add	61.85	
22 13 16 00-0369 EA 6" No Hub Cast Iron Double Combination Wye And 1/8 Bend.....	383.85	212.34
For Below Ground Installation, Add	15.92	
For Work In Restricted Working Space, Add	95.49	
<b>22 13 16 00-0370</b> No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0371 EA 3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	142.93	80.63
For Below Ground Installation, Add	6.05	
For Work In Restricted Working Space, Add	36.28	
22 13 16 00-0372 EA 4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	165.92	93.73
For Below Ground Installation, Add	7.03	
For Work In Restricted Working Space, Add	42.17	
22 13 16 00-0373 EA 4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	190.39	102.38
For Below Ground Installation, Add	7.68	
For Work In Restricted Working Space, Add	46.06	
<b>22 13 16 00-0374</b> No Hub Cast Iron Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0375 EA 1-1/2" No Hub Cast Iron Sanitary Tee.....	75.35	45.35
For Below Ground Installation, Add	3.40	
For Work In Restricted Working Space, Add	20.42	
22 13 16 00-0376 EA 2" No Hub Cast Iron Sanitary Tee.....	102.26	62.77
For Below Ground Installation, Add	4.71	
For Work In Restricted Working Space, Add	28.23	
22 13 16 00-0377 EA 3" No Hub Cast Iron Sanitary Tee.....	112.81	68.72
For Below Ground Installation, Add	5.15	
For Work In Restricted Working Space, Add	30.92	
22 13 16 00-0378 EA 4" No Hub Cast Iron Sanitary Tee.....	150.53	90.26
For Below Ground Installation, Add	6.76	
For Work In Restricted Working Space, Add	40.59	
22 13 16 00-0379 EA 5" No Hub Cast Iron Sanitary Tee.....	180.96	95.58
For Below Ground Installation, Add	7.17	
For Work In Restricted Working Space, Add	42.99	
22 13 16 00-0380 EA 6" No Hub Cast Iron Sanitary Tee.....	214.03	113.48
For Below Ground Installation, Add	8.51	
For Work In Restricted Working Space, Add	51.05	
22 13 16 00-0381 EA 8" No Hub Cast Iron Sanitary Tee.....	356.32	152.26
For Below Ground Installation, Add	11.41	
For Work In Restricted Working Space, Add	68.46	
22 13 16 00-0382 EA 2" x 1-1/2" No Hub Cast Iron Sanitary Tee.....	84.90	51.20
For Below Ground Installation, Add	3.84	
For Work In Restricted Working Space, Add	23.03	
22 13 16 00-0383 EA 3" x 1-1/2" No Hub Cast Iron Sanitary Tee.....	98.86	59.96
For Below Ground Installation, Add	4.49	
For Work In Restricted Working Space, Add	26.95	
<b>22 13 16 00-0384</b> No Hub Cast Iron Reducing Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0385 EA 3" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	103.15	62.77
For Below Ground Installation, Add	4.71	
For Work In Restricted Working Space, Add	28.23	
22 13 16 00-0386 EA 3" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	112.48	62.77
For Below Ground Installation, Add	4.71	
For Work In Restricted Working Space, Add	28.23	
22 13 16 00-0387 EA 4" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	138.93	84.95
For Below Ground Installation, Add	6.37	
For Work In Restricted Working Space, Add	38.20	
22 13 16 00-0388 EA 4" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	141.19	84.95
For Below Ground Installation, Add	6.37	
For Work In Restricted Working Space, Add	38.20	
22 13 16 00-0389 EA 5" x 2" No Hub Cast Iron Reducing Sanitary Tee.....	163.06	90.82
For Below Ground Installation, Add	6.81	
For Work In Restricted Working Space, Add	40.84	
22 13 16 00-0390 EA 5" x 3" No Hub Cast Iron Reducing Sanitary Tee.....	166.22	90.82
For Below Ground Installation, Add	6.81	
For Work In Restricted Working Space, Add	40.84	
22 13 16 00-0391 EA 5" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	166.61	90.82
For Below Ground Installation, Add	6.81	
For Work In Restricted Working Space, Add	40.84	
22 13 16 00-0392 EA 6" x 4" No Hub Cast Iron Reducing Sanitary Tee.....	173.18	94.62
For Below Ground Installation, Add	7.09	
For Work In Restricted Working Space, Add	42.54	



<b>Plumbing</b>	<b>22</b>	<b>22</b>
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0393 EA 8" x 6" No Hub Cast Iron Reducing Sanitary Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	287.93 9.62 57.74	128.40
<b>22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees (22 13 16 00-0278)</b>		
22 13 16 00-0395 EA 2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	54.22 2.30 13.82	30.73
22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	62.60 2.64 15.84	35.18
22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.85 3.49 20.95	46.53
<b>22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)</b>		
22 13 16 00-0399 EA 2" No Hub Cast Iron Cleanout Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	52.80 2.30 13.82	30.73
22 13 16 00-0400 EA 3" No Hub Cast Iron Cleanout Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.64 2.64 15.84	35.18
22 13 16 00-0401 EA 4" No Hub Cast Iron Cleanout Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.89 3.49 20.95	46.53
22 13 16 00-0402 EA 6" No Hub Cast Iron Cleanout Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.27 5.15 30.92	68.72
<b>22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)</b>		
22 13 16 00-0404 EA 4" No Hub Cast Iron Single Two-Way Cleanout Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	189.75 6.76 40.59	90.26
22 13 16 00-0405 EA 4" No Hub Cast Iron Double Two-Way Cleanout Tee ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	256.20 10.28 61.69	137.12
<b>22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)</b>		
22 13 16 00-0407 EA 2" No Hub Cast Iron Cleanout Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.92 2.30 13.82	30.73
22 13 16 00-0408 EA 3" No Hub Cast Iron Cleanout Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.30 2.64 15.84	35.18
22 13 16 00-0409 EA 4" No Hub Cast Iron Cleanout Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.38 3.49 20.95	46.53
22 13 16 00-0410 EA 6" No Hub Cast Iron Cleanout Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.06 5.15 30.92	68.72
22 13 16 00-0411 EA 8" No Hub Cast Iron Cleanout Plug ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	157.26 6.76 40.59	90.26
<b>22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)</b>		
22 13 16 00-0413 EA 1-1/2" No Hub Cast Iron Sanitary Cross ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	100.78 4.55 27.28	60.60
22 13 16 00-0414 EA 2" No Hub Cast Iron Sanitary Cross ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	106.41 4.71 28.23	62.77
22 13 16 00-0415 EA 3" No Hub Cast Iron Sanitary Cross ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	122.43 5.15 30.92	68.72
22 13 16 00-0416 EA 4" No Hub Cast Iron Sanitary Cross ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	171.67 6.76 40.59	90.26
<b>22 13 16 00-0417 No Hub Cast Iron Reducing Sanitary Crosses (22 13 16 00-0278)</b>		
22 13 16 00-0418 EA 3" x 2" No Hub Cast Iron Sanitary Cross ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	138.30 6.04 36.27	80.63
22 13 16 00-0419 EA 4" x 2" No Hub Cast Iron Sanitary Cross ..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.05 6.22 37.34	83.00

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0420	EA		4" x 3" No Hub Cast Iron Sanitary Cross <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.57 6.49 38.97	86.69
<b>22 13 16 00-0421 No Hub Cast Iron Reducers (22 13 16 00-0278)</b>					
22 13 16 00-0422	EA		3" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	98.23 4.71 28.23	62.77
22 13 16 00-0423	EA		4" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	133.62 6.37 38.20	84.95
22 13 16 00-0424	EA		4" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	133.82 6.37 38.20	84.95
22 13 16 00-0425	EA		5" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.36 6.81 40.84	90.82
22 13 16 00-0426	EA		5" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	146.64 6.81 40.84	90.82
22 13 16 00-0427	EA		5" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	147.15 6.81 40.84	90.82
22 13 16 00-0428	EA		6" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	167.20 7.56 45.38	100.93
22 13 16 00-0429	EA		6" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	167.39 7.56 45.38	100.93
22 13 16 00-0430	EA		6" x 5" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	167.97 7.56 45.38	100.93
22 13 16 00-0431	EA		8" x 2" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	234.24 10.65 63.90	142.08
22 13 16 00-0432	EA		8" x 3" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	235.71 10.65 63.90	142.08
22 13 16 00-0433	EA		8" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	238.08 10.65 63.90	142.08
22 13 16 00-0434	EA		8" x 5" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	240.54 10.65 63.90	142.08
22 13 16 00-0435	EA		8" x 6" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	240.83 10.65 63.90	142.08
22 13 16 00-0436	EA		10" x 4" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	270.27 11.23 67.40	149.87
22 13 16 00-0437	EA		10" x 6" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	285.76 11.73 70.39	156.45
22 13 16 00-0438	EA		10" x 8" No Hub Cast Iron Reducer <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	315.84 12.73 76.38	169.83
<b>22 13 16 00-0439 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)</b>					
22 13 16 00-0440	EA		1-1/2" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.53 2.21 13.25	29.44
22 13 16 00-0441	EA		2" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.32 2.30 13.82	30.73
22 13 16 00-0442	EA		3" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	56.82 2.64 15.84	35.18
22 13 16 00-0443	EA		4" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.22 3.49 20.95	46.53
22 13 16 00-0444	EA		5" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	84.90 3.74 22.46	50.56
22 13 16 00-0445	EA		6" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	97.96 4.39 26.35	58.54
22 13 16 00-0446	EA		8" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	146.05 5.71 34.23	76.08
22 13 16 00-0447	EA		10" No Hub Cast Iron Blind Plug <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	168.82 6.14 36.87	81.97





<b>Plumbing</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>
<b>Facility Sanitary Sewerage</b>	<b>22 13</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 13 16 00-0448 No Hub Cast Iron P-Traps</b> (22 13 16 00-0278)		
22 13 16 00-0449 EA 2" No Hub Cast Iron P-Trap.....	54.42	30.73
For Below Ground Installation, Add	2.30	
For Work In Restricted Working Space, Add	13.82	
22 13 16 00-0450 EA 3" No Hub Cast Iron P-Trap.....	71.86	35.18
For Below Ground Installation, Add	2.64	
For Work In Restricted Working Space, Add	15.84	
22 13 16 00-0451 EA 4" No Hub Cast Iron P-Trap.....	102.95	46.53
For Below Ground Installation, Add	3.49	
For Work In Restricted Working Space, Add	20.95	
22 13 16 00-0452 EA 5" No Hub Cast Iron P-Trap.....	149.97	49.50
For Below Ground Installation, Add	3.71	
For Work In Restricted Working Space, Add	22.25	
22 13 16 00-0453 EA 6" No Hub Cast Iron P-Trap.....	164.37	59.02
For Below Ground Installation, Add	4.42	
For Work In Restricted Working Space, Add	26.55	
<b>22 13 16 00-0454 No Hub Cast Iron Deep Seal P-Traps</b> (22 13 16 00-0278)		
22 13 16 00-0455 EA 2" No Hub Cast Iron Deep Seal P-Trap.....	78.46	39.07
For Below Ground Installation, Add	2.93	
For Work In Restricted Working Space, Add	17.55	
22 13 16 00-0456 EA 3" No Hub Cast Iron Deep Seal P-Trap.....	109.71	51.95
For Below Ground Installation, Add	3.89	
For Work In Restricted Working Space, Add	23.36	
22 13 16 00-0457 EA 4" No Hub Cast Iron Deep Seal P-Trap.....	153.93	68.61
For Below Ground Installation, Add	5.14	
For Work In Restricted Working Space, Add	30.84	
<b>22 13 16 00-0458 No Hub Cast Iron Closet Flanges</b> (22 13 16 00-0278)		
22 13 16 00-0459 EA 4" No Hub Cast Iron Closet Flange.....	83.08	46.53
For Below Ground Installation, Add	3.49	
For Work In Restricted Working Space, Add	20.95	
22 13 16 00-0460 EA 4" x 2-1/2" No Hub Cast Iron Offset Closet Flange.....	85.83	46.53
For Below Ground Installation, Add	3.49	
For Work In Restricted Working Space, Add	20.95	
<b>22 13 16 00-0461 No Hub Cast Iron Closet Bends</b> (22 13 16 00-0278)		
22 13 16 00-0462 EA 4" x 16" No Hub Cast Iron Closet Bend.....	121.73	46.53
For Below Ground Installation, Add	3.49	
For Work In Restricted Working Space, Add	20.95	
<b>22 13 16 00-0463 No Hub Cast Iron Threaded Adapter</b> (22 13 16 00-0278)		
22 13 16 00-0464 EA 1-1/4" No Hub Cast Iron Threaded Adapter.....	65.69	39.07
For Below Ground Installation, Add	2.93	
For Work In Restricted Working Space, Add	17.55	
22 13 16 00-0465 EA 1-1/2" No Hub Cast Iron Threaded Adapter.....	67.90	39.07
For Below Ground Installation, Add	2.93	
For Work In Restricted Working Space, Add	17.55	
<b>22 13 16 00-0466 No Hub Couplings</b> (22 13 16 00-0278)		
Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Feroco NH).		
22 13 16 00-0467 EA 1-1/2" No Hub Coupling.....	5.40	
For Medium Duty (Feroco MD-2000), Add	0.70	
For Heavy Duty (Feroco HD-4000), Add	1.46	
22 13 16 00-0468 EA 2" No Hub Coupling.....	5.40	
For Medium Duty (Feroco MD-2000), Add	0.70	
For Heavy Duty (Feroco HD-4000), Add	1.46	
22 13 16 00-0469 EA 3" No Hub Coupling.....	6.42	
For Medium Duty (Feroco MD-2000), Add	0.83	
For Heavy Duty (Feroco HD-4000), Add	1.73	
22 13 16 00-0470 EA 4" No Hub Coupling.....	7.62	
For Medium Duty (Feroco MD-2000), Add	0.99	
For Heavy Duty (Feroco HD-4000), Add	2.06	
22 13 16 00-0471 EA 5" No Hub Coupling.....	17.61	
For Medium Duty (Feroco MD-2000), Add	2.29	
For Heavy Duty (Feroco HD-4000), Add	4.75	
22 13 16 00-0472 EA 6" No Hub Coupling.....	19.35	
For Medium Duty (Feroco MD-2000), Add	2.52	
For Heavy Duty (Feroco HD-4000), Add	5.22	
22 13 16 00-0473 EA 8" No Hub Coupling.....	36.45	
For Medium Duty (Feroco MD-2000), Add	4.74	
For Heavy Duty (Feroco HD-4000), Add	9.84	
22 13 16 00-0474 EA 10" No Hub Coupling.....	50.22	
For Medium Duty (Feroco MD-2000), Add	6.53	
For Heavy Duty (Feroco HD-4000), Add	13.56	
22 13 16 00-0475 EA 2" x 1-1/2" No Hub Reducing Coupling.....	6.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0476 EA 3" x 2" No Hub Reducing Coupling .....	9.95	
22 13 16 00-0477 EA 4" x 2" No Hub Reducing Coupling .....	13.88	
22 13 16 00-0478 EA 4" x 3" No Hub Reducing Coupling .....	11.82	
<b>22 13 16 00-0479 Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts</b> (22 13 16 00-0278)		
Note: For underground connections. See CSI section 22 13 16 00-0861 for additional FERNCO couplings.		
22 13 16 00-0480 EA 1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	15.88	
22 13 16 00-0481 EA 2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	16.40	
22 13 16 00-0482 EA 3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	17.22	
22 13 16 00-0483 EA 4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	20.09	
22 13 16 00-0484 EA 5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	37.92	
22 13 16 00-0485 EA 6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	52.06	
22 13 16 00-0486 EA 8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	91.20	
22 13 16 00-0487 EA 10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts.....	139.37	
<b>22 13 16 00-0488 Cut And Prepare Existing Pipe In-Place</b> (22 13 16 00-0268)		
Note: For use when connecting pipe to an existing in-place system.		
22 13 16 00-0489 EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub .....	10.58	
<i>For Work In Restricted Working Space, Add</i>		
	3.17	
22 13 16 00-0490 EA Cut And Prepare 2" Cast Iron Pipe, No Hub .....	12.93	
<i>For Work In Restricted Working Space, Add</i>		
	3.88	
22 13 16 00-0491 EA Cut And Prepare 3" Cast Iron Pipe, No Hub .....	14.11	
<i>For Work In Restricted Working Space, Add</i>		
	4.23	
22 13 16 00-0492 EA Cut And Prepare 4" Cast Iron Pipe, No Hub .....	17.64	
<i>For Work In Restricted Working Space, Add</i>		
	5.29	
22 13 16 00-0493 EA Cut And Prepare 6" Cast Iron Pipe, No Hub .....	21.17	
<i>For Work In Restricted Working Space, Add</i>		
	6.35	
22 13 16 00-0494 EA Cut And Prepare 8" Cast Iron Pipe, No Hub .....	28.22	
<i>For Work In Restricted Working Space, Add</i>		
	8.47	
22 13 16 00-0495 EA Cut And Prepare 10" Cast Iron Pipe, No Hub .....	32.92	
<i>For Work In Restricted Working Space, Add</i>		
	9.88	
<b>22 13 16 00-0496 Copper Drain-Waste-Vent (DWV) Pipe</b> (22 13 16)		
See CSI section 22 11 16 00-0413 for copper and brass fittings.		
22 13 16 00-0497 LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe .....	12.14	5.09
22 13 16 00-0498 LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe .....	14.18	5.68
22 13 16 00-0499 LF 2" Hard Drawn DWV Copper Tube/Pipe .....	18.01	7.01
22 13 16 00-0500 LF 3" Hard Drawn DWV Copper Tube/Pipe .....	42.20	9.71
22 13 16 00-0501 LF 4" Hard Drawn DWV Copper Tube/Pipe .....	54.83	10.95
22 13 16 00-0502 LF 5" Hard Drawn DWV Copper Tube/Pipe .....	93.72	12.57
22 13 16 00-0503 LF 6" Hard Drawn DWV Copper Tube/Pipe .....	136.10	19.49
<b>22 13 16 00-0504 Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings</b> (22 13 16)		
Note: Aboveground installation.		
<b>22 13 16 00-0505 Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies</b> (22 13 16 00-0504)		
Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0506 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly .....	22.06	4.54
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	6.23	
22 13 16 00-0507 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	24.45	5.41
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	6.89	
22 13 16 00-0508 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	31.21	7.79
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	8.56	
22 13 16 00-0509 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	35.06	8.44
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	9.51	
22 13 16 00-0510 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	50.25	10.82
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	12.65	
22 13 16 00-0511 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	66.64	14.39
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	16.04	
22 13 16 00-0512 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly.....	90.25	19.27
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>		
	20.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0513			Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0504)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0514			Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) <small>(22 13 16 00-0513)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0515	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... 7.31 <i>For Work In Restricted Working Space, Add</i> 2.03	4.54	
22 13 16 00-0516	LF		2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... 8.83 <i>For Work In Restricted Working Space, Add</i> 2.43	5.41	
22 13 16 00-0517	LF		3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... 13.09 <i>For Work In Restricted Working Space, Add</i> 3.49	7.79	
22 13 16 00-0518	LF		4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... 14.66 <i>For Work In Restricted Working Space, Add</i> 3.79	8.44	
22 13 16 00-0519	LF		6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... 18.18 <i>For Work In Restricted Working Space, Add</i> 4.37	9.73	
22 13 16 00-0520	LF		8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... 25.64 <i>For Work In Restricted Working Space, Add</i> 5.84	12.94	
22 13 16 00-0521	LF		10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe..... 35.42 <i>For Work In Restricted Working Space, Add</i> 7.78	17.30	
22 13 16 00-0522			Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) <small>(22 13 16 00-0513)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0523	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe ..... 7.19 <i>For Work In Restricted Working Space, Add</i> 2.03	4.54	
22 13 16 00-0524	LF		2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe ..... 8.70 <i>For Work In Restricted Working Space, Add</i> 2.43	5.41	
22 13 16 00-0525	LF		3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe ..... 12.85 <i>For Work In Restricted Working Space, Add</i> 3.49	7.79	
22 13 16 00-0526	LF		4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe ..... 14.36 <i>For Work In Restricted Working Space, Add</i> 3.79	8.44	
22 13 16 00-0527	LF		6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe ..... 17.60 <i>For Work In Restricted Working Space, Add</i> 4.37	9.73	
22 13 16 00-0528	LF		8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe ..... 24.19 <i>For Work In Restricted Working Space, Add</i> 5.84	12.94	
22 13 16 00-0529	LF		10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe ..... 33.84 <i>For Work In Restricted Working Space, Add</i> 7.78	17.30	
22 13 16 00-0530			Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) <small>(22 13 16 00-0504)</small>		
22 13 16 00-0531			Polyvinyl Chloride (PVC) DWV 1/4 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0532	EA		1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... 28.24 <i>For Work In Restricted Working Space, Add</i> 8.12	18.07	
22 13 16 00-0533	EA		2" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... 36.13 <i>For Work In Restricted Working Space, Add</i> 10.39	23.06	
22 13 16 00-0534	EA		3" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... 51.19 <i>For Work In Restricted Working Space, Add</i> 13.96	30.95	
22 13 16 00-0535	EA		4" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... 63.99 <i>For Work In Restricted Working Space, Add</i> 16.23	36.04	
22 13 16 00-0536	EA		6" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... 130.49 <i>For Work In Restricted Working Space, Add</i> 21.11	46.86	
22 13 16 00-0537	EA		8" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... 197.71 <i>For Work In Restricted Working Space, Add</i> 28.41	63.10	
22 13 16 00-0538	EA		10" Polyvinyl Chloride (PVC) DWV 1/4 Bends..... 262.08 <i>For Work In Restricted Working Space, Add</i> 37.88	84.09	
22 13 16 00-0539			Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0540	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... 31.56 <i>For Work In Restricted Working Space, Add</i> 8.12	18.07	
22 13 16 00-0541	EA		2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... 38.04 <i>For Work In Restricted Working Space, Add</i> 10.39	23.06	
22 13 16 00-0542	EA		3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... 56.10 <i>For Work In Restricted Working Space, Add</i> 13.96	30.95	
22 13 16 00-0543	EA		4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... 72.99 <i>For Work In Restricted Working Space, Add</i> 16.23	36.04	
22 13 16 00-0544	EA		6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... 113.11 <i>For Work In Restricted Working Space, Add</i> 21.11	46.86	
22 13 16 00-0545	EA		8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... 174.87 <i>For Work In Restricted Working Space, Add</i> 28.41	63.10	
22 13 16 00-0546	EA		10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends..... 261.67 <i>For Work In Restricted Working Space, Add</i> 37.88	84.09	
22 13 16 00-0547			Polyvinyl Chloride (PVC) DWV 1/8 Bends <small>(22 13 16 00-0530)</small>		
22 13 16 00-0548	EA		1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... 28.51 <i>For Work In Restricted Working Space, Add</i> 8.12	18.07	
22 13 16 00-0549	EA		2" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... 36.11 <i>For Work In Restricted Working Space, Add</i> 10.39	23.06	
22 13 16 00-0550	EA		3" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... 50.78 <i>For Work In Restricted Working Space, Add</i> 13.96	30.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0551	EA		4" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	61.99 16.23	36.04
22 13 16 00-0552	EA		6" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	125.40 21.11	46.86
22 13 16 00-0553	EA		8" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	185.88 28.41	63.10
22 13 16 00-0554	EA		10" Polyvinyl Chloride (PVC) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	227.28 37.88	84.09
<b>22 13 16 00-0555</b>			<b>Polyvinyl Chloride (PVC) DWV Sanitary Tees</b> (22 13 16 00-0530)		
22 13 16 00-0556	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	42.69 12.17	27.06
22 13 16 00-0557	EA		2" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	54.97 15.59	34.63
22 13 16 00-0558	EA		3" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	77.85 20.94	46.53
22 13 16 00-0559	EA		4" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	96.51 24.35	54.11
22 13 16 00-0560	EA		6" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	194.72 31.66	70.24
22 13 16 00-0561	EA		8" Polyvinyl Chloride (PVC) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	257.37 42.62	94.59
<b>22 13 16 00-0562</b>			<b>Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees</b> (22 13 16 00-0530)		
22 13 16 00-0563	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	48.19 13.31	29.55
22 13 16 00-0564	EA		2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	53.43 14.45	32.03
22 13 16 00-0565	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	51.18 14.45	32.03
22 13 16 00-0566	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	66.23 18.02	40.04
22 13 16 00-0567	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	69.71 19.16	42.53
22 13 16 00-0568	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	75.91 20.29	45.02
22 13 16 00-0569	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	92.22 21.43	47.62
22 13 16 00-0570	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	105.65 23.22	51.52
22 13 16 00-0571	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	183.68 29.22	64.82
22 13 16 00-0572	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	422.05 36.53	81.06
22 13 16 00-0573	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	439.85 38.96	86.47
<b>22 13 16 00-0574</b>			<b>Polyvinyl Chloride (PVC) DWV Double Sanitary Tees</b> (22 13 16 00-0530)		
22 13 16 00-0575	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	60.47 16.23	36.04
22 13 16 00-0576	EA		2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	78.59 20.78	46.10
22 13 16 00-0577	EA		3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	119.20 27.92	62.01
22 13 16 00-0578	EA		4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	150.24 32.47	72.08
<b>22 13 16 00-0579</b>			<b>Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees</b> (22 13 16 00-0530)		
22 13 16 00-0580	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	70.11 18.51	41.13
22 13 16 00-0581	EA		3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	93.38 22.08	49.02
22 13 16 00-0582	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	104.60 24.35	54.11
22 13 16 00-0583	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	140.35 26.62	59.10
22 13 16 00-0584	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	153.67 30.20	66.99
<b>22 13 16 00-0585</b>			<b>Polyvinyl Chloride (PVC) DWV Reducers</b> (22 13 16 00-0530)		
22 13 16 00-0586	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	33.20 9.25	20.56
22 13 16 00-0587	EA		3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	44.33 11.04	24.46
22 13 16 00-0588	EA		3" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	46.90 12.17	27.06
22 13 16 00-0589	EA		4" x 2" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	56.87 13.31	29.55



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0590	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	63.38 15.10	33.55
	22 13 16 00-0591	EA		6" x 3" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	124.44 17.53	38.96
	22 13 16 00-0592	EA		6" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	115.24 18.67	41.45
	22 13 16 00-0593	EA		8" x 4" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	219.85 22.32	49.57
	22 13 16 00-0594	EA		8" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	202.19 24.76	54.97
	22 13 16 00-0595	EA		10" x 6" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	261.18 29.49	65.48
	22 13 16 00-0596	EA		10" x 8" Polyvinyl Chloride (PVC) DWV Reducers..... <i>For Work In Restricted Working Space, Add</i>	232.67 33.14	73.60
<b>22 13 16 00-0597 Polyvinyl Chloride (PVC) DWV P-Traps (22 13 16 00-0530)</b>						
	22 13 16 00-0598	EA		1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	44.72 12.17	27.06
	22 13 16 00-0599	EA		2" Polyvinyl Chloride (PVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	57.58 15.59	34.63
	22 13 16 00-0600	EA		3" Polyvinyl Chloride (PVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	97.87 20.94	46.53
	22 13 16 00-0601	EA		4" Polyvinyl Chloride (PVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	147.99 24.35	54.11
	22 13 16 00-0602	EA		6" Polyvinyl Chloride (PVC) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	223.67 31.66	70.24
<b>22 13 16 00-0603 Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0530)</b>						
	22 13 16 00-0604	EA		4" Polyvinyl Chloride (PVC) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	62.04 16.23	36.04
	22 13 16 00-0605	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	55.86 15.10	33.55
<b>22 13 16 00-0606 Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0530)</b>						
	22 13 16 00-0607	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	44.81 12.17	27.06
	22 13 16 00-0608	EA		2" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	56.20 15.59	34.63
	22 13 16 00-0609	EA		3" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	79.42 20.94	46.53
	22 13 16 00-0610	EA		4" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	99.07 24.35	54.11
	22 13 16 00-0611	EA		6" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	185.09 31.66	70.24
	22 13 16 00-0612	EA		8" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	239.07 42.62	94.59
	22 13 16 00-0613	EA		10" Polyvinyl Chloride (PVC) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	316.70 56.82	126.08
<b>22 13 16 00-0614 Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0530)</b>						
	22 13 16 00-0615	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	51.91 13.31	29.55
	22 13 16 00-0616	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	55.64 14.45	32.03
	22 13 16 00-0617	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	71.81 18.02	40.04
	22 13 16 00-0618	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	71.28 19.16	42.53
	22 13 16 00-0619	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	86.28 20.29	45.02
	22 13 16 00-0620	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	85.81 21.43	47.62
	22 13 16 00-0621	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	94.18 23.22	51.52
	22 13 16 00-0622	EA		6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	165.80 28.09	62.34
	22 13 16 00-0623	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	189.73 29.22	64.82
	22 13 16 00-0624	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	204.91 36.53	81.06
	22 13 16 00-0625	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	238.67 38.96	86.47
	22 13 16 00-0626	EA		10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	247.01 46.00	102.06
	22 13 16 00-0627	EA		10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	282.98 48.43	107.47
	22 13 16 00-0628	EA		10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	317.41 52.08	115.59



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 13 16 00-0629 Polyvinyl Chloride (PVC) DWV Double Wyes</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0630 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	63.11	36.04
<i>For Work In Restricted Working Space, Add</i>	16.23	
22 13 16 00-0631 EA 2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	80.83	46.10
<i>For Work In Restricted Working Space, Add</i>	20.78	
22 13 16 00-0632 EA 3" Polyvinyl Chloride (PVC) DWV Double Wyes.....	122.95	62.01
<i>For Work In Restricted Working Space, Add</i>	27.92	
22 13 16 00-0633 EA 4" Polyvinyl Chloride (PVC) DWV Double Wyes.....	168.80	72.08
<i>For Work In Restricted Working Space, Add</i>	32.47	
22 13 16 00-0634 EA 6" Polyvinyl Chloride (PVC) DWV Double Wyes.....	277.87	93.73
<i>For Work In Restricted Working Space, Add</i>	42.21	
22 13 16 00-0635 EA 8" Polyvinyl Chloride (PVC) DWV Double Wyes.....	344.22	126.19
<i>For Work In Restricted Working Space, Add</i>	56.82	
22 13 16 00-0636 EA 10" Polyvinyl Chloride (PVC) DWV Double Wyes.....	499.21	168.18
<i>For Work In Restricted Working Space, Add</i>	75.75	
<b>22 13 16 00-0637 Polyvinyl Chloride (PVC) DWV Reducing Double Wyes</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0638 EA 2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	72.25	41.13
<i>For Work In Restricted Working Space, Add</i>	18.51	
22 13 16 00-0639 EA 3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	99.82	49.02
<i>For Work In Restricted Working Space, Add</i>	22.08	
22 13 16 00-0640 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	103.41	54.11
<i>For Work In Restricted Working Space, Add</i>	24.35	
22 13 16 00-0641 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes.....	125.05	59.10
<i>For Work In Restricted Working Space, Add</i>	26.62	
22 13 16 00-0642 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes.....	148.61	66.99
<i>For Work In Restricted Working Space, Add</i>	30.20	
22 13 16 00-0643 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes.....	203.24	82.90
<i>For Work In Restricted Working Space, Add</i>	37.34	
22 13 16 00-0644 EA 8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes.....	240.54	99.14
<i>For Work In Restricted Working Space, Add</i>	44.64	
22 13 16 00-0645 EA 8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes.....	285.64	109.96
<i>For Work In Restricted Working Space, Add</i>	49.51	
22 13 16 00-0646 EA 10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes.....	306.84	120.13
<i>For Work In Restricted Working Space, Add</i>	54.11	
22 13 16 00-0647 EA 10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes.....	366.74	130.95
<i>For Work In Restricted Working Space, Add</i>	58.98	
22 13 16 00-0648 EA 10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes.....	429.36	147.18
<i>For Work In Restricted Working Space, Add</i>	66.29	
<b>22 13 16 00-0649 Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0650 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....	47.44	27.06
<i>For Work In Restricted Working Space, Add</i>	12.17	
22 13 16 00-0651 EA 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....	60.31	34.63
<i>For Work In Restricted Working Space, Add</i>	15.59	
22 13 16 00-0652 EA 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....	91.78	46.53
<i>For Work In Restricted Working Space, Add</i>	20.94	
22 13 16 00-0653 EA 4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....	126.79	54.11
<i>For Work In Restricted Working Space, Add</i>	24.35	
<b>22 13 16 00-0654 Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0655 EA 2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....	65.47	32.03
<i>For Work In Restricted Working Space, Add</i>	14.45	
22 13 16 00-0656 EA 3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....	90.15	40.04
<i>For Work In Restricted Working Space, Add</i>	18.02	
22 13 16 00-0657 EA 3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....	82.65	42.53
<i>For Work In Restricted Working Space, Add</i>	19.16	
22 13 16 00-0658 EA 4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....	113.25	47.62
<i>For Work In Restricted Working Space, Add</i>	21.43	
22 13 16 00-0659 EA 4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends .....	122.69	51.52
<i>For Work In Restricted Working Space, Add</i>	23.22	
<b>22 13 16 00-0660 Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0661 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....	65.15	36.04
<i>For Work In Restricted Working Space, Add</i>	16.23	
22 13 16 00-0662 EA 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends .....	81.06	46.10
<i>For Work In Restricted Working Space, Add</i>	20.78	
22 13 16 00-0663 EA 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends .....	113.56	62.01
<i>For Work In Restricted Working Space, Add</i>	27.92	
22 13 16 00-0664 EA 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends .....	216.20	72.08
<i>For Work In Restricted Working Space, Add</i>	32.47	
22 13 16 00-0665 EA 6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends .....	532.67	93.73
<i>For Work In Restricted Working Space, Add</i>	42.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 13 16 00-0666 Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0667 EA 2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....	97.82	41.13
For Work In Restricted Working Space, Add	18.51	
22 13 16 00-0668 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....	142.38	54.11
For Work In Restricted Working Space, Add	24.35	
22 13 16 00-0669 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....	202.82	59.10
For Work In Restricted Working Space, Add	26.62	
22 13 16 00-0670 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....	200.49	66.99
For Work In Restricted Working Space, Add	30.20	
22 13 16 00-0671 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends.....	380.54	82.90
For Work In Restricted Working Space, Add	37.34	
<b>22 13 16 00-0672 Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0673 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....	72.06	34.63
For Work In Restricted Working Space, Add	15.59	
22 13 16 00-0674 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....	108.23	46.53
For Work In Restricted Working Space, Add	20.94	
22 13 16 00-0675 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....	148.00	54.11
For Work In Restricted Working Space, Add	24.35	
22 13 16 00-0676 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....	299.72	70.24
For Work In Restricted Working Space, Add	31.66	
22 13 16 00-0677 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....	383.84	94.59
For Work In Restricted Working Space, Add	42.62	
22 13 16 00-0678 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....	510.10	126.08
For Work In Restricted Working Space, Add	56.82	
<b>22 13 16 00-0679 Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0680 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....	30.54	18.07
For Work In Restricted Working Space, Add	8.12	
22 13 16 00-0681 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....	40.24	23.06
For Work In Restricted Working Space, Add	10.39	
22 13 16 00-0682 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....	55.16	30.95
For Work In Restricted Working Space, Add	13.96	
22 13 16 00-0683 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....	74.40	36.04
For Work In Restricted Working Space, Add	16.23	
22 13 16 00-0684 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....	126.04	46.86
For Work In Restricted Working Space, Add	21.11	
22 13 16 00-0685 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....	230.48	63.10
For Work In Restricted Working Space, Add	28.41	
22 13 16 00-0686 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....	384.51	84.09
For Work In Restricted Working Space, Add	37.86	
<b>22 13 16 00-0687 Polyvinyl Chloride (PVC) Couplings</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0688 EA 1-1/2" Polyvinyl Chloride (PVC) Couplings .....	28.09	18.07
For Work In Restricted Working Space, Add	8.12	
22 13 16 00-0689 EA 2" Polyvinyl Chloride (PVC) Couplings .....	35.79	23.06
For Work In Restricted Working Space, Add	10.39	
22 13 16 00-0690 EA 3" Polyvinyl Chloride (PVC) Couplings .....	49.49	30.95
For Work In Restricted Working Space, Add	13.96	
22 13 16 00-0691 EA 4" Polyvinyl Chloride (PVC) Couplings .....	58.98	36.04
For Work In Restricted Working Space, Add	16.23	
22 13 16 00-0692 EA 6" Polyvinyl Chloride (PVC) Couplings .....	97.21	46.86
For Work In Restricted Working Space, Add	21.11	
22 13 16 00-0693 EA 8" Polyvinyl Chloride (PVC) Couplings .....	172.28	63.10
For Work In Restricted Working Space, Add	28.41	
22 13 16 00-0694 EA 10" Polyvinyl Chloride (PVC) Couplings .....	246.51	84.09
For Work In Restricted Working Space, Add	37.88	
<b>22 13 16 00-0695 Polyvinyl Chloride (PVC) Male Adapters</b> <small>(22 13 16 00-0530)</small>		
22 13 16 00-0696 EA 1-1/2" Polyvinyl Chloride (PVC) Male Adapters .....	14.57	8.98
For Work In Restricted Working Space, Add	4.06	
22 13 16 00-0697 EA 2" Polyvinyl Chloride (PVC) Male Adapters .....	19.88	11.58
For Work In Restricted Working Space, Add	5.20	
22 13 16 00-0698 EA 3" Polyvinyl Chloride (PVC) Male Adapters .....	30.38	15.48
For Work In Restricted Working Space, Add	6.98	
22 13 16 00-0699 EA 4" Polyvinyl Chloride (PVC) Male Adapters .....	43.36	18.07
For Work In Restricted Working Space, Add	8.12	
<b>22 13 16 00-0700 Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe</b> <small>(22 13 16 00-0504)</small>		
Note: In place piping.		
22 13 16 00-0701 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	7.94	
22 13 16 00-0702 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	8.73	
22 13 16 00-0703 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	11.11	
22 13 16 00-0704 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	14.99	
22 13 16 00-0705 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	21.43	
22 13 16 00-0706 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	28.57	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0707 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe.....	34.93	
<b>22 13 16 00-0708 Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings</b> <small>(22 13 16)</small> Note: Aboveground installation.		
<b>22 13 16 00-0709 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies</b> <small>(22 13 16 00-0708)</small> Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0710 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly.....	22.06	4.54
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	6.23	
22 13 16 00-0711 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly.....	24.45	5.41
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	6.89	
22 13 16 00-0712 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly.....	31.21	7.79
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	8.56	
22 13 16 00-0713 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly.....	35.06	8.44
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	9.51	
22 13 16 00-0714 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly.....	50.25	10.82
Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
<i>For Work In Restricted Working Space, Add</i>	12.65	
<b>22 13 16 00-0715 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628)</b> <small>(22 13 16 00-0708)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0716 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	7.21	4.54
<i>For Work In Restricted Working Space, Add</i>	2.03	
22 13 16 00-0717 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	8.72	5.41
<i>For Work In Restricted Working Space, Add</i>	2.43	
22 13 16 00-0718 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	12.90	7.79
<i>For Work In Restricted Working Space, Add</i>	3.49	
22 13 16 00-0719 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	14.42	8.44
<i>For Work In Restricted Working Space, Add</i>	3.79	
22 13 16 00-0720 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe.....	18.22	9.73
<i>For Work In Restricted Working Space, Add</i>	4.37	
<b>22 13 16 00-0721 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661)</b> <small>(22 13 16 00-0708)</small>		
<b>22 13 16 00-0722 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0723 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends.....	28.98	18.07
<i>For Work In Restricted Working Space, Add</i>	8.12	
22 13 16 00-0724 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends.....	37.37	23.06
<i>For Work In Restricted Working Space, Add</i>	10.39	
22 13 16 00-0725 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends.....	55.00	30.95
<i>For Work In Restricted Working Space, Add</i>	13.96	
22 13 16 00-0726 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends.....	70.70	36.04
<i>For Work In Restricted Working Space, Add</i>	16.23	
22 13 16 00-0727 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends.....	132.26	46.86
<i>For Work In Restricted Working Space, Add</i>	21.11	
<b>22 13 16 00-0728 Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0729 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends.....	31.64	18.07
<i>For Work In Restricted Working Space, Add</i>	8.12	
22 13 16 00-0730 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends.....	39.97	23.06
<i>For Work In Restricted Working Space, Add</i>	10.39	
22 13 16 00-0731 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends.....	61.45	30.95
<i>For Work In Restricted Working Space, Add</i>	13.96	
22 13 16 00-0732 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends.....	83.54	36.04
<i>For Work In Restricted Working Space, Add</i>	16.23	
<b>22 13 16 00-0733 Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0734 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends.....	29.34	18.07
<i>For Work In Restricted Working Space, Add</i>	8.12	
22 13 16 00-0735 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends.....	37.12	23.06
<i>For Work In Restricted Working Space, Add</i>	10.39	
22 13 16 00-0736 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends.....	53.67	30.95
<i>For Work In Restricted Working Space, Add</i>	13.96	
22 13 16 00-0737 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends.....	68.25	36.04
<i>For Work In Restricted Working Space, Add</i>	16.23	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0738	EA			6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	134.83 21.11	46.86
<b>22 13 16 00-0739</b>				<b>Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees</b> (22 13 16 00-0721)		
22 13 16 00-0740	EA			1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	43.86 12.17	27.06
22 13 16 00-0741	EA			2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	56.87 15.59	34.63
22 13 16 00-0742	EA			3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	82.35 20.94	46.53
22 13 16 00-0743	EA			4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	105.27 24.35	54.11
22 13 16 00-0744	EA			6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	236.16 31.66	70.24
<b>22 13 16 00-0745</b>				<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees</b> (22 13 16 00-0721)		
22 13 16 00-0746	EA			2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	49.59 13.31	29.55
22 13 16 00-0747	EA			2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	55.49 14.45	32.03
22 13 16 00-0748	EA			2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	52.88 14.45	32.03
22 13 16 00-0749	EA			3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	69.65 18.02	40.04
22 13 16 00-0750	EA			3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	73.52 19.16	42.53
22 13 16 00-0751	EA			4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	102.38 20.29	45.02
22 13 16 00-0752	EA			4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	103.86 21.43	47.62
22 13 16 00-0753	EA			4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	115.41 23.22	51.52
22 13 16 00-0754	EA			6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	243.47 29.22	64.82
<b>22 13 16 00-0755</b>				<b>Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees</b> (22 13 16 00-0721)		
22 13 16 00-0756	EA			1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	64.06 16.23	36.04
22 13 16 00-0757	EA			2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	83.79 20.78	46.10
22 13 16 00-0758	EA			3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	133.85 27.92	62.01
22 13 16 00-0759	EA			4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	173.58 32.47	72.08
<b>22 13 16 00-0760</b>				<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees</b> (22 13 16 00-0721)		
22 13 16 00-0761	EA			2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	72.97 18.51	41.13
22 13 16 00-0762	EA			3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	94.38 22.08	49.02
22 13 16 00-0763	EA			3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	105.76 24.35	54.11
22 13 16 00-0764	EA			4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	133.90 23.92	53.09
22 13 16 00-0765	EA			4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees ..... <i>For Work In Restricted Working Space, Add</i>	146.08 27.13	60.19
<b>22 13 16 00-0766</b>				<b>Acrylonitrile Butadiene Styrene (ABS) DWV Wyes</b> (22 13 16 00-0721)		
22 13 16 00-0767	EA			1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	47.17 12.17	27.06
22 13 16 00-0768	EA			2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	58.72 15.59	34.63
22 13 16 00-0769	EA			3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	84.79 20.94	46.53
22 13 16 00-0770	EA			4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	109.09 24.35	54.11
22 13 16 00-0771	EA			6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	207.95 31.66	70.24
<b>22 13 16 00-0772</b>				<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes</b> (22 13 16 00-0721)		
22 13 16 00-0773	EA			2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes ..... <i>For Work In Restricted Working Space, Add</i>	56.13 13.31	29.55
22 13 16 00-0774	EA			2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	59.80 14.45	32.03



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0775	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	75.49 19.16	42.53
22 13 16 00-0776	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	93.86 21.43	47.62
22 13 16 00-0777	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	103.59 23.22	51.52
22 13 16 00-0778	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	182.04 29.22	64.82
<b>22 13 16 00-0779</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0780	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	68.13 16.23	36.04
22 13 16 00-0781	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	87.31 20.78	46.10
22 13 16 00-0782	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	139.70 27.92	62.01
22 13 16 00-0783	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	202.70 32.47	72.08
<b>22 13 16 00-0784</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0785	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	78.17 18.51	41.13
22 13 16 00-0786	EA		3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes ..... <i>For Work In Restricted Working Space, Add</i>	106.49 22.08	49.02
22 13 16 00-0787	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	115.79 24.35	54.11
22 13 16 00-0788	EA		4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	145.38 26.62	59.10
22 13 16 00-0789	EA		4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	175.46 30.20	66.99
<b>22 13 16 00-0790</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0791	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	51.11 12.17	27.06
22 13 16 00-0792	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	65.64 15.59	34.63
22 13 16 00-0793	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	92.36 20.94	46.53
22 13 16 00-0794	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	117.20 21.88	48.62
<b>22 13 16 00-0795</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0796	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	59.24 14.45	32.03
22 13 16 00-0797	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	86.32 18.02	40.04
22 13 16 00-0798	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	80.25 19.16	42.53
22 13 16 00-0799	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	107.97 21.43	47.62
22 13 16 00-0800	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends ..... <i>For Work In Restricted Working Space, Add</i>	116.95 23.22	51.52
<b>22 13 16 00-0801</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0802	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	94.05 20.78	46.10
22 13 16 00-0803	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	150.22 27.92	62.01
<b>22 13 16 00-0804</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0805	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	81.63 18.51	41.13
22 13 16 00-0806	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	137.35 24.35	54.11
<b>22 13 16 00-0807</b>			<b>Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0808	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug ..... <i>For Work In Restricted Working Space, Add</i>	52.97 12.17	27.06



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>	
<b>Facility Sanitary Sewerage</b>	<b>22 13</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0809 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug ..... <i>For Work In Restricted Working Space, Add</i>	67.49 15.59	34.63
22 13 16 00-0810 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug ..... <i>For Work In Restricted Working Space, Add</i>	96.51 20.94	46.53
22 13 16 00-0811 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug ..... <i>For Work In Restricted Working Space, Add</i>	131.08 24.35	54.11
<b>22 13 16 00-0812 Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug<sup>(22)</sup></b> <small><sup>13 16 00-0721)</sup></small>		
22 13 16 00-0813 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	31.31 8.12	18.07
22 13 16 00-0814 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	41.48 10.99	23.06
22 13 16 00-0815 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	57.06 13.96	30.95
22 13 16 00-0816 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	78.91 16.23	36.04
22 13 16 00-0817 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug..... <i>For Work In Restricted Working Space, Add</i>	138.43 21.11	46.86
<b>22 13 16 00-0818 Acrylonitrile Butadiene Styrene (ABS) DWV Couplings<sup>(22 13 16 00-0721)</sup></b>		
22 13 16 00-0819 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	28.52 8.12	18.07
22 13 16 00-0820 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	36.17 10.39	23.06
22 13 16 00-0821 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	50.73 13.96	30.95
22 13 16 00-0822 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	61.03 16.23	36.04
22 13 16 00-0823 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings..... <i>For Work In Restricted Working Space, Add</i>	104.56 21.11	46.86
<b>22 13 16 00-0824 Acrylonitrile Butadiene Styrene (ABS) DWV Reducers<sup>(22 13 16 00-0721)</sup></b>		
22 13 16 00-0825 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	34.55 9.25	20.56
22 13 16 00-0826 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	48.55 11.04	24.46
22 13 16 00-0827 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	50.44 12.17	27.06
22 13 16 00-0828 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	63.83 13.31	29.55
22 13 16 00-0829 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers ..... <i>For Work In Restricted Working Space, Add</i>	70.68 15.10	33.55
<b>22 13 16 00-0830 Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps<sup>(22 13 16 00-0721)</sup></b>		
22 13 16 00-0831 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	47.77 12.17	27.06
22 13 16 00-0832 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	63.59 15.59	34.63
22 13 16 00-0833 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	123.15 20.94	46.53
22 13 16 00-0834 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps..... <i>For Work In Restricted Working Space, Add</i>	190.44 24.35	54.11
<b>22 13 16 00-0835 Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges<sup>(22 13 16 00-0721)</sup></b>		
22 13 16 00-0836 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	64.15 16.23	36.04
22 13 16 00-0837 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges..... <i>For Work In Restricted Working Space, Add</i>	59.74 15.10	33.55
<b>22 13 16 00-0838 Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters<sup>(22 13 16 00-0721)</sup></b>		
22 13 16 00-0839 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters ..... <i>For Work In Restricted Working Space, Add</i>	15.40 4.06	8.98
22 13 16 00-0840 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	20.63 5.20	11.58
22 13 16 00-0841 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	32.92 6.98	15.48
22 13 16 00-0842 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	48.40 8.12	18.07
<b>22 13 16 00-0843 Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings<sup>(22 13 16 00-0721)</sup></b>		
22 13 16 00-0844 EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	32.38 9.25	20.56
22 13 16 00-0845 EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing..... <i>For Work In Restricted Working Space, Add</i>	45.12 11.04	24.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0846 EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing ..... <i>For Work In Restricted Working Space, Add</i>	45.87 12.17	27.06
22 13 16 00-0847 EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing ..... <i>For Work In Restricted Working Space, Add</i>	63.56 13.31	29.55
22 13 16 00-0848 EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing ..... <i>For Work In Restricted Working Space, Add</i>	61.44 15.10	33.55
22 13 16 00-0849 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing ..... <i>For Work In Restricted Working Space, Add</i>	99.52 16.77	37.24
<b>22 13 16 00-0850 Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings</b> <small>(22 13 16 00-0721)</small>		
22 13 16 00-0851 EA 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling ..... <i>For Work In Restricted Working Space, Add</i>	44.10 8.12	18.07
22 13 16 00-0852 EA 2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling ..... <i>For Work In Restricted Working Space, Add</i>	52.81 10.39	23.06
22 13 16 00-0853 EA 3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling ..... <i>For Work In Restricted Working Space, Add</i>	65.84 13.96	30.95
22 13 16 00-0854 EA 4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling ..... <i>For Work In Restricted Working Space, Add</i>	74.56 16.23	36.04
<b>22 13 16 00-0855 Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe</b> <small>(22 13 16 00-0708)</small> Note: In place piping.		
22 13 16 00-0856 EA 1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....	7.94	
22 13 16 00-0857 EA 2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....	8.73	
22 13 16 00-0858 EA 3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....	11.11	
22 13 16 00-0859 EA 4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....	14.99	
22 13 16 00-0860 EA 6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe .....	21.43	
<b>22 13 16 00-0861 Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings</b> <small>(22 13 16)</small>		
<b>22 13 16 00-0862 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Couplings</b> <small>(22 13 16 00-0861)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps. Fernco 1056.		
22 13 16 00-0863 EA 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	12.95 2.82	4.70
22 13 16 00-0864 EA 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	13.24 3.00	4.99
22 13 16 00-0865 EA 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	13.94 3.17	5.29
22 13 16 00-0866 EA 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	15.72 3.35	5.59
22 13 16 00-0867 EA 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	17.44 3.53	5.88
22 13 16 00-0868 EA 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	21.27 3.71	6.17
22 13 16 00-0869 EA 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	25.10 3.88	6.47
22 13 16 00-0870 EA 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	32.83 4.23	7.05
22 13 16 00-0871 EA 10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	42.50 4.94	8.23
<b>22 13 16 00-0872 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Couplings</b> <small>(22 13 16 00-0861)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps. Fernco 1056.		
22 13 16 00-0873 EA 1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	13.79 3.00	4.99
22 13 16 00-0874 EA 2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	14.13 3.17	5.29
22 13 16 00-0875 EA 3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	17.82 3.35	5.59
22 13 16 00-0876 EA 3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	16.26 3.35	5.59
22 13 16 00-0877 EA 4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	21.44 3.53	5.88
22 13 16 00-0878 EA 4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	20.65 3.53	5.88
22 13 16 00-0879 EA 4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	19.17 3.53	5.88



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>	
<b>Facility Sanitary Sewerage</b>	<b>22 13</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0880 EA 5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	26.62 3.71	6.17
22 13 16 00-0881 EA 5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	24.36 3.71	6.17
22 13 16 00-0882 EA 6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	32.34 3.88	6.47
22 13 16 00-0883 EA 6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	28.96 3.88	6.47
22 13 16 00-0884 EA 6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	29.90 3.88	6.47
22 13 16 00-0885 EA 8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	58.23 7.06	11.75
22 13 16 00-0886 EA 8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	48.88 7.06	11.75
22 13 16 00-0887 EA 10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Polyvinyl Chloride (PVC) Flexible Reducing Pipe Coupling ..... <i>For Work In Restricted Working Space, Add</i>	60.99 7.94	13.23
<b>22 13 16 00-0888 Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Caps (22 13 16)</b> Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp. Fernco QC.		
22 13 16 00-0889 EA 1-1/2" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap .....	51.05	31.75
22 13 16 00-0890 EA 2" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap.....	54.67	33.75
22 13 16 00-0891 EA 3" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap.....	63.21	38.69
22 13 16 00-0892 EA 4" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap.....	83.44	51.15
22 13 16 00-0893 EA 5" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap.....	99.96	61.15
22 13 16 00-0894 EA 6" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap.....	115.50	70.55
22 13 16 00-0895 EA 8" Elastomeric Polyvinyl Chloride (PVC) Flexible Pipe Cap.....	153.59	89.37
<b>22 13 16 00-0896 Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (22 13 16)</b> Note: Josam 26450 Series.		
22 13 16 00-0897 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....	77.15	24.35
22 13 16 00-0898 EA 2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....	82.56	27.06
22 13 16 00-0899 EA 3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....	119.12	35.18
22 13 16 00-0900 EA 4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....	139.09	40.58
22 13 16 00-0901 EA 5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....	161.08	46.00
22 13 16 00-0902 EA 6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess .....	249.12	51.41
<b>22 13 16 00-0903 Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (22 13 16)</b> Note: Josam 26440 Series		
22 13 16 00-0904 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess.....	137.10	24.35
22 13 16 00-0905 EA 2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	142.51	27.06
22 13 16 00-0906 EA 3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	171.96	35.18
22 13 16 00-0907 EA 4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	212.24	40.58
22 13 16 00-0908 EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	282.00	46.00
22 13 16 00-0909 EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess .....	292.82	51.41
<b>22 13 16 00-0910 Cast Iron Vandal Proof Hooded Vent Cap (22 13 16)</b> Note: Includes counterflashing collar, deep protective hood and recessed securing screws. Josam 26700 Series.		
22 13 16 00-0911 EA 1-1/2" Cast Iron Vandal Proof Hooded Vent Cap.....	243.78	24.35
22 13 16 00-0912 EA 2" Cast Iron Vandal Proof Hooded Vent Cap .....	249.19	27.06
22 13 16 00-0913 EA 3" Cast Iron Vandal Proof Hooded Vent Cap.....	289.81	35.18
22 13 16 00-0914 EA 4" Cast Iron Vandal Proof Hooded Vent Cap.....	327.05	40.58
22 13 16 00-0915 EA 5" Cast Iron Vandal Proof Hooded Vent Cap.....	380.56	46.00
22 13 16 00-0916 EA 6" Cast Iron Vandal Proof Hooded Vent Cap.....	416.78	51.41
<b>22 13 19 Sanitary Waste Piping Specialties (22 13)</b>		
<b>22 13 19 13 Sanitary Drains (22 13 19)</b>		
<b>22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)</b>		
22 13 19 13-0002 EA 6" Round Top Floor Drain With 1-1/2" Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	384.54 40.00 22.50 11.00	116.34
22 13 19 13-0003 EA 6" Round Top Floor Drain With 2" Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	426.26 40.00 22.50 11.00	130.41
22 13 19 13-0004 EA 6" Round Top Floor Drain With 3" Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	440.50 40.00 22.50 11.00	144.26

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0005	EA		6" Round Top Floor Drain With 4" Outlet, Bronze Top.....	470.21	159.20
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0006	EA		9" Round Top Floor Drain With 2" Outlet, Cast Iron Top.....	405.68	130.41
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0007	EA		9" Round Top Floor Drain With 3" Outlet, Cast Iron Top.....	433.50	144.26
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0008	EA		9" Round Top Floor Drain With 4" Outlet, Cast Iron Top.....	463.21	159.20
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0009	EA		9" Round Top Floor Drain With 2" Outlet, Nikaloy Top.....	549.88	130.41
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0010	EA		9" Round Top Floor Drain With 3" Outlet, Nikaloy Top.....	577.70	144.26
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0011	EA		9" Round Top Floor Drain With 4" Outlet, Nikaloy Top.....	607.41	159.20
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0012	EA		9" Round Top Floor Drain With 2" Outlet, Bronze Top.....	528.88	130.41
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0013	EA		9" Round Top Floor Drain With 3" Outlet, Bronze Top.....	556.55	144.26
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	
22 13 19 13-0014	EA		9" Round Top Floor Drain With 4" Outlet, Bronze Top.....	586.41	159.20
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	48.00	
			<i>For Cast Iron Dome Grate, Add</i>	17.00	
			<i>For Nikaloy Dome Grate, Add</i>	178.50	
			<i>For Bronze Dome Grate, Add</i>	143.00	
			<i>For Cast Iron Extension Collar, Each 3" (76 mm), Add</i>	57.50	
			<i>For Galvanized Extension Collar, Each 3", Add</i>	117.50	



	<b>Plumbing</b>	<b>22</b>
	<b>Plumbing Piping</b>	<b>22 10</b>
	<b>Facility Sanitary Sewerage</b>	<b>22 13</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0015 EA 12-5/8" Round Top Floor Drain With 2" Outlet, Cast Iron Top .....	562.36	130.30
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0016 EA 12-5/8" Round Top Floor Drain With 3" Outlet, Cast Iron Top .....	590.15	144.26
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0017 EA 12-5/8" Round Top Floor Drain With 4" Outlet, Cast Iron Top .....	620.01	159.20
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0018 EA 12-5/8" Round Top Floor Drain With 2" Outlet, Nikaloy Top .....	777.96	130.30
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0019 EA 12-5/8" Round Top Floor Drain With 3" Outlet, Nikaloy Top .....	805.75	144.26
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0020 EA 12-5/8" Round Top Floor Drain With 4" Outlet, Nikaloy Top .....	835.61	159.20
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	
22 13 19 13-0021 EA 12-5/8" Round Top Floor Drain With 2" Outlet, Bronze Top .....	749.26	130.30
For Chained Grate, Add	48.50	
For Primer Tap, Add	33.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	53.00	
For Cast Iron Dome Grate, Add	28.00	
For Nikaloy Dome Grate, Add	255.00	
For Bronze Dome Grate, Add	218.50	
For Cast Iron Extension Collar, Each 2", Add	51.00	
For Galvanized Extension Collar, Each 2", Add	102.50	
For Galvanized Cast Iron Parts, Add	132.00	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0022	EA		12-5/8" Round Top Floor Drain With 3" Outlet, Bronze Top.....	777.05	144.26
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19 13-0023	EA		12-5/8" Round Top Floor Drain With 4" Outlet, Bronze Top.....	806.91	159.20
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
<b>22 13 19 13-0024</b>			<b>Square Or Rectangular Top Drains <small>(22 13 19 13)</small></b>		
22 13 19 13-0025	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	445.46	130.30
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0026	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	473.55	144.37
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0027	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	503.11	159.20
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0028	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	466.46	130.30
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0029	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	494.55	144.37
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0030	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	524.11	159.20
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0031	EA		8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	558.86	130.30
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0032	EA		8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top.....	586.95	144.37
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0033	EA		8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top.....	616.51	159.20
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0034	EA		5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top.....	430.06	130.30
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0035	EA		5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top.....	458.15	144.37
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0036	EA		5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top.....	487.71	159.20
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0037	EA		6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top.....	456.66	130.30
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0038	EA		6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top.....	484.75	144.37
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0039	EA		6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top.....	514.31	159.20
			<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Vandal Proof Screws, Add</i>	11.00	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22	13	19	13-0040	EA 8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	531.56 40.00 22.50 11.00	130.30
22	13	19	13-0041	EA 8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	559.65 40.00 22.50 11.00	144.37
22	13	19	13-0042	EA 8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i>	589.21 40.00 22.50 11.00	159.20
22	13	19	13-0043	EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top..... <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,100.05 48.50 76.00 212.00	144.37
22	13	19	13-0044	EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top..... <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,129.61 48.50 76.00 212.00	159.20
22	13	19	13-0045	EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,328.25 48.50 76.00 212.00	144.37
22	13	19	13-0046	EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,357.81 48.50 76.00 212.00	159.20
22	13	19	13-0047	EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top..... <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,300.95 48.50 76.00 212.00	144.37
22	13	19	13-0048	EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top..... <i>For Chained Grate, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,330.51 48.50 76.00 212.00	159.20
22	13	19	13-0049	EA 5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	564.46 22.50 11.00 120.94	130.30
22	13	19	13-0050	EA 5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	592.55 22.50 11.00 120.94	144.37
22	13	19	13-0051	EA 5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	622.11 22.50 11.00 120.94	159.20
22	13	19	13-0052	EA 5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	672.96 22.50 11.00 120.94	130.30
22	13	19	13-0053	EA 5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	701.05 22.50 11.00 120.94	144.37
22	13	19	13-0054	EA 5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	730.61 22.50 11.00 120.94	159.20
22	13	19	13-0055	EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	698.16 22.50 11.00 120.94	130.30
22	13	19	13-0056	EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	726.25 22.50 11.00 120.94	144.37
22	13	19	13-0057	EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	755.81 22.50 11.00 120.94	159.20
22	13	19	13-0058	EA 5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	893.46 22.50 11.00 120.94	130.30
22	13	19	13-0059	EA 5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	921.55 22.50 11.00 120.94	144.37
22	13	19	13-0060	EA 5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	951.11 22.50 11.00 120.94	159.20

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0061 EA 5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top .....	542.06	130.30
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0062 EA 5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top .....	570.15	144.37
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0063 EA 5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top .....	599.71	159.20
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0064 EA 5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top .....	634.46	130.30
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0065 EA 5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top .....	662.55	144.37
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0066 EA 5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top .....	692.11	159.20
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0067 EA 5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top .....	659.66	130.30
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0068 EA 5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top .....	687.75	144.37
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0069 EA 5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top .....	717.31	159.20
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0070 EA 5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top .....	818.56	130.30
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0071 EA 5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top .....	846.65	144.37
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
22 13 19 13-0072 EA 5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top .....	876.21	159.20
For Sediment Bucket, Add	22.50	
For Vandal Proof Screws, Add	11.00	
For Rough Bronze Body, Add	120.94	
<b>22 13 19 13-0073 Funnel Type Floor Drains</b> <small>(22 13 19 13)</small>		
22 13 19 13-0074 EA 7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top .....	523.24	116.34
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0075 EA 7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top .....	551.16	130.30
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0076 EA 7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top .....	578.95	144.26
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0077 EA 7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top .....	608.81	159.20
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0078 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top .....	708.66	130.30
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0079 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top .....	736.45	144.26
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0080 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top .....	766.31	159.20
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0081 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top .....	681.36	130.30
For Galvanized Cast Iron Parts, Add	40.00	
For Satin Finish Bronze Top, Deduct	-19.50	
For Vandal Proof Screws, Add	11.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0082 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top.....	709.15	144.26
<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
22 13 19 13-0083 EA 7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top.....	739.01	159.20
<i>For Galvanized Cast Iron Parts, Add</i>	40.00	
<i>For Satin Finish Bronze Top, Deduct</i>	-19.50	
<i>For Vandal Proof Screws, Add</i>	11.00	
<b>22 13 19 13-0084 Floor Drain With Sediment Bucket Bottom Outlet</b> <small>(22 13 19 13)</small>		
22 13 19 13-0085 EA 12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap.....	923.54	116.34
<i>For Primer Tap, Add</i>	33.50	
<i>For Vandal Proof Screws, Add</i>	30.50	
<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0086 EA 12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap.....	951.56	130.30
<i>For Primer Tap, Add</i>	33.50	
<i>For Vandal Proof Screws, Add</i>	30.50	
<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0087 EA 12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap.....	979.35	144.26
<i>For Primer Tap, Add</i>	33.50	
<i>For Vandal Proof Screws, Add</i>	30.50	
<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0088 EA 12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap.....	1,009.21	159.20
<i>For Primer Tap, Add</i>	33.50	
<i>For Vandal Proof Screws, Add</i>	30.50	
<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0089 EA 12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap.....	1,040.01	174.57
<i>For Primer Tap, Add</i>	33.50	
<i>For Vandal Proof Screws, Add</i>	30.50	
<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0090 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate .....	1,004.76	130.30
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	31.00	
<i>For Aluminum Bucket, Add</i>	77.50	
<i>For Galvanized Cast Iron Parts, Add</i>	182.50	
22 13 19 13-0091 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate .....	1,032.85	144.37
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	31.00	
<i>For Aluminum Bucket, Add</i>	77.50	
<i>For Galvanized Cast Iron Parts, Add</i>	182.50	
22 13 19 13-0092 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate .....	1,062.41	159.20
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	31.00	
<i>For Aluminum Bucket, Add</i>	77.50	
<i>For Galvanized Cast Iron Parts, Add</i>	182.50	
22 13 19 13-0093 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate .....	1,093.21	174.57
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	31.00	
<i>For Aluminum Bucket, Add</i>	77.50	
<i>For Galvanized Cast Iron Parts, Add</i>	182.50	
22 13 19 13-0094 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate .....	689.06	130.30
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	31.00	
<i>For Aluminum Bucket, Add</i>	77.50	
<i>For Galvanized Cast Iron Parts, Add</i>	182.50	
22 13 19 13-0095 EA 12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate .....	717.15	144.37
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	31.00	
<i>For Aluminum Bucket, Add</i>	77.50	
<i>For Galvanized Cast Iron Parts, Add</i>	182.50	
22 13 19 13-0096 EA 12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate .....	746.71	159.20
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	31.00	
<i>For Aluminum Bucket, Add</i>	77.50	
<i>For Galvanized Cast Iron Parts, Add</i>	182.50	
22 13 19 13-0097 EA 12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate .....	777.51	174.57
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	31.00	
<i>For Aluminum Bucket, Add</i>	77.50	
<i>For Galvanized Cast Iron Parts, Add</i>	182.50	
22 13 19 13-0098 EA 12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate .....	950.16	130.30
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	31.00	
<i>For Aluminum Bucket, Add</i>	77.50	
<i>For Galvanized Cast Iron Parts, Add</i>	182.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0099	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	978.25	144.37
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	182.50	
22 13 19 13-0100	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,007.81	159.20
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	182.50	
22 13 19 13-0101	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,038.61	174.57
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	182.50	
<b>22 13 19 13-0102</b>			<b>Other Drains</b> (22 13 19 13)		
<b>22 13 19 13-0103</b>			<b>Shower Drains</b> (22 13 19 13-0102)		
22 13 19 13-0104	EA		4-1/4" Stainless Steel Shower Drain Strainer.....	35.70	11.75
			Note: Includes two 2-5/8" screws.		
22 13 19 13-0105	EA		4-1/4" Brass Shower Drain Strainer.....	38.86	11.75
			Note: Includes two 2-5/8" screws.		
22 13 19 13-0106	EA		4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe.....	85.03	23.52
			Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.		
22 13 19 13-0107	EA		4" Chrome Finish, Threaded Brass Shower Drain And Gasket.....	103.18	23.52
			Note: For 2" pipe. Kohler K-9132.		
<b>22 13 19 13-0108</b>			<b>Acid Resistant Floor Drains</b> (22 13 19 13-0102)		
22 13 19 13-0109	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	525.94	116.34
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
22 13 19 13-0110	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	553.96	130.30
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
22 13 19 13-0111	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	581.75	144.26
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
<b>22 13 19 13-0112</b>			<b>Rotary And Lever Drains</b> (22 13 19 13-0102)		
22 13 19 13-0113	EA		Lever Drain, 1-1/2" Drain, 3" Sink Opening.....	231.05	78.46
22 13 19 13-0114	EA		Lever Drain, 2" Drain, 3" Sink Opening.....	247.28	86.58
22 13 19 13-0115	EA		Lever Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	231.05	78.46
22 13 19 13-0116	EA		Lever Drain, 2" Drain, 3-1/2" Sink Opening.....	247.28	86.58
22 13 19 13-0117	EA		Twist Drain, 1-1/2" Drain, 3" Sink Opening.....	231.05	78.46
22 13 19 13-0118	EA		Twist Drain, 2" Drain, 3" Sink Opening.....	247.28	86.58
22 13 19 13-0119	EA		Twist Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	231.05	78.46
22 13 19 13-0120	EA		Twist Drain, 2" Drain, 3-1/2" Sink Opening.....	247.28	86.58
22 13 19 13-0121	EA		Rotary Twist Drain, 1-1/2"-2" Drain, 3-1/2" Sink Opening (Fisher 16100).....	304.47	86.58
<b>22 13 19 13-0122</b>			<b>Floor Receptor</b> (22 13 19 13)		
<b>22 13 19 13-0123</b>			<b>9" Diameter Round Shallow Receptor</b> (22 13 19 13-0122)		
			Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection.....	627.63	130.41
			<i>For Flange With Seepage Holes, Add</i>	58.50	
			<i>For Flange With Seepage Holes And Clamp Collar, Add</i>	97.00	
			<i>For Trap Primer Connection, Add</i>	38.00	
			<i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i>	36.00	
			<i>For Vandal Proof Secured Grate, Add</i>	33.50	
			<i>For White Acid Resistant Bucket, Add</i>	47.00	
			<i>For Stainless Steel Liner For Bucket, Add</i>	62.50	
22 13 19 13-0125	EA		9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection.....	655.86	144.48
			<i>For Flange With Seepage Holes, Add</i>	58.50	
			<i>For Flange With Seepage Holes And Clamp Collar, Add</i>	97.00	
			<i>For Trap Primer Connection, Add</i>	38.00	
			<i>For Full Grate With 2" (50 mm) Square Center Opening, Add</i>	36.00	
			<i>For Vandal Proof Secured Grate, Add</i>	33.50	
			<i>For White Acid Resistant Bucket, Add</i>	47.00	
			<i>For Stainless Steel Liner For Bucket, Add</i>	62.50	



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>	
<b>Facility Sanitary Sewerage</b>	<b>22 13</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0126 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection .....	685.11	159.20
For Flange With Seepage Holes, Add	58.50	
For Flange With Seepage Holes And Clamp Collar, Add	97.00	
For Trap Primer Connection, Add	38.00	
For Full Grate With 2" (50 mm) Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	33.50	
For White Acid Resistant Bucket, Add	47.00	
For Stainless Steel Liner For Bucket, Add	62.50	
<b>22 13 19 13-0127 Square Top Floor Receptors</b> (22 13 19 13-0122)		
Note: With acid resistant coating.		
22 13 19 13-0128 EA 8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top .....	686.34	116.34
For Flange With Seepage Holes, Add	37.50	
For Flange With Seepage Holes And Clamp Collar, Add	69.00	
For Trap Primer Connection, Add	39.50	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	15.50	
For White Acid Resistant Bucket, Add	88.00	
For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0129 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top.....	714.38	130.41
For Flange With Seepage Holes, Add	37.50	
For Flange With Seepage Holes And Clamp Collar, Add	69.00	
For Trap Primer Connection, Add	39.50	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	15.50	
For White Acid Resistant Bucket, Add	88.00	
For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0130 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top.....	742.05	144.26
For Flange With Seepage Holes, Add	37.50	
For Flange With Seepage Holes And Clamp Collar, Add	69.00	
For Trap Primer Connection, Add	39.50	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	15.50	
For White Acid Resistant Bucket, Add	88.00	
For Stainless Steel Liner For Bucket, Add	97.00	
22 13 19 13-0131 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top.....	771.91	159.20
For Flange With Seepage Holes, Add	37.50	
For Flange With Seepage Holes And Clamp Collar, Add	69.00	
For Trap Primer Connection, Add	39.50	
For Full Grate With 2" Square Center Opening, Add	36.00	
For Vandal Proof Secured Grate, Add	15.50	
For White Acid Resistant Bucket, Add	88.00	
For Stainless Steel Liner For Bucket, Add	97.00	
<b>22 13 19 13-0132 Floor Drain Accessories</b> (22 13 19 13)		
22 13 19 13-0133 EA 3" Trap Guard Floor Drain Insert (ProVent TG3H).....	71.88	13.53
Note: Prevents emission of sewer gases.		
22 13 19 13-0134 EA 2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22) .....	60.68	13.53
Note: Prevents emission of sewer gases.		
22 13 19 13-0135 EA 3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33) .....	65.16	13.53
Note: Prevents emission of sewer gases.		
22 13 19 13-0136 EA 3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP).....	76.36	13.53
Note: Prevents emission of sewer gases.		
22 13 19 13-0137 EA 3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP).....	69.64	13.53
Note: Prevents emission of sewer gases.		
22 13 19 13-0138 EA 2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02) .....	94.47	13.53
Note: Prevents emission of sewer gases.		
22 13 19 13-0139 EA 3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03) .....	103.49	13.53
Note: Prevents emission of sewer gases.		
22 13 19 13-0140 EA 4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04) .....	125.88	13.53
Note: Prevents emission of sewer gases.		
<b>22 13 19 26 Grease Removal Devices</b> (22 13 19)		
22 13 19 26-0001 Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26)		
Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19 26-0002 Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001)		
Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
22 13 19 26-0003 EA 7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	793.72	81.17
Note: Josam 60102H.		
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,320.74	
22 13 19 26-0004 EA 10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	921.83	182.63
Note: Josam 60103H.		
For Flange And Clamp Device, Add	381.92	
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,396.07	
22 13 19 26-0005 EA 15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor .....	1,274.87	202.92
Note: Josam 60104H.		
For Flange And Clamp Device, Add	395.44	
For Steel Enclosure Cabinet With Non Skid Cover, Add	1,524.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0006 EA 20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60105H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,526.89  408.98 1,648.18	223.21
22 13 19 26-0007 EA 25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60106H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,705.71  452.90 1,716.79	243.51
22 13 19 26-0008 EA 35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60107H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,085.81  491.16 1,889.85	284.09
22 13 19 26-0009 EA 50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60108H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,693.57  559.17 2,015.88	324.68
22 13 19 26-0010 EA 75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60109H. <i>For Flange And Clamp Device, Add</i>	5,133.03  787.51	365.26
22 13 19 26-0011 EA 100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60110H. <i>For Flange And Clamp Device, Add</i>	5,774.95  882.09	411.13
22 13 19 26-0012 EA 150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60213A. <i>For Flange And Clamp Device, Add</i>	7,203.03  1,206.55	657.81
22 13 19 26-0013 EA 200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60214A. <i>For Flange And Clamp Device, Add</i>	10,273.40  1,445.46	822.27
22 13 19 26-0014 EA 250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60215A. <i>For Flange And Clamp Device, Add</i>	11,998.37  1,868.06	986.72
22 13 19 26-0015 EA 350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60216A. <i>For Flange And Clamp Device, Add</i>	15,522.51  2,215.45	1,151.18
22 13 19 26-0016 EA 500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60217A. <i>For Flange And Clamp Device, Add</i>	19,992.50  2,598.37	1,315.63
<b>22 13 19 26-0017 Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor</b> (22 13 19 26-0001) Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018 EA 20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A.	2,140.16	223.21
22 13 19 26-0019 EA 35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60117A.	2,751.36	284.09
22 13 19 26-0020 EA 50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Smith 8150.	4,452.87	324.68
<b>22 13 19 26-0021 Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor</b> (22 13 19 26) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
<b>22 13 19 26-0022 Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor</b> (22 13 19 26-0021) Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023 EA 7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60102-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,860.75  1,320.74	81.17
22 13 19 26-0024 EA 10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60103-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,183.22  1,396.07	182.63
22 13 19 26-0025 EA 15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60104-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,337.26  1,524.84	202.92
22 13 19 26-0026 EA 20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60105-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,837.84  1,648.18	223.21
22 13 19 26-0027 EA 25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60106-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	3,405.76  1,716.79	243.51
22 13 19 26-0028 EA 35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60107-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	3,540.79  1,889.85	284.09
22 13 19 26-0029 EA 50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor ..... Note: Josam 60108-SA. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	4,042.08  2,015.88	324.68
<b>22 13 19 26-0030 Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor</b> (22 13 19 26-0021) Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031 EA 35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A-SA.	4,699.20	284.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 13 19 26-0032 Automatic Cleaning Stainless Steel Grease Interceptor</b> <small>(22 13 19 26)</small>		
<small>Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer.</small>		
22 13 19 26-0033 EA 20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor	4,101.67	223.21
<small>Note: Lowe Engineering 20 Greasestopper.</small>		
22 13 19 26-0034 EA 25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor	4,743.14	243.51
<small>Note: Lowe Engineering 25 Greasestopper.</small>		
<b>22 13 19 26-0035 Precast Concrete Grease Interceptor</b> <small>(22 13 19 26)</small>		
<small>Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.</small>		
22 13 19 26-0036 EA 1,000 Gallon Pre-Cast Grease Interceptor	5,137.71	352.71
22 13 19 26-0037 EA 1,250 Gallon Pre-Cast Grease Interceptor	5,882.16	352.71
22 13 19 26-0038 EA 1,500 Gallon Pre-Cast Grease Interceptor	6,675.93	403.23
22 13 19 26-0039 EA 2,000 Gallon Pre-Cast Grease Interceptor	7,588.49	569.47
22 13 19 26-0040 EA 2,500 Gallon Pre-Cast Grease Interceptor	8,534.49	766.18
22 13 19 26-0041 EA 4,000 Gallon Pre-Cast Grease Interceptor	12,811.71	1,008.03
22 13 19 26-0042 EA 5,000 Gallon Pre-Cast Grease Interceptor	16,420.42	1,653.03
<b>22 13 19 26-0043 Coated Steel Manual Oil Interceptor</b> <small>(22 13 19 26)</small>		
<small>Note: Includes internal air relief, and flow control fitting.</small>		
22 13 19 26-0044 EA 10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	2,219.33	309.26
22 13 19 26-0045 EA 15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	2,932.14	367.46
22 13 19 26-0046 EA 20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	3,557.59	452.13
22 13 19 26-0047 EA 25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	3,864.01	489.75
22 13 19 26-0048 EA 35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	4,572.35	534.44
22 13 19 26-0049 EA 50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	5,892.09	587.94
22 13 19 26-0050 EA 75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	9,520.92	676.41
22 13 19 26-0051 EA 100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	10,516.70	832.26
22 13 19 26-0052 EA 150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	12,773.26	902.06
22 13 19 26-0053 EA 200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	17,662.70	1,082.25
22 13 19 26-0054 EA 250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	20,277.92	1,163.43
22 13 19 26-0055 EA 350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	25,442.22	1,387.46
22 13 19 26-0056 EA 400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	30,092.10	1,136.92
22 13 19 26-0057 EA 500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off	35,654.72	1,352.82
<b>22 13 19 33 Backwater Valves</b> <small>(22 13 19)</small>		
<b>22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves</b> <small>(22 13 19 33)</small>		
22 13 19 33-0002 EA 2" Cast Iron Body Terminal Backwater Valve	240.91	31.07
22 13 19 33-0003 EA 3" Cast Iron Body Terminal Backwater Valve	252.82	39.07
22 13 19 33-0004 EA 4" Cast Iron Body Terminal Backwater Valve	361.19	51.95
22 13 19 33-0005 EA 6" Cast Iron Body Terminal Backwater Valve	911.72	67.97
22 13 19 33-0006 EA 8" Cast Iron Body Terminal Backwater Valve	1,119.62	89.46
22 13 19 33-0007 EA 10" Cast Iron Body Terminal Backwater Valve	3,127.55	110.36
22 13 19 33-0008 EA 12" Cast Iron Body Terminal Backwater Valve	3,556.57	143.14
<b>22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve</b> <small>(22 13 19 33)</small>		
<small>Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.</small>		
22 13 19 33-0010 EA 2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	613.27	74.09
22 13 19 33-0011 EA 3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	910.93	89.83
22 13 19 33-0012 EA 4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,132.00	115.80
22 13 19 33-0013 EA 6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	1,539.35	123.49
22 13 19 33-0014 EA 8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly	2,108.21	146.35
<b>22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve</b> <small>(22 13 19 33)</small>		
<small>Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.</small>		
22 13 19 33-0016 EA 3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	1,545.20	117.21
22 13 19 33-0017 EA 4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	1,603.21	155.85
22 13 19 33-0018 EA 5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	2,290.99	182.90
22 13 19 33-0019 EA 6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve	2,322.79	203.91
<b>22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve</b> <small>(22 13 19 33)</small>		
<small>Note: Oatey.</small>		
22 13 19 33-0021 EA 3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900)	102.32	39.07
22 13 19 33-0022 EA 4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904)	126.19	51.95
22 13 19 33-0023 EA 6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908)	307.93	67.97
<b>22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves</b> <small>(22 13 19 33)</small>		
22 13 19 33-0025 EA 3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	231.74	78.14
<small>Note: Includes valve body, flapper assembly and collar.</small>		
22 13 19 33-0026 EA 4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check)	308.57	103.90
<small>Note: Includes valve body, flapper assembly and collar.</small>		

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 33-0027 EA 6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	496.38	135.93
Note: Includes valve body, flapper assembly and collar.		
<b>22 13 19 36 Air-Admittance Valves (22 13 19)</b>		
<b>22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC) Automatic Drain Vent (22 13 19 36)</b>		
22 13 19 36-0002 EA 1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent.....	140.45	15.16
22 13 19 36-0003 EA 2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....	166.17	15.16
<b>22 13 23 Sanitary Waste Interceptors (22 13)</b>		
<b>22 13 23 00-0001 Sediment Bucket Solids Interceptors (22 13 23)</b>		
22 13 23 00-0002 EA 1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180).....	757.89	153.25
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184).....	758.74	153.25
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0004 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....	1,036.43	153.25
Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0005 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0).....	1,036.43	153.25
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0006 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,099.29	153.25
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
<b>22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)</b>		
22 13 23 00-0008 EA 1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	317.32	52.44
For Stainless Steel Bucket, Add 175.00		
22 13 23 00-0009 EA 2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	324.03	55.85
For Stainless Steel Bucket, Add 175.00		
<b>22 13 23 00-0010 Sediment Strainers (22 13 23)</b>		
22 13 23 00-0011 EA 2" Strainer, Pump Suction Side.....	156.43	71.69
<b>22 13 29 Sanitary Sewerage Pumps (22 13)</b>		
Note: Includes extra set of gaskets, bearings and seals.		
<b>22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)</b>		
<b>22 13 29 13-0001 Vertical Non-Clog Sewage Pumps (22 13 29 13)</b>		
<b>22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)</b>		
22 13 29 13-0003 EA 1/2 HP, Up To 75 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,032.64	1,298.28
22 13 29 13-0004 EA 3/4 HP, Up To 125 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,182.37	1,298.28
22 13 29 13-0005 EA 1 HP, Up To 150 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,332.10	1,298.28
22 13 29 13-0006 EA 1-1/2 HP, Up To 150 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,474.93	1,298.28
<b>22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)</b>		
22 13 29 13-0008 EA 3/4 HP, Up To 75 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,447.28	1,298.28
22 13 29 13-0009 EA 1 HP, Up To 100 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,504.88	1,298.28
22 13 29 13-0010 EA 2 HP, Up To 200 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,545.19	1,298.28
22 13 29 13-0011 EA 3 HP, Up To 300 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,821.62	1,298.28
22 13 29 13-0012 EA 5 HP, Up To 400 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,092.29	1,298.28
22 13 29 13-0013 EA 7-1/2 HP, Up To 500 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,506.94	1,298.28
22 13 29 13-0014 EA 10 HP, Up To 600 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,921.59	1,298.28
22 13 29 13-0015 EA 15 HP, Up To 600 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,195.14	1,727.72
<b>22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)</b>		
22 13 29 13-0017 EA 2 HP, Up To 300 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	5,735.85	1,298.28
22 13 29 13-0018 EA 3 HP, Up To 400 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	5,735.85	1,298.28
22 13 29 13-0019 EA 5 HP, Up To 500 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	5,835.62	1,298.28
22 13 29 13-0020 EA 7-1/2 HP, Up To 700 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,609.82	1,298.28
22 13 29 13-0021 EA 10 HP, Up To 800 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,745.62	1,298.28
22 13 29 13-0022 EA 15 HP, Up To 900 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	8,242.91	1,727.72
22 13 29 13-0023 EA 20 HP, Up To 900 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	8,588.45	1,727.72





<b>Plumbing</b>	<b>22</b>	<b>22</b>
Plumbing Piping	22 10	
Facility Sanitary Sewerage	22 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 13 29 13-0024</b> <b>Extra Column Assemblies Addition, 5' Or Less</b> <small>(22 13 29 13-0001)</small>		
22 13 29 13-0025    EA    2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	519.49	
22 13 29 13-0026    EA    3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	623.75	
22 13 29 13-0027    EA    4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	697.18	
22 13 29 13-0028    EA    5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	709.88	
22 13 29 13-0029    EA    6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	796.91	
<b>22 13 29 13-0030</b> <b>Float Switches</b> <small>(22 13 29 13-0001)</small>		
Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031    EA    Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps .....	466.91	
22 13 29 13-0032    EA    Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps .....	490.48	
22 13 29 13-0033    EA    Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps .....	501.36	
<b>22 13 29 13-0034</b> <b>Square Or Round Steel Sump Covers</b> <small>(22 13 29 13-0001)</small>		
22 13 29 13-0035    EA    24" Steel Sump Covers, Square Or Round.....	492.03	43.29
22 13 29 13-0036    EA    30" Steel Sump Covers, Square Or Round.....	545.06	48.70
22 13 29 13-0037    EA    36" Steel Sump Covers, Square Or Round.....	754.07	64.93
22 13 29 13-0038    EA    40" Steel Sump Covers, Square Or Round.....	1,078.65	75.76
22 13 29 13-0039    EA    42" Steel Sump Covers, Square Or Round.....	1,153.90	78.46
22 13 29 13-0040    EA    48" Steel Sump Covers, Square Or Round.....	1,231.81	81.17
22 13 29 13-0041    EA    54" Steel Sump Covers, Square Or Round.....	1,564.09	97.41
22 13 29 13-0042    EA    60" Steel Sump Covers, Square Or Round.....	2,098.26	108.23
22 13 29 13-0043    EA    72" Steel Sump Covers, Square Or Round.....	2,660.54	135.29
22 13 29 13-0044    EA    84" Steel Sump Covers, Square Or Round.....	3,362.44	148.81
<b>22 13 29 16</b> <b>Submersible Sewerage Pumps</b> <small>(22 13 29)</small>		
Note: Includes 25' of cord with pumps unless otherwise noted.		
<b>22 13 29 16-0001</b> <b>Submersible Sewage Pumps With Vortex Impeller</b> <small>(22 13 29 16)</small>		
<b>22 13 29 16-0002</b> <b>Submersible Sewage Pumps With Cast Iron Vortex Impeller</b> <small>(22 13 29 16-0001)</small>		
22 13 29 16-0003    EA    1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	559.20	78.79
22 13 29 16-0004    EA    1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	709.63	78.79
22 13 29 16-0005    EA    1 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	857.94	98.48
<b>22 13 29 16-0006</b> <b>Submersible Sewage Pumps With Bronze Vortex Impeller</b> <small>(22 13 29 16-0001)</small>		
22 13 29 16-0007    EA    1/2 HP Submersible Sewage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller .....	799.97	78.79
22 13 29 16-0008    EA    1 HP Submersible Sewage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller .....	980.83	98.48
22 13 29 16-0009    EA    1-1/2 HP Submersible Sewage Pump, 230 Volt, 1 Or 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,221.10	158.74
22 13 29 16-0010    EA    2 HP Submersible Sewage Pump, 230 Volt, 1 Or 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,362.69	194.02
<b>22 13 29 16-0011</b> <b>Submersible Sewage Pumps With Semi-Open Impeller</b> <small>(22 13 29 16)</small>		
22 13 29 16-0012    EA    1 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	1,667.28	98.48
22 13 29 16-0013    EA    1.5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	1,839.56	144.01
22 13 29 16-0014    EA    2 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	2,370.10	176.01
22 13 29 16-0015    EA    3 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	2,759.91	213.34
22 13 29 16-0016    EA    5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	3,216.41	250.68
22 13 29 16-0017    EA    7.5 HP Submersible Sewage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller .....	3,373.95	288.01
<b>22 13 29 16-0018</b> <b>Submersible Sewage Pumps Accessories</b> <small>(22 13 29 16)</small>		
22 13 29 16-0019    EA    Simplex Single Phase Plug In Controller With NEMA 4X Enclosure For Non-Automatic Submersible Sewage Pump.....	326.02	80.81
Note: Includes alarm horn, warning light, and single control float switches.		
22 13 29 16-0020    EA    Simplex Single Phase Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump .....	728.20	107.76
Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0021    EA    Simplex Three Phase Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump .....	931.32	107.76
Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0022    EA    Duplex Alarm System And Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewage Pump .....	1,046.07	134.69
Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0023    EA    High-water Alarm For Submersible Sewage Pump.....	247.39	53.87
22 13 29 16-0024    EA    Float Switch For Submersible Sewage Pump.....	95.94	26.94

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 13</b>	<b>Facility Sanitary Sewerage</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 29 16-0025 EA Rail System With 2" Discharge For Submersible Sewage Pump .....	455.51	80.81
<b>22 13 29 33 Sewerage Pump Basins And Pits (22 13 29)</b>		
<b>22 13 29 33-0001 Sewage Sump Pump Basin (22 13 29 33)</b>		
<b>22 13 29 33-0002 High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)</b>		
22 13 29 33-0003 EA 18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....	118.74	
22 13 29 33-0004 EA 18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....	150.53	
22 13 29 33-0005 EA 24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....	322.07	
22 13 29 33-0006 EA 24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....	446.15	
22 13 29 33-0007 EA 30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....	570.23	
22 13 29 33-0008 EA 36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub .....	661.34	
<b>22 13 29 33-0009 Fiberglass Basin (22 13 29 33-0001)</b>		
22 13 29 33-0010 EA 18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub .....	200.83	
22 13 29 33-0011 EA 24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub .....	378.23	
22 13 29 33-0012 EA 30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub .....	657.29	
22 13 29 33-0013 EA 36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub .....	873.60	
22 13 29 33-0014 EA 36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub .....	1,002.88	
22 13 29 33-0015 EA 36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub .....	1,059.48	
22 13 29 33-0016 EA 36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub .....	1,238.94	
22 13 29 33-0017 EA 48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub .....	1,436.10	
<b>22 14 Facility Storm Drainage (22 10)</b>		
<b>22 14 13 Facility Storm Drainage Piping (22 14)</b>		
See CSI section 22 13 16 00-0000 for storm drainage piping.		
<b>22 14 26 Facility Storm Drains (22 14)</b>		
<b>22 14 26 13 Roof Drains (22 14 26)</b>		
<b>22 14 26 13-0001 Cast Iron Roof Drains (22 14 26 13)</b>		
<b>22 14 26 13-0002 Cast Iron Roof Drains With Large Polypropylene Dome (22 14 26 13-0001)</b>		
Note: Dome free area is 124 square inches.		
22 14 26 13-0003 EA 15" Diameter Cast Iron Roof Drain With 2" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	564.45	180.41
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0004 EA 15" Diameter Cast Iron Roof Drain With 3" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	654.64	216.45
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0005 EA 15" Diameter Cast Iron Roof Drain With 4" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	744.83	270.56
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0006 EA 15" Diameter Cast Iron Roof Drain With 5" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	967.61	324.68
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0007 EA 15" Diameter Cast Iron Roof Drain With 6" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	1,012.70	360.72
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0008 EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	1,135.67	378.79
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0009 EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, 124 Square Inch Free Area Polypropylene Dome .....	1,381.10	392.32
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Bronze Dome, Add	170.50	
For Drain Receiver, Add	75.50	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
<b>22 14 26 13-0010 Cast Iron Roof Drains With Expansion Joint (22 14 26 13-0001)</b>		
Note: With polypropylene dome. Dome free area is 124 square inches.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26	13-0011	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 2" Outlet, Polypropylene Dome	754.85	180.41
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp, Add</i>	50.00	
			<i>For Drain Receiver, Add</i>	56.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	136.00	
22 14 26	13-0012	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 3" Outlet, Polypropylene Dome	858.34	216.45
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp, Add</i>	50.00	
			<i>For Drain Receiver, Add</i>	56.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	136.00	
22 14 26	13-0013	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 4" Outlet, Polypropylene Dome	974.43	270.56
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp, Add</i>	50.00	
			<i>For Drain Receiver, Add</i>	56.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	136.00	
22 14 26	13-0014	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 5" Outlet, Polypropylene Dome	1,301.51	324.68
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp, Add</i>	50.00	
			<i>For Drain Receiver, Add</i>	56.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	136.00	
22 14 26	13-0015	EA	15" Diameter Cast Iron Roof Drain With Expansion Joint, 6" Outlet, Polypropylene Dome	1,394.90	360.72
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp, Add</i>	50.00	
			<i>For Drain Receiver, Add</i>	56.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	136.00	
<b>22 14 26 13-0016 Cast Iron Roof Drains With Flat Bronze Promenade Top</b> <small>(22 14 26 13-0001)</small>					
22 14 26	13-0017	EA	14" x 14" Cast Iron Roof Drain With 2" Outlet, Bronze Promenade Top	942.45	180.41
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp, Add</i>	50.00	
			<i>For Drain Receiver, Add</i>	75.50	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	136.00	
22 14 26	13-0018	EA	14" x 14" Cast Iron Roof Drain With 3" Outlet, Bronze Promenade Top	1,032.64	216.45
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp, Add</i>	50.00	
			<i>For Drain Receiver, Add</i>	75.50	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	136.00	
22 14 26	13-0019	EA	14" x 14" Cast Iron Roof Drain With 4" Outlet, Bronze Promenade Top	1,122.83	270.56
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp, Add</i>	50.00	
			<i>For Drain Receiver, Add</i>	75.50	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	136.00	
22 14 26	13-0020	EA	14" x 14" Cast Iron Roof Drain With 5" Outlet, Bronze Promenade Top	1,340.01	324.68
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp, Add</i>	50.00	
			<i>For Drain Receiver, Add</i>	75.50	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	136.00	
22 14 26	13-0021	EA	14" x 14" Cast Iron Roof Drain With 6" Outlet, Bronze Promenade Top	1,385.10	360.72
			<i>For Galvanized Iron Parts, Add</i>	197.00	
			<i>For Deck Clamp, Add</i>	50.00	
			<i>For Drain Receiver, Add</i>	75.50	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	136.00	
<b>22 14 26 13-0022 Cast Iron Scupper Drain With L-Shaped Bronze Grate</b> <small>(22 14 26 13-0001)</small>					
22 14 26	13-0023	EA	Cast Iron Scupper Drain With 2" Outlet, L-Shaped Bronze Grate	551.70	72.19
			<i>For Vandal Proof Grate, Add</i>	11.00	
			<i>For Galvanized Iron Parts, Add</i>	49.00	
22 14 26	13-0024	EA	Cast Iron Scupper Drain With 3" Outlet, L-Shaped Bronze Grate	587.78	90.15
			<i>For Vandal Proof Grate, Add</i>	11.00	
			<i>For Galvanized Iron Parts, Add</i>	49.00	
22 14 26	13-0025	EA	Cast Iron Scupper Drain With 4" Outlet, L-Shaped Bronze Grate	604.17	98.38
			<i>For Vandal Proof Grate, Add</i>	11.00	
			<i>For Galvanized Iron Parts, Add</i>	98.00	
22 14 26	13-0026	EA	Cast Iron Scupper Drain With 5" Outlet, L-Shaped Bronze Grate	839.68	130.41
			<i>For Vandal Proof Grate, Add</i>	11.00	
			<i>For Galvanized Iron Parts, Add</i>	98.00	
22 14 26	13-0027	EA	Cast Iron Scupper Drain With 6" Outlet, L-Shaped Bronze Grate	897.21	159.20
			<i>For Vandal Proof Grate, Add</i>	11.00	
			<i>For Galvanized Iron Parts, Add</i>	98.00	
<b>22 14 26 13-0028 Cast Iron Roof Drain With Flat Cast Iron Grate</b> <small>(22 14 26 13-0001)</small>					
Note: Grate free area is 27 square inches.					
22 14 26	13-0029	EA	9" x 9" Cast Iron Roof Drain With 2" Outlet, Cast Iron Promenade Top	596.65	180.41
			<i>For Galvanized Iron Parts, Add</i>	55.00	
			<i>For Bronze Grate, Add</i>	78.50	
			<i>For Deck Clamp, Add</i>	31.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	72.00	
22 14 26	13-0030	EA	9" x 9" Cast Iron Roof Drain With 3" Outlet, Cast Iron Promenade Top	686.84	216.45
			<i>For Galvanized Iron Parts, Add</i>	55.00	
			<i>For Bronze Grate, Add</i>	78.50	
			<i>For Deck Clamp, Add</i>	31.00	
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	72.00	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 14</b>	<b>Facility Storm Drainage</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0031 EA 9" x 9" Cast Iron Roof Drain With 4" Outlet, Cast Iron Promenade Top.....	777.03	270.56
For Galvanized Iron Parts, Add	55.00	
For Bronze Grate, Add	78.50	
For Deck Clamp, Add	31.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	72.00	
<b>22 14 26 13-0032 Cast Iron Roof Drains With Large Cast Iron Dome (22 14 26 13-0001)</b>		
22 14 26 13-0033 EA 15" Diameter Cast Iron Roof Drain With 2" Outlet, Cast Iron Dome.....	624.65	180.41
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Drain Receiver, Add	56.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0034 EA 15" Diameter Cast Iron Roof Drain With 3" Outlet, Cast Iron Dome.....	714.84	216.45
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Drain Receiver, Add	56.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0035 EA 15" Diameter Cast Iron Roof Drain With 4" Outlet, Cast Iron Dome.....	805.03	270.56
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Drain Receiver, Add	56.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0036 EA 15" Diameter Cast Iron Roof Drain With 5" Outlet, Cast Iron Dome.....	1,027.81	324.68
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Drain Receiver, Add	56.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0037 EA 15" Diameter Cast Iron Roof Drain With 6" Outlet, Cast Iron Dome.....	1,072.90	360.72
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Drain Receiver, Add	56.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0038 EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, Cast Iron Dome.....	1,195.87	378.79
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Drain Receiver, Add	56.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0039 EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, Cast Iron Dome.....	1,441.30	392.32
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Drain Receiver, Add	56.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
<b>22 14 26 13-0040 Aluminum Roof Drains (22 14 26 13)</b>		
<b>22 14 26 13-0041 Aluminum Dome Roof Drains (22 14 26 13-0040)</b>		
22 14 26 13-0042 EA 15" Diameter Roof Drain With 2" Outlet, Aluminum Dome.....	635.15	180.41
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Drain Receiver, Add	56.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0043 EA 15" Diameter Roof Drain With 3" Outlet, Aluminum Dome.....	725.34	216.45
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Drain Receiver, Add	56.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0044 EA 15" Diameter Roof Drain With 4" Outlet, Aluminum Dome.....	815.53	270.56
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Drain Receiver, Add	56.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0045 EA 15" Diameter Roof Drain With 6" Outlet, Aluminum Dome.....	1,083.40	360.39
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Drain Receiver, Add	56.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0046 EA 15" Diameter Roof Drain With 8" Outlet, Aluminum Dome.....	1,206.58	378.79
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Drain Receiver, Add	56.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
22 14 26 13-0047 EA 15" Diameter Roof Drain With 10" Outlet, Aluminum Dome.....	1,451.80	392.32
For Galvanized Iron Parts, Add	197.00	
For Deck Clamp, Add	50.00	
For Drain Receiver, Add	56.00	
For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add	136.00	
<b>22 14 26 13-0048 Retrofit Roof Drains (22 14 26 13)</b>		
<b>22 14 26 13-0049 Copolymer Retrofit Roof Drains With Copolymer Strainer Dome (22 14 26 13-0048)</b>		
22 14 26 13-0050 EA Copolymer Retrofit 3" Roof Drains, With Copolymer Dome.....	658.60	216.45
22 14 26 13-0051 EA Copolymer Retrofit 4" Roof Drains, With Copolymer Dome.....	756.78	270.56



<b>Plumbing</b>	<b>22</b>
<b>Plumbing Piping</b>	<b>22 10</b>
<b>Facility Storm Drainage</b>	<b>22 14</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0052 EA Copolymer Retrofit 5" Roof Drains, With Copolymer Dome .....	924.01	324.68
22 14 26 13-0053 EA Copolymer Retrofit 6" Roof Drains, With Copolymer Dome .....	1,001.04	360.39
<b>22 14 26 13-0054 Copolymer Retrofit Roof Drains With Cast Aluminum Strainer Dome</b> (22 14 26 13-0048)		
22 14 26 13-0055 EA Copolymer Retrofit Drain, 3", With Cast Aluminum Dome .....	730.48	216.45
22 14 26 13-0056 EA Copolymer Retrofit Drain, 4", With Cast Aluminum Dome .....	825.47	270.56
22 14 26 13-0057 EA Copolymer Retrofit Drain, 5", With Cast Aluminum Dome .....	997.49	324.68
22 14 26 13-0058 EA Copolymer Retrofit Drain, 6", With Cast Aluminum Dome .....	1,052.16	360.39
<b>22 14 26 13-0059 Aluminum Retrofit Roof Drains With Cast Aluminum Strainer Dome</b> (22 14 26 13-0048)		
22 14 26 13-0060 EA Aluminum Retrofit 3" Roof Drains, With Cast Aluminum Dome .....	661.80	216.45
<i>For Copolymer Strainer Dome, Deduct</i>	-24.00	
22 14 26 13-0061 EA Aluminum Retrofit 4" Roof Drains, With Cast Aluminum Dome .....	759.97	270.56
<i>For Copolymer Strainer Dome, Deduct</i>	-24.00	
22 14 26 13-0062 EA Aluminum Retrofit 5" Roof Drains, With Cast Aluminum Dome .....	927.20	324.68
<i>For Copolymer Strainer Dome, Deduct</i>	-24.00	
22 14 26 13-0063 EA Aluminum Retrofit 6" Roof Drains, With Cast Aluminum Dome .....	978.68	360.39
<i>For Copolymer Strainer Dome, Deduct</i>	-24.00	
<b>22 14 26 13-0064 Bronze Downspout Nozzles</b> (22 14 26 13)		
22 14 26 13-0065 EA 2" Outlet, Bronze Roof Drain Downspout Nozzle.....	372.71	108.23
22 14 26 13-0066 EA 3" Outlet, Bronze Roof Drain Downspout Nozzle.....	372.71	108.23
22 14 26 13-0067 EA 4" Outlet, Bronze Roof Drain Downspout Nozzle.....	372.71	108.23
22 14 26 13-0068 EA 5" Outlet, Bronze Roof Drain Downspout Nozzle.....	551.89	135.29
22 14 26 13-0069 EA 6" Outlet, Bronze Roof Drain Downspout Nozzle.....	551.89	135.29
22 14 26 13-0070 EA 8" Outlet, Bronze Roof Drain Downspout Nozzle.....	682.87	135.29
<b>22 14 26 16 Facility Area Drains</b> (22 14 26)		
<b>22 14 26 16-0001 Area Drain</b> (22 14 26 16)		
22 14 26 16-0002 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer .....	1,004.76	130.30
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	101.50	
22 14 26 16-0003 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer .....	1,032.85	144.37
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	101.50	
22 14 26 16-0004 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer .....	1,062.41	159.20
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	101.50	
22 14 26 16-0005 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer .....	1,093.21	174.57
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	101.50	
22 14 26 16-0006 EA 12" x 12" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer .....	689.06	130.30
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	101.50	
22 14 26 16-0007 EA 12" x 12" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer .....	717.15	144.37
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	101.50	
22 14 26 16-0008 EA 12" x 12" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer .....	746.71	159.20
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	101.50	
22 14 26 16-0009 EA 12" x 12" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer .....	777.51	174.57
<i>For Ductile Iron Grate, Add</i>	123.50	
<i>For Vandal Proof Screws, Add</i>	29.50	
<i>For Primer Tap, Add</i>	36.00	
<i>For Galvanized Cast Iron Parts, Add</i>	101.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0010	EA		12" x 12" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	950.16	130.30
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	101.50	
22 14 26 16-0011	EA		12" x 12" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	978.25	144.37
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	101.50	
22 14 26 16-0012	EA		12" x 12" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,007.81	159.20
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	101.50	
22 14 26 16-0013	EA		12" x 12" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,038.61	174.57
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	101.50	
22 14 26 16-0014	EA		16" x 16" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,839.16	130.30
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0015	EA		16" x 16" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,867.25	144.37
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0016	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,896.81	159.20
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0017	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,927.61	174.57
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0018	EA		16" x 16" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	992.16	130.30
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0019	EA		16" x 16" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,020.25	144.37
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0020	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,049.81	159.20
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0021	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,080.61	174.57
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0022	EA		16" x 16" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,753.06	130.30
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0023	EA		16" x 16" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,781.15	144.37
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0024	EA		16" x 16" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,810.71	159.20
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	
22 14 26 16-0025	EA		16" x 16" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer.....	1,841.51	174.57
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	



	<b>Plumbing</b>	<b>22</b>
	<b>Plumbing Piping</b>	<b>22 10</b>
	<b>Facility Storm Drainage</b>	<b>22 14</b>

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0026	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	549.76	130.30
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0027	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	577.85	144.37
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0028	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	607.41	159.20
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0029	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	405.56	130.30
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0030	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	433.65	144.37
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0031	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	463.21	159.20
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0032	EA		9" Diameter Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	528.76	130.30
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0033	EA		9" Diameter Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	556.85	144.37
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0034	EA		9" Diameter Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots.....	586.41	159.20
			<i>For Galvanized Cast Iron Parts, Add</i>	87.50	
			<i>For Vandal Proof Grate, Add</i>	30.50	
22 14 26 16-0035	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	1,286.86	130.30
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	205.00	
22 14 26 16-0036	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	1,314.95	144.37
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	205.00	
22 14 26 16-0037	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	1,344.51	159.20
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	205.00	
22 14 26 16-0038	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	901.16	130.30
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	205.00	
22 14 26 16-0039	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	929.25	144.37
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	205.00	
22 14 26 16-0040	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	958.81	159.20
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	205.00	
22 14 26 16-0041	EA		12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	1,219.66	130.30
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	205.00	
22 14 26 16-0042	EA		12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	1,247.75	144.37
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	205.00	
22 14 26 16-0043	EA		12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer.....	1,277.31	159.20
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	126.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	205.00	

**22 14 26 19 Facility Trench Drains (22 14 26)**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0001			<b>Trench Drain</b> <small>(22 14 26 19)</small> Note: Each section is 39.4" in length.		
22 14 26 19-0002	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	750.76	130.30
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	65.50	
22 14 26 19-0003	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	778.85	144.37
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	65.50	
22 14 26 19-0004	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	808.41	159.20
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	65.50	
22 14 26 19-0005	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	497.64	130.30
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	65.50	
22 14 26 19-0006	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	525.73	144.37
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	65.50	
22 14 26 19-0007	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	555.29	159.20
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	65.50	
22 14 26 19-0008	EA		6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	716.27	130.30
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	65.50	
22 14 26 19-0009	EA		6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	744.36	144.37
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	65.50	
22 14 26 19-0010	EA		6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	773.92	159.20
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	65.50	
22 14 26 19-0011	EA		6" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	619.89	64.93
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	65.50	
22 14 26 19-0012	EA		6" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	366.77	64.93
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	65.50	
22 14 26 19-0013	EA		6" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	585.40	64.93
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	65.50	
22 14 26 19-0014	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,129.60	130.30
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0015	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,157.69	144.37
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0016	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,187.25	159.20
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0017	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	816.40	130.30
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0018	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	844.49	144.37
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0019	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	874.05	159.20
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0020	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,086.77	130.30
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0021	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,114.86	144.37
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0022	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,144.42	159.20
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0023	EA		12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	962.71	130.30
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0024	EA		12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	990.80	144.37
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0025	EA		12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	1,020.36	159.20
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0026	EA		12" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	998.71	64.93
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0027	EA		12" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	685.51	64.93
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0028	EA		12" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	955.88	64.93
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	

<b>22</b>	<b>Plumbing</b>
<b>22 10</b>	<b>Plumbing Piping</b>
<b>22 14</b>	<b>Facility Storm Drainage</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 19-0029 EA 12" Wide Trench Drain x 15" Extension Section, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots.....	831.82	64.93
For Vandal Proof Screws, Add	48.50	
For Ductile Iron Grate, Add	181.50	
For Convex Grate On Cast Iron Or Ductile Price, Add	38.50	
<b>22 14 29 Sump Pumps (22 14)</b>		
See CSI section 22 11 16 00-0000 for pipe extensions into well.		
<b>22 14 29 13 Wet-Pit-Mounted, Vertical Sump Pumps (22 14 29)</b>		
<b>22 14 29 13-0001 Vertical Mounted Sump Pumps (22 14 29 13)</b>		
Note: Mounted on steel support plate and supplied with cast iron strainer, 1750 RPM drip-proof motor, 5' column sections.		
22 14 29 13-0002 EA 1 HP Vertical Mounted Cast Iron Sump Pump, 1-1/2" Discharge, Single Stage, 25 GPM 40' Head.....	3,269.87	313.97
For Explosion Proof Motor, Add	239.83	
22 14 29 13-0003 EA 1-1/2 HP Vertical Mounted Cast Iron Sump Pump, 2" Discharge, Single Stage, 75 GPM 40' Head.....	3,533.68	380.02
For Explosion Proof Motor, Add	266.62	
22 14 29 13-0004 EA 2 HP Vertical Mounted Cast Iron Sump Pump, 2-1/2" Discharge, Single Stage, 100 GPM 40' Head.....	4,066.13	451.47
For Explosion Proof Motor, Add	344.44	
22 14 29 13-0005 EA 3 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 150 GPM 40' Head.....	4,454.63	555.41
For Explosion Proof Motor, Add	390.36	
22 14 29 13-0006 EA 5 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 200 GPM 40' Head.....	4,731.60	601.96
For Explosion Proof Motor, Add	570.24	
22 14 29 13-0007 EA 10 HP Vertical Mounted Cast Iron Sump Pump, 4" Discharge, Single Stage, 300 GPM 70' Head.....	5,624.69	722.13
For Explosion Proof Motor, Add	646.78	
22 14 29 13-0008 EA 15 HP Vertical Mounted Cast Iron Sump Pump, 5" Discharge, Single Stage, 500 GPM 70' Head.....	6,272.30	698.36
For Explosion Proof Motor, Add	1,060.11	
22 14 29 13-0009 EA 20 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 800 GPM 70' Head.....	7,625.99	832.67
For Explosion Proof Motor, Add	1,407.10	
22 14 29 13-0010 EA 30 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 1,000 GPM 70' Head.....	8,348.51	971.10
For Explosion Proof Motor, Add	1,824.25	
22 14 29 13-0011 EA 50 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 1,600 GPM 70' Head.....	10,990.43	1,165.73
For Explosion Proof Motor, Add	2,376.63	
22 14 29 13-0012 EA 60 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 2,000 GPM 70' Head.....	14,715.21	1,294.79
For Explosion Proof Motor, Add	3,767.14	
<b>22 14 29 13-0013 Extra Column Assemblies (22 14 29 13)</b>		
22 14 29 13-0014 EA 1-1/2" Diameter x 5' Long Extra Column Assembly.....	442.12	
22 14 29 13-0015 EA 2" Diameter x 5' Long Extra Column Assembly.....	483.78	
22 14 29 13-0016 EA 2-1/2" Diameter x 5' Long Extra Column Assembly.....	519.49	
22 14 29 13-0017 EA 3" Diameter x 5' Long Extra Column Assembly.....	635.61	
22 14 29 13-0018 EA 4" Diameter x 5' Long Extra Column Assembly.....	710.45	
22 14 29 13-0019 EA 5" Diameter x 5' Long Extra Column Assembly.....	709.88	
22 14 29 13-0020 EA 6" Diameter x 5' Long Extra Column Assembly.....	812.07	
22 14 29 13-0021 EA 8" Diameter x 5' Long Extra Column Assembly.....	888.60	
<b>22 14 29 13-0022 Float Switch (22 14 29 13)</b>		
22 14 29 13-0023 EA For Float Switch Copper Coated Float, General Purpose.....	543.43	34.09
22 14 29 13-0024 EA For Float Switch Copper Coated Float, Weatheright.....	567.45	34.09
22 14 29 13-0025 EA For Float Switch Copper Coated Float, Explosion Proof.....	578.53	34.09
<b>22 14 29 13-0026 Support Plate (22 14 29 13)</b>		
22 14 29 13-0027 EA 24" Steel Support Plate, Round Or Square.....	492.03	43.29
22 14 29 13-0028 EA 30" Steel Support Plate, Round Or Square.....	545.06	48.70
22 14 29 13-0029 EA 36" Steel Support Plate, Round Or Square.....	754.07	64.93
22 14 29 13-0030 EA 40" Steel Support Plate, Round Or Square.....	1,078.65	75.76
22 14 29 13-0031 EA 42" Steel Support Plate, Round Or Square.....	1,153.90	78.46
22 14 29 13-0032 EA 48" Steel Support Plate, Round Or Square.....	1,231.70	81.17
22 14 29 13-0033 EA 54" Steel Support Plate, Round Or Square.....	1,564.09	97.41
22 14 29 13-0034 EA 60" Steel Support Plate, Round Or Square.....	2,098.26	108.23
22 14 29 13-0035 EA 72" Steel Support Plate, Round Or Square.....	2,795.17	135.29
22 14 29 13-0036 EA 84" Steel Support Plate, Round Or Square.....	3,362.44	148.81
<b>22 14 29 16 Submersible Sump Pumps (22 14 29)</b>		
Note: Includes 25' of cord with pumps unless otherwise noted.		
<b>22 14 29 16-0001 Submersible Sump Pump With Vortex Impeller (22 14 29 16)</b>		
<b>22 14 29 16-0002 Submersible Sump Pump With Cast Iron Vortex Impeller (22 14 29 16-0001)</b>		
22 14 29 16-0003 EA 1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	341.14	70.55
22 14 29 16-0004 EA 1/3 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	370.03	70.55
22 14 29 16-0005 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	508.70	74.67
22 14 29 16-0006 EA 1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	542.44	74.67



	<b>Plumbing</b> <b>22</b>	
	Plumbing Piping <b>22 10</b>	<b>22</b>
	Facility Storm Drainage <b>22 14</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>22 14 29 16-0007</b> Submersible Sump Pump With Bronze Vortex Impeller <small>(22 14 29 16-0001)</small>		
22 14 29 16-0008 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	762.57	74.67
22 14 29 16-0009 EA 1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	820.76	74.67
22 14 29 16-0010 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	867.07	82.31
22 14 29 16-0011 EA 1 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	927.29	82.31
22 14 29 16-0012 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	978.03	94.07
22 14 29 16-0013 EA 1-1/2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,038.26	94.07
22 14 29 16-0014 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,064.94	111.71
22 14 29 16-0015 EA 2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,114.58	111.71
<b>22 14 29 16-0016</b> Submersible Sump Pump With Semi-Open Impeller <small>(22 14 29 16)</small>		
22 14 29 16-0017 EA 1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller.....	744.03	70.55
22 14 29 16-0018 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller.....	843.95	74.67
22 14 29 16-0019 EA 3/4 HP Manual Submersible Sump Pump, 230 Volt, 1 Or 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller.....	994.74	78.79
22 14 29 16-0020 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Or 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller.....	1,050.58	82.31
22 14 29 16-0021 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Or 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller.....	1,198.61	94.07
22 14 29 16-0022 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Or 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller.....	1,396.54	111.71
<b>22 14 29 19</b> Sump-Pump Basins and Pits <small>(22 14 29)</small> See CSI section 22 13 29 33-0000 for basins and pits.		
<b>22 15</b> General Service Compressed-Air Systems <small>(22 10)</small>		
<b>22 15 13</b> General Service Compressed-Air Piping <small>(22 15)</small>		
<b>22 15 13 00-0001</b> Quick Disconnect, Air-Service <small>(22 15 13)</small>		
<b>22 15 13 00-0002</b> Combination Steel And Brass <small>(22 15 13 00-0001)</small>		
22 15 13 00-0003 EA 1/2" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	49.63	16.47
22 15 13 00-0004 EA 3/4" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket.....	54.47	19.99
<b>22 15 13 00-0005</b> Refrigerated Air Dryers With Ambient Air Filters <small>(22 15 13)</small>		
22 15 13 00-0006 EA 3 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	679.68	87.54
22 15 13 00-0007 EA 5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	770.99	89.97
22 15 13 00-0008 EA 7.5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	977.60	92.40
22 15 13 00-0009 EA 10 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,135.89	97.27
22 15 13 00-0010 EA 15 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,263.94	109.43
22 15 13 00-0011 EA 20 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,403.74	124.50
22 15 13 00-0012 EA 30 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	1,985.46	158.05
22 15 13 00-0013 EA 40 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,234.66	184.80
22 15 13 00-0014 EA 50 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,428.62	197.45
22 15 13 00-0015 EA 60 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,640.46	218.84
22 15 13 00-0016 EA 75 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	2,973.09	243.17
22 15 13 00-0017 EA 85 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,308.60	267.48
22 15 13 00-0018 EA 100 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	3,485.64	296.66
22 15 13 00-0019 EA 125 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	4,058.91	316.11
22 15 13 00-0020 EA 175 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	4,878.99	328.27
22 15 13 00-0021 EA 200 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	5,752.41	340.43
22 15 13 00-0022 EA 250 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	6,387.39	352.59
22 15 13 00-0023 EA 300 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	6,951.44	364.75
22 15 13 00-0024 EA 400 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	7,765.57	389.06
22 15 13 00-0025 EA 500 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	9,081.66	486.33
22 15 13 00-0026 EA 600 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	11,478.95	583.59
22 15 13 00-0027 EA 800 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	12,795.05	680.86
22 15 13 00-0028 EA 1,000 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters.....	15,049.63	778.13
<b>22 15 13 00-0029</b> Oil And Water Separator For Air Compressor <small>(22 15 13)</small>		
22 15 13 00-0030 EA 0-60 SCFM Oil/Water Separator.....	628.53	37.64
22 15 13 00-0031 EA 85 SCFM Oil/Water Separator.....	840.74	44.11
22 15 13 00-0032 EA 190 SCFM Oil/Water Separator.....	982.23	49.99
22 15 13 00-0033 EA 245 SCFM Oil/Water Separator.....	1,231.98	58.81
22 15 13 00-0034 EA 320 SCFM Oil/Water Separator.....	1,464.54	70.57

**22 Plumbing****22 10 Plumbing Piping****22 15 General Service Compressed-Air Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0035 EA 700 SCFM Oil/Water Separator.....	2,953.80	147.03
<b>22 15 13 00-0036 Heavy Duty Industrial Pressure Regulator (22 15 13)</b>		
22 15 13 00-0037 EA 3/8" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	111.70	29.18
22 15 13 00-0038 EA 1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	155.66	38.90
22 15 13 00-0039 EA 3/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	262.77	48.64
22 15 13 00-0040 EA 1" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	331.58	72.95
22 15 13 00-0041 EA 1-1/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	460.47	85.10
22 15 13 00-0042 EA 1-1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output.....	484.78	97.27
<b>22 15 13 00-0043 Combination Air System; Filter Regulator Lubricator (22 15 13)</b>		
22 15 13 00-0044 EA 3/8" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter.....	420.14	87.54
22 15 13 00-0045 EA 1/2" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter.....	521.75	116.72
<b>22 15 13 00-0046 Heatless Desiccant Air Dryers (22 15 13)</b>		
22 15 13 00-0047 EA 5 SCFM Heatless Desiccant Air Dryer.....	2,399.04	87.54
22 15 13 00-0048 EA 10 SCFM Heatless Desiccant Air Dryer.....	2,883.11	97.27
22 15 13 00-0049 EA 15 SCFM Heatless Desiccant Air Dryer.....	2,912.66	106.99
22 15 13 00-0050 EA 20 SCFM Heatless Desiccant Air Dryer.....	3,326.80	121.58
22 15 13 00-0051 EA 30 SCFM Heatless Desiccant Air Dryer.....	4,579.12	145.90
22 15 13 00-0052 EA 50 SCFM Heatless Desiccant Air Dryer.....	4,530.78	194.53
22 15 13 00-0053 EA 85 SCFM Heatless Desiccant Air Dryer.....	6,082.62	243.17
22 15 13 00-0054 EA 100 SCFM Heatless Desiccant Air Dryer.....	6,460.70	291.80
22 15 13 00-0055 EA 125 SCFM Heatless Desiccant Air Dryer.....	7,397.56	340.43
22 15 13 00-0056 EA 175 SCFM Heatless Desiccant Air Dryer.....	8,494.29	389.06
22 15 13 00-0057 EA 200 SCFM Heatless Desiccant Air Dryer.....	9,131.44	437.70
22 15 13 00-0058 EA 300 SCFM Heatless Desiccant Air Dryer.....	11,157.56	486.33
22 15 13 00-0059 EA 400 SCFM Heatless Desiccant Air Dryer.....	12,401.58	583.59
22 15 13 00-0060 EA 500 SCFM Heatless Desiccant Air Dryer.....	14,334.68	680.86
22 15 13 00-0061 EA 600 SCFM Heatless Desiccant Air Dryer.....	16,538.80	778.13
<b>22 15 13 00-0062 Air Cooled Aftercoolers (22 15 13)</b>		
22 15 13 00-0063 EA 20 SCFM Air-Cooled Aftercooler.....	611.74	60.79
22 15 13 00-0064 EA 35 SCFM Air-Cooled Aftercooler.....	824.89	72.95
22 15 13 00-0065 EA 43 SCFM Air-Cooled Aftercooler.....	906.88	85.10
22 15 13 00-0066 EA 70 SCFM Air-Cooled Aftercooler.....	1,107.06	97.27
22 15 13 00-0067 EA 125 SCFM Air-Cooled Aftercooler.....	1,537.90	109.43
22 15 13 00-0068 EA 185 SCFM Air-Cooled Aftercooler.....	1,726.58	121.58
22 15 13 00-0069 EA 260 SCFM Air-Cooled Aftercooler.....	3,328.39	145.90
22 15 13 00-0070 EA 365 SCFM Air-Cooled Aftercooler.....	3,482.54	170.22
22 15 13 00-0071 EA 560 SCFM Air-Cooled Aftercooler.....	3,635.54	194.53
22 15 13 00-0072 EA 650 SCFM Air-Cooled Aftercooler.....	4,261.98	218.84
22 15 13 00-0073 EA 750 SCFM Air-Cooled Aftercooler.....	4,660.05	243.17
22 15 13 00-0074 EA 900 SCFM Air-Cooled Aftercooler.....	5,341.83	267.48
22 15 13 00-0075 EA 1,100 SCFM Air-Cooled Aftercooler.....	6,849.36	291.80
22 15 13 00-0076 EA 1,460 SCFM Air-Cooled Aftercooler.....	7,831.58	316.11
22 15 13 00-0077 EA 1,800 SCFM Air-Cooled Aftercooler.....	8,089.24	340.43
22 15 13 00-0078 EA 2,500 SCFM Air-Cooled Aftercooler.....	8,674.15	364.75
<b>22 15 13 00-0079 Compressed Air Coalescing Filters (22 15 13)</b>		
<b>22 15 13 00-0080 1.0 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0079)</b>		
22 15 13 00-0081 EA 10 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating.....	220.62	38.23
22 15 13 00-0082 EA 20 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating.....	260.98	38.23
22 15 13 00-0083 EA 50 SCFM, 1/2", Coalescing Filter, 1.0 Micron Filter Rating.....	285.72	44.11
22 15 13 00-0084 EA 75 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating.....	328.93	50.58
22 15 13 00-0085 EA 100 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating.....	382.76	55.87
22 15 13 00-0086 EA 140 SCFM, 1", Coalescing Filter, 1.0 Micron Filter Rating.....	435.11	67.63
22 15 13 00-0087 EA 175 SCFM, 1-1/4" Coalescing Filter, 1.0 Micron Filter Rating.....	478.42	73.51
22 15 13 00-0088 EA 250 SCFM, 1-1/2" Coalescing Filter, 1.0 Micron Filter Rating.....	568.55	88.22
22 15 13 00-0089 EA 280 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating.....	731.15	117.62
22 15 13 00-0090 EA 350 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating.....	835.52	132.32
<b>22 15 13 00-0091 0.01 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0079)</b>		
22 15 13 00-0092 EA 16 SCFM, 3/8" Coalescing Filter, 0.01 Micron Filter Rating.....	266.75	38.23
22 15 13 00-0093 EA 30 SCFM, 1/2" Coalescing Filter, 0.01 Micron Filter Rating.....	290.02	44.11
22 15 13 00-0094 EA 60 SCFM, 3/4" Coalescing Filter, 0.01 Micron Filter Rating.....	332.97	50.58
22 15 13 00-0095 EA 100 SCFM, 1" Coalescing Filter, 0.01 Micron Filter Rating.....	390.83	49.99
22 15 13 00-0096 EA 140 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating.....	444.34	67.63
22 15 13 00-0097 EA 180 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating.....	503.11	73.51
22 15 13 00-0098 EA 250 SCFM, 1-1/2" Coalescing Filter, 0.01 Micron Filter Rating.....	578.92	88.22
22 15 13 00-0099 EA 280 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating.....	748.45	117.62
22 15 13 00-0100 EA 350 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating.....	858.59	132.32



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0101				<b>Compressed Air Storage Tanks</b> (22 15 13)		
22 15 13 00-0102				<b>Horizontal Compressed Air Storage Tanks</b> (22 15 13 00-0101)		
22 15 13 00-0103	EA			12 Gallon Horizontal Compressed Air Storage Tank, ASME .....	357.45	77.81
22 15 13 00-0104	EA			15 Gallon Horizontal Compressed Air Storage Tank, ASME .....	502.68	85.10
22 15 13 00-0105	EA			20 Gallon Horizontal Compressed Air Storage Tank, ASME .....	532.21	89.48
22 15 13 00-0106	EA			30 Gallon Horizontal Compressed Air Storage Tank, ASME .....	604.08	97.27
22 15 13 00-0107	EA			60 Gallon Horizontal Compressed Air Storage Tank, ASME .....	791.03	131.30
22 15 13 00-0108	EA			80 Gallon Horizontal Compressed Air Storage Tank, ASME .....	947.78	145.90
22 15 13 00-0109	EA			120 Gallon Horizontal Compressed Air Storage Tank, ASME .....	1,394.13	170.22
22 15 13 00-0110	EA			200 Gallon Horizontal Compressed Air Storage Tank, ASME .....	2,045.35	194.53
22 15 13 00-0111	EA			240 Gallon Horizontal Compressed Air Storage Tank, ASME .....	2,274.58	206.69
22 15 13 00-0112	EA			325 Gallon Horizontal Compressed Air Storage Tank, ASME .....	3,242.85	218.84
22 15 13 00-0113	EA			400 Gallon Horizontal Compressed Air Storage Tank, ASME .....	4,253.75	255.32
22 15 13 00-0114	EA			660 Gallon Horizontal Compressed Air Storage Tank, ASME .....	6,083.19	303.96
22 15 13 00-0115				<b>Vertical Compressed Air Storage Tanks</b> (22 15 13 00-0101)		
22 15 13 00-0116	EA			10 Gallon Vertical Compressed Air Storage Tank, ASME .....	467.31	77.81
22 15 13 00-0117	EA			15 Gallon Vertical Compressed Air Storage Tank, ASME .....	492.29	85.10
22 15 13 00-0118	EA			20 Gallon Vertical Compressed Air Storage Tank, ASME .....	532.21	89.48
22 15 13 00-0119	EA			30 Gallon Vertical Compressed Air Storage Tank, ASME .....	624.66	97.27
22 15 13 00-0120	EA			60 Gallon Vertical Compressed Air Storage Tank, ASME .....	852.74	131.30
22 15 13 00-0121	EA			80 Gallon Vertical Compressed Air Storage Tank, ASME .....	977.51	145.90
22 15 13 00-0122	EA			120 Gallon Vertical Compressed Air Storage Tank, ASME .....	1,329.51	170.22
22 15 13 00-0123	EA			200 Gallon Vertical Compressed Air Storage Tank, ASME .....	1,912.16	194.53
22 15 13 00-0124	EA			240 Gallon Vertical Compressed Air Storage Tank, ASME .....	2,104.80	206.69
22 15 13 00-0125	EA			325 Gallon Vertical Compressed Air Storage Tank, ASME .....	2,827.28	218.84
22 15 13 00-0126	EA			400 Gallon Vertical Compressed Air Storage Tank, ASME .....	3,608.80	255.32
22 15 13 00-0127	EA			500 Gallon Vertical Compressed Air Storage Tank, ASME .....	4,675.60	279.64
22 15 13 00-0128	EA			660 Gallon Vertical Compressed Air Storage Tank, ASME .....	7,686.70	316.11
22 15 19				<b>General Service Packaged Air Compressors And Receivers</b> (22 15)		
				Note: Includes V-belt drive, receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.		
22 15 19 13				<b>General Service Packaged Reciprocating Air Compressors</b> (22 15 19)		
22 15 19 13-0001				<b>Single Stage Compressor</b> (22 15 19 13)		
				Note: Includes receiver, reciprocating air cooled, 140 PSIG working pressure, splash lubricated, tank mounted.		
22 15 19 13-0002	EA			1/2 HP 1-Stage Air Compressor, 1.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....	1,835.07	345.10
22 15 19 13-0003	EA			3/4 HP 1-Stage Air Compressor, 2.0 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....	1,940.82	398.30
22 15 19 13-0004	EA			1 HP 1-Stage Air Compressor, 2.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....	2,224.57	470.37
22 15 19 13-0005	EA			2 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....	2,523.91	519.01
22 15 19 13-0006	EA			3 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure .....	3,033.31	548.19
22 15 19 13-0007	EA			3 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure .....	3,229.71	567.64
22 15 19 13-0008	EA			5 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure .....	3,633.85	648.76
22 15 19 13-0009	EA			5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure .....	3,892.56	687.67
22 15 19 13-0010	EA			7.5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure .....	4,641.32	778.52
22 15 19 13-0011				<b>Two Stage Compressor</b> (22 15 19 13)		
				Note: With receiver, reciprocating air cooled, discharge pressure 80-200 PSIG, receiver capacity as noted, splash lubricated, tank mounted.		
22 15 19 13-0012	EA			1-1/2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 5.0 ACFM, 80-200 PSIG Discharge Pressure .....	3,475.56	606.55
22 15 19 13-0013	EA			2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 7.0 ACFM, 80-200 PSIG Discharge Pressure .....	3,769.99	713.64
22 15 19 13-0014	EA			3 HP 2-Stage Air Compressor, 60 Gallon Receiver, 12 ACFM, 80-200 PSIG Discharge Pressure .....	3,960.88	778.52
22 15 19 13-0015	EA			5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 15 ACFM, 80-200 PSIG Discharge Pressure .....	4,615.69	1,038.03
22 15 19 13-0016	EA			5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 16.5 ACFM, 80-200 PSI Max Discharge Pressure .....	4,925.63	1,038.03
22 15 19 13-0017	EA			7.5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 19.8 ACFM, 80-200 PSIG Discharge Pressure .....	5,402.28	1,297.53
22 15 19 13-0018	EA			7.5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 25.6 ACFM, 80-200 PSI Max Discharge Pressure .....	5,683.39	1,297.53
22 15 19 13-0019	EA			10 HP 2-Stage Air Compressor, 80 Gallon Receiver, 35.0 ACFM, 80-200 PSI Max Discharge Pressure .....	7,261.01	1,604.89
22 15 19 13-0020	EA			10 HP 2-Stage Air Compressor, 120 Gallon Receiver, 38 ACFM, 80-200 PSIG Discharge Pressure .....	7,830.31	1,653.52
22 15 19 13-0021	EA			15 HP 2-Stage Air Compressor, 120 Gallon Receiver, 50 ACFM, 80-200 PSIG Discharge Pressure .....	8,448.88	1,932.48
22 15 19 13-0022	EA			20 HP 2-Stage Air Compressor, 120 Gallon Receiver, 70 ACFM, 80-200 PSIG Discharge Pressure .....	12,285.36	2,187.51
22 15 19 13-0023	EA			25 HP 2-Stage Air Compressor, 120 Gallon Receiver, 84.4 ACFM, 175 PSI Max Discharge Pressure .....	13,273.24	2,471.82
22 15 19 13-0024	EA			30 HP 2-Stage Air Compressor, 120 Gallon Receiver, 97.2 ACFM, 175 PSI Max Discharge Pressure .....	14,778.82	2,731.91
22 15 19 13-0025	EA			30 HP 2-Stage Air Compressor, 250 Gallon Receiver, 101 ACFM, 175 PSI Max Discharge Pressure .....	16,091.32	2,994.04
22 15 19 19				<b>General Service Packaged Rotary-Screw Air Compressors</b> (22 15 19)		
22 15 19 19-0001				<b>Rotary Screw Air Compressor, Base Mounted Without Receiver</b> (22 15 19 19)		
				Note: Oil flooded.		
22 15 19 19-0002	EA			3 HP, 8.5 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated .....	5,935.19	938.61
22 15 19 19-0003	EA			5 HP, 16.6 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated .....	6,758.87	1,251.49
22 15 19 19-0004	EA			7.5 HP, 27 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	8,639.24	1,569.07
22 15 19 19-0005	EA			10 HP, 37 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	10,142.17	1,999.56
22 15 19 19-0006	EA			15 HP, 56 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	11,617.43	2,352.42
22 15 19 19-0007	EA			20 HP, 79 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	13,972.08	2,646.49
22 15 19 19-0008	EA			25 HP, 114 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated .....	15,350.78	2,940.54

**22 Plumbing****22 10 Plumbing Piping****22 15 General Service Compressed-Air Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 19 19-0009 EA 30 HP, 137 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated ...	18,270.56	3,293.40
22 15 19 19-0010 EA 40 HP, 183 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated ...	20,023.19	3,528.64
22 15 19 19-0011 EA 50 HP, 214 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated ...	22,372.47	3,802.70
22 15 19 19-0012 EA 60 HP, 256 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated ...	28,517.45	4,116.76
22 15 19 19-0013 EA 75 HP, 320 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated ...	31,502.64	4,352.00
22 15 19 19-0014 EA 100 HP, 494 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....	49,105.99	4,704.86
22 15 19 19-0015 EA 125 HP, 592 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....	60,756.74	5,087.13
22 15 19 19-0016 EA 150 HP, 695 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....	70,293.01	5,475.28
22 15 19 19-0017 EA 220 HP, 996 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....	90,632.81	5,881.08
22 15 19 19-0018 EA 250 HP, 1,000 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	102,704.31	6,257.46
<b>22 15 19 19-0019 Rotary Screw Air Compressor, Base Mounted With Receiver</b> <small>(22 15 19 19)</small>		
Note: Includes receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.		
22 15 19 19-0020 EA 5 HP, 18.5 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated.....	7,460.93	1,251.49
22 15 19 19-0021 EA 5 HP, 18.5 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated.....	7,876.11	1,251.49
22 15 19 19-0022 EA 7.5 HP, 28 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	8,969.36	1,569.07
22 15 19 19-0023 EA 7.5 HP, 28 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	9,423.47	1,569.07
22 15 19 19-0024 EA 10 HP, 38 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	10,323.81	1,999.56
22 15 19 19-0025 EA 10 HP, 38 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	10,803.87	1,999.56
22 15 19 19-0026 EA 15 HP, 55 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	11,767.35	2,352.42
22 15 19 19-0027 EA 15 HP, 55 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	12,286.33	2,352.42
22 15 19 19-0028 EA 20 HP, 75 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	19,438.63	2,646.49
22 15 19 19-0029 EA 25 HP, 102 SCFM, 120 gallon receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	21,011.94	2,940.54
22 15 19 19-0030 EA 30 HP, 125 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	22,455.52	3,293.40
<b>22 30 Plumbing Equipment</b> <small>(22)</small>		
<b>22 31 Domestic Water Softeners</b> <small>(22 30)</small>		
<b>22 31 13 Residential Domestic Water Softeners</b> <small>(22 31)</small>		
<b>22 31 16 Commercial Domestic Water Softeners</b> <small>(22 31)</small>		
22 31 16 00-0001 Commercial Water Softeners (Watts Pure Water) <small>(22 31 16)</small>		
22 31 16 00-0002 Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0001)</small>		
22 31 16 00-0003 1" Pipe Connection, Commercial Water Softeners (Watts Pure Water) <small>(22 31 16 00-0002)</small>		
Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0004 EA 30,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111A11) .....	2,856.84	297.63
22 31 16 00-0005 EA 45,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111B11) .....	2,986.20	311.15
22 31 16 00-0006 EA 60,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111C11) .....	3,214.55	324.68
22 31 16 00-0007 EA 90,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111D11) .....	3,672.81	338.21
22 31 16 00-0008 EA 120,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111E11) .....	3,907.77	351.74
<b>22 31 16 00-0009 1-1/2" Pipe Connection, Commercial Water Softeners (Watts Pure Water)</b> <small>(22 31 16 00-0002)</small>		
Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0010 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121C11) .....	4,185.85	324.68
22 31 16 00-0011 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121D11) .....	4,399.91	338.21
22 31 16 00-0012 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121E11) .....	4,635.97	351.74
22 31 16 00-0013 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121F11) .....	5,468.23	365.26



<b>Plumbing</b>	<b>22</b>	
<b>Plumbing Equipment</b>	<b>22 30</b>	<b>22</b>
<b>Domestic Water Softeners</b>	<b>22 31</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0014 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121G11).....	6,057.38	378.79
22 31 16 00-0015 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121H11).....	7,321.94	392.32
<b>22 31 16 00-0016 2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0002)</b> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0017 EA 90,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D11).....	6,236.91	338.21
22 31 16 00-0018 EA 120,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E11).....	6,465.27	351.74
22 31 16 00-0019 EA 150,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F11).....	7,299.73	365.26
22 31 16 00-0020 EA 210,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G11).....	7,888.88	378.79
22 31 16 00-0021 EA 300,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H11).....	9,221.64	392.32
22 31 16 00-0022 EA 450,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I11).....	12,076.79	405.85
22 31 16 00-0023 EA 600,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J11).....	14,084.95	419.37
<b>22 31 16 00-0024 3" Pipe Connection, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0002)</b> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0025 EA 300,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H11).....	14,748.04	392.32
22 31 16 00-0026 EA 450,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I11).....	17,001.49	405.85
22 31 16 00-0027 EA 600,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J11).....	18,983.25	419.37
22 31 16 00-0028 EA 900,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K11).....	23,827.20	432.90
22 31 16 00-0029 EA 1050,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L11).....	26,357.87	446.43
<b>22 31 16 00-0030 Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0001)</b>		
<b>22 31 16 00-0031 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0030)</b> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0032 EA 90,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D21).....	10,199.62	507.31
22 31 16 00-0033 EA 120,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E21).....	10,650.51	527.60
22 31 16 00-0034 EA 150,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F21).....	12,086.99	547.90
22 31 16 00-0035 EA 210,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G21).....	13,191.27	568.19
22 31 16 00-0036 EA 300,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H21).....	16,021.46	588.48
22 31 16 00-0037 EA 450,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I21).....	21,093.44	608.77
22 31 16 00-0038 EA 600,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J21).....	24,759.62	629.06
<b>22 31 16 00-0039 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0030)</b> Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0040 EA 300,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H21).....	26,981.86	588.48
22 31 16 00-0041 EA 450,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I21).....	30,945.04	608.77
22 31 16 00-0042 EA 600,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J21).....	34,733.32	629.06
22 31 16 00-0043 EA 900,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K21).....	44,078.81	649.35
22 31 16 00-0044 EA 1,050,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L21).....	49,171.70	669.64
<b>22 31 16 00-0045 Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0001)</b>		



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

22 31 16 00-0046		<b>1" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water)</b> <small>(22 31 16 00-0045)</small>		
		Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0047	EA	30,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21) .....	3,799.07	446.43
22 31 16 00-0048	EA	45,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21) .....	4,044.25	466.72
22 31 16 00-0049	EA	60,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21) .....	4,393.93	487.01
22 31 16 00-0050	EA	90,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21) .....	5,213.32	507.31
22 31 16 00-0051	EA	120,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21) .....	5,740.11	527.60
22 31 16 00-0052		<b>1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water)</b> <small>(22 31 16 00-0045)</small>		
		Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0053	EA	60,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21) .....	7,136.23	487.01
22 31 16 00-0054	EA	90,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21) .....	7,520.02	507.31
22 31 16 00-0055	EA	120,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21) .....	8,079.81	527.60
22 31 16 00-0056	EA	150,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21) .....	9,204.99	547.90
22 31 16 00-0057	EA	210,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21) .....	10,346.67	568.19
22 31 16 00-0058	EA	300,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21) .....	12,858.96	588.48
22 32		<b>Domestic Water Filtration Equipment</b> <small>(22 30)</small>		
22 32 16		<b>Domestic-Water Freestanding Cartridge Filters</b> <small>(22 32)</small>		
22 32 16 00-0001		<b>Commercial Water Filters Housings</b> <small>(22 32 16)</small>		
22 32 16 00-0002		<b>Commercial Multi-Cartridge Stainless Steel Water Filter Housings</b> <small>(22 32 16 00-0001)</small>		
22 32 16 00-0003		<b>Commercial Multi-Cartridge Stainless Steel Water Filter Housings</b> <small>(22 32 16 00-0002)</small>		
22 32 16 00-0004	EA	25 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X1) .....	1,509.77	191.13
22 32 16 00-0005	EA	30 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X1) .....	1,549.07	205.84
22 32 16 00-0006	EA	60 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X2) .....	1,649.98	220.54
22 32 16 00-0007	EA	90 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X3) .....	1,819.08	235.24
22 32 16 00-0008	EA	120 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X4) .....	1,880.39	249.94
22 32 16 00-0009	EA	150 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X4) .....	2,246.39	264.65
22 32 16 00-0010	EA	250 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X3) .....	5,912.40	279.35
22 32 16 00-0011	EA	300 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X4) .....	6,851.50	294.05
22 32 16 00-0012	EA	500 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X3) .....	8,643.11	308.75
22 32 16 00-0013	EA	600 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X4) .....	9,571.21	323.46
22 32 16 00-0014		<b>Commercial Water Filter Cartridges</b> <small>(22 32 16 00-0002)</small>		
22 32 16 00-0015		<b>(Depth) Water Filter Cartridges</b> <small>(22 32 16 00-0014)</small>		
22 32 16 00-0016	EA	50 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M50) .....	8.82	2.35
22 32 16 00-0017	EA	20 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M20) .....	8.82	2.35
22 32 16 00-0018	EA	10 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M10) .....	8.82	2.35
22 32 16 00-0019	EA	5 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M5) .....	7.72	2.35
22 32 16 00-0020	EA	1 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M1) .....	9.10	2.35
22 32 16 00-0021	EA	50 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M50) .....	9.10	2.35
22 32 16 00-0022	EA	20 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M20) .....	9.65	2.35
22 32 16 00-0023	EA	5 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Big Pure Water PWMB20M5) .....	11.58	2.35
22 32 16 00-0024	EA	1 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M1) .....	9.65	2.35
22 32 16 00-0025	EA	50 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M50) .....	11.02	2.35
22 32 16 00-0026	EA	20 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M20) .....	11.02	2.35
22 32 16 00-0027	EA	5 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M5) .....	11.02	2.35
22 32 16 00-0028	EA	1 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M1) .....	11.85	2.35
22 32 16 00-0029	EA	50 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M50) .....	14.88	2.35





<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Equipment</b>	<b>22 30</b>	
<b>Domestic Water Filtration Equipment</b>	<b>22 32</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 32 16 00-0030 EA 20 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M20).....	13.78	2.35
22 32 16 00-0031 EA 5 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M5).....	13.78	2.35
22 32 16 00-0032 EA 1 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M1).....	14.88	2.35
<b>22 32 16 00-0033 Pleated Water Filter Cartridges (22 32 16 00-0014)</b>		
22 32 16 00-0034 EA 50 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M50).....	14.05	2.35
22 32 16 00-0035 EA 20 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M20).....	14.05	2.35
22 32 16 00-0036 EA 5 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M5).....	14.32	2.35
22 32 16 00-0037 EA 1 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1).....	15.15	2.35
22 32 16 00-0038 EA 1 Micron Absolute, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1AB).....	21.75	2.35
22 32 16 00-0039 EA 50 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M50).....	20.92	2.35
22 32 16 00-0040 EA 20 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M20).....	20.92	2.35
22 32 16 00-0041 EA 5 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Big Pure Water PWPL20M5).....	20.92	2.35
22 32 16 00-0042 EA 1 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1).....	26.98	2.35
22 32 16 00-0043 EA 1 Micron Absolute, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1AB).....	37.42	2.35
22 32 16 00-0044 EA 50 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M50).....	31.65	2.35
22 32 16 00-0045 EA 20 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M20).....	43.20	2.35
22 32 16 00-0046 EA 5 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M5).....	44.85	2.35
22 32 16 00-0047 EA 1 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M1).....	50.35	2.35
<b>22 32 16 00-0048 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0001)</b>		
<b>22 32 16 00-0049 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0048)</b>		
22 32 16 00-0050 EA 150 GPM Max Flow Rate, 1 Cartridge, Commercial Non-Metallic Water Filter Housing (Watts Big Bubba® PWWJCHSG).....	1,211.41	176.43
<b>22 32 16 00-0051 Commercial Water Filter Cartridges (22 32 16 00-0048)</b>		
<b>22 32 16 00-0052 Carbon Water Filter Cartridges (22 32 16 00-0051)</b>		
22 32 16 00-0053 EA Activated 26-1/4" Length, Carbon Water Filter Cartridge (Watts Big Bubba® PWWJCAC5).....	347.35	2.35
<b>22 32 16 00-0054 (Depth) Water Filter Cartridges (22 32 16 00-0051)</b>		
22 32 16 00-0055 EA 50 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB50).....	73.72	2.35
22 32 16 00-0056 EA 20 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB20).....	73.18	2.35
22 32 16 00-0057 EA 5 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB5).....	73.18	2.35
22 32 16 00-0058 EA 1 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB1).....	83.62	2.35
<b>22 32 16 00-0059 Pleated Water Filter Cartridges (22 32 16 00-0051)</b>		
22 32 16 00-0060 EA 150 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCM150).....	191.70	2.35
22 32 16 00-0061 EA 50 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP50).....	180.15	2.35
22 32 16 00-0062 EA 20 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP20).....	196.10	2.35
22 32 16 00-0063 EA 5 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP5).....	205.45	2.35
22 32 16 00-0064 EA 1 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1).....	218.65	2.35
22 32 16 00-0065 EA 1 Absolute, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1AB).....	236.80	2.35
<b>22 33 Electric Domestic Water Heaters (22 30)</b>		
<b>22 33 13 Instantaneous Electric Domestic Water Heaters (22 33)</b>		
<b>22 33 13 13 Flow-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)</b>		
<b>22 33 13 13-0001 Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 13)</b>		
22 33 13 13-0002 EA 3 To 10 KW Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012, EX48, EX65, EX75, EX95).....	338.74	58.79
22 33 13 13-0003 EA 7.2 KW, 0.75 GPM, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch RP7P).....	380.77	58.79
<b>22 33 13 16 Thermostat-Control, Instantaneous Electric Domestic Water Heaters (22 33 13)</b>		
<b>22 33 13 16-0001 Thermostat Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters (22 33 13 16)</b>		
Note: Temperature rise decreases with increased flow rate.		
22 33 13 16-0002 EA 3 To 10 KW Thermostat-Control, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012T, EX48T, EX65T, EX75T, EX95T, EX012240T).....	458.83	88.19
22 33 13 16-0003 EA 12 KW, 2.0 GPM, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE12).....	520.49	117.59
22 33 13 16-0004 EA 17.25 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE115).....	887.33	205.78
22 33 13 16-0005 EA 26.85 KW, 4.0 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE125).....	1,278.94	235.18
22 33 13 16-0006 EA 12 KW, 1.6 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 12 Plus).....	875.31	117.59
22 33 13 16-0007 EA 14.4 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 15 Plus).....	1,209.98	176.38

<b>22</b>	<b>Plumbing</b>
<b>22 30</b>	<b>Plumbing Equipment</b>
<b>22 33</b>	<b>Electric Domestic Water Heaters</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 13 16-0008 EA 19.2 KW, 2.8 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 20 Plus).....	1,369.50	235.18
22 33 13 16-0009 EA 24 KW, 3.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 24 Plus).....	1,413.90	235.18
22 33 13 16-0010 EA 28.8 KW, 4.5 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 29 Plus).....	1,455.84	235.18
22 33 13 16-0011 EA 36 KW, 4.5 GPM At 55 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 36 Plus).....	1,517.51	235.18
<b>22 33 30 Residential, Electric Domestic Water Heaters (22 33)</b>		
<b>22 33 30 13 Residential, Small-Capacity Electric Domestic Water Heaters (22 33 30)</b>		
<b>22 33 30 13-0001 Small-Capacity, Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30)</b>		
<sup>13)</sup> Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 13-0002 EA 2 Gallon, Small-Capacity, Electric Domestic Water Heater.....	695.96	185.20
22 33 30 13-0003 EA 10 Gallon, Small-Capacity, Electric Domestic Water Heater.....	828.02	196.96
22 33 30 13-0004 EA 20 Gallon, Small-Capacity, Electric Domestic Water Heater.....	954.19	205.78
<b>22 33 30 16 Residential, Storage Electric Domestic Water Heaters (22 33 30)</b>		
<b>22 33 30 16-0001 Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 16)</b>		
Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 16-0002 EA 30 Gallon, Electric Domestic Water Heater.....	1,007.24	205.78
22 33 30 16-0003 EA 40 Gallon, Electric Domestic Water Heater.....	963.23	211.66
22 33 30 16-0004 EA 50 Gallon, Electric Domestic Water Heater.....	956.00	217.54
22 33 30 16-0005 EA 55 Gallon, Electric Domestic Water Heater.....	1,047.69	220.48
22 33 30 16-0006 EA 66 Gallon, Electric Domestic Water Heater.....	1,440.36	226.36
22 33 30 16-0007 EA 80 Gallon, Electric Domestic Water Heater.....	1,471.56	235.18
22 33 30 16-0008 EA 120 Gallon, Electric Domestic Water Heater.....	1,902.75	249.88
<b>22 33 30 16-0009 Low-Boy, Electric Domestic Water Heaters (A.O. Smith ProMax) (22 33 30 16)</b>		
Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 16-0010 EA 30 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,068.15	205.78
22 33 30 16-0011 EA 40 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,031.07	211.66
22 33 30 16-0012 EA 50 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,086.25	217.54
<b>22 33 30 16-0013 High Efficiency, Electric Domestic Water Heaters (A.O. Smith Conservationist) (22 33 30 16)</b>		
Note: Includes .95 energy factor glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 16-0014 EA 40 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,102.23	211.66
22 33 30 16-0015 EA 50 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,192.07	217.54
22 33 30 16-0016 EA 66 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,430.79	226.36
22 33 30 16-0017 EA 80 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,546.11	235.18
<b>22 33 30 16-0018 Water Heater Accessories (22 33 30 16)</b>		
22 33 30 16-0019 EA 2 Gallon, Expansion Pressure Tank For Water Heaters.....	80.57	11.75
22 33 30 16-0020 EA 4.4 Gallon, Expansion Pressure Tank For Water Heaters.....	93.30	11.75
22 33 30 16-0021 EA 7.6 Gallon, Expansion Pressure Tank For Water Heaters.....	171.93	11.75
22 33 30 16-0022 EA 14 Gallon, Expansion Pressure Tank For Water Heaters.....	227.28	11.75
22 33 30 16-0023 EA 20" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	48.33	8.82
22 33 30 16-0024 EA 22" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	52.03	8.82
22 33 30 16-0025 EA 24" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	54.49	8.82
22 33 30 16-0026 EA 26" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	63.12	8.82
22 33 30 16-0027 EA 22" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	29.78	8.82
22 33 30 16-0028 EA 24" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	31.75	8.82
22 33 30 16-0029 EA 26" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	34.53	8.82
22 33 30 16-0030 EA 28" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	38.09	8.82
<b>22 33 33 Light-Commercial Electric Domestic Water Heaters (22 33)</b>		
<b>22 33 33 00-0001 Heavy Duty Electric Commercial Water Heaters (A.O. Smith DSE) (22 33 33)</b>		
Note: Includes glass lined tank, ASME tank construction, drain valve, and temperature and pressure relief valve.		
22 33 33 00-0002 EA 3 KW, 5 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-5-3).....	3,404.01	205.78
22 33 33 00-0003 EA 3 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-3).....	3,530.01	205.78
22 33 33 00-0004 EA 6 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-6).....	3,666.51	205.78
22 33 33 00-0005 EA 3 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-3).....	3,725.30	235.18
22 33 33 00-0006 EA 6 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-6).....	3,882.80	235.18
22 33 33 00-0007 EA 9 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-9).....	4,134.80	235.18
22 33 33 00-0008 EA 12 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-12).....	4,302.80	235.18
22 33 33 00-0009 EA 15 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-15).....	4,439.30	235.18
22 33 33 00-0010 EA 18 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-18).....	4,586.30	235.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 33 00-0011 EA 6 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-6).....	4,040.30	235.18
22 33 33 00-0012 EA 9 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-9).....	4,187.30	235.18
22 33 33 00-0013 EA 12 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-12).....	4,355.30	235.18
22 33 33 00-0014 EA 15 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-15).....	4,491.80	235.18
22 33 33 00-0015 EA 18 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-18).....	4,638.80	235.18
22 33 33 00-0016 EA 24 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-24).....	5,720.30	235.18
22 33 33 00-0017 EA 9 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-9).....	4,441.39	293.97
22 33 33 00-0018 EA 12 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-12).....	4,577.89	293.97
22 33 33 00-0019 EA 15 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-15).....	4,745.89	293.97
22 33 33 00-0020 EA 18 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-18).....	4,892.89	293.97
22 33 33 00-0021 EA 24 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-24).....	5,984.89	293.97
22 33 33 00-0022 EA 30 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-30).....	6,488.89	293.97
22 33 33 00-0023 EA 36 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-36).....	6,982.39	293.97
22 33 33 00-0024 EA 9 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-9).....	5,146.98	352.77
22 33 33 00-0025 EA 12 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-12).....	5,283.48	352.77
22 33 33 00-0026 EA 15 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-15).....	5,419.98	352.77
22 33 33 00-0027 EA 18 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-18).....	5,566.98	352.77
22 33 33 00-0028 EA 24 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-24).....	6,690.48	352.77
22 33 33 00-0029 EA 30 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-30).....	7,194.48	352.77
22 33 33 00-0030 EA 36 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-36).....	7,687.98	352.77
22 33 33 00-0031 EA 45 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-45).....	8,580.48	352.77
22 33 33 00-0032 EA 54 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-54).....	8,979.48	352.77
22 33 33 00-0033 EA 60 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-60).....	10,365.48	352.77
22 33 33 00-0034 EA 75 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-75).....	12,150.48	352.77
22 33 33 00-0035 EA 90 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-90).....	15,153.48	352.77
22 33 33 00-0036 EA 9 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-9).....	5,865.17	470.35
22 33 33 00-0037 EA 12 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-12).....	6,022.67	470.35
22 33 33 00-0038 EA 15 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-15).....	6,169.67	470.35
22 33 33 00-0039 EA 18 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-18).....	6,295.67	470.35
22 33 33 00-0040 EA 24 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-24).....	7,408.67	470.35
22 33 33 00-0041 EA 30 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-30).....	7,912.67	470.35
22 33 33 00-0042 EA 36 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-36).....	8,395.67	470.35
22 33 33 00-0043 EA 45 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-45).....	9,309.17	470.35
22 33 33 00-0044 EA 54 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-54).....	9,697.67	470.35
22 33 33 00-0045 EA 60 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-60).....	11,094.17	470.35
22 33 33 00-0046 EA 75 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-75).....	12,889.67	470.35
22 33 33 00-0047 EA 90 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-90).....	15,882.17	470.35
22 33 33 00-0048 EA 12 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-12).....	6,560.26	529.15
22 33 33 00-0049 EA 15 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-15).....	6,707.26	529.15
22 33 33 00-0050 EA 18 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-18).....	6,833.26	529.15
22 33 33 00-0051 EA 24 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-24).....	7,956.76	529.15
22 33 33 00-0052 EA 30 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-30).....	8,408.26	529.15
22 33 33 00-0053 EA 36 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-36).....	8,933.26	529.15
22 33 33 00-0054 EA 45 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-45).....	9,846.76	529.15
22 33 33 00-0055 EA 54 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-54).....	10,245.76	529.15
22 33 33 00-0056 EA 60 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-60).....	11,558.26	529.15
22 33 33 00-0057 EA 75 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-75).....	13,427.26	529.15
22 33 33 00-0058 EA 90 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-90).....	16,419.76	529.15
22 33 33 00-0059 EA 15 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-15).....	7,370.84	587.94
22 33 33 00-0060 EA 18 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-18).....	7,538.84	587.94
22 33 33 00-0061 EA 24 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-24).....	8,630.84	587.94
22 33 33 00-0062 EA 30 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-30).....	9,134.84	587.94
22 33 33 00-0063 EA 36 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-36).....	9,628.34	587.94
22 33 33 00-0064 EA 45 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-45).....	10,520.84	587.94
22 33 33 00-0065 EA 54 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-54).....	10,930.34	587.94
22 33 33 00-0066 EA 60 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-60).....	12,305.84	587.94
22 33 33 00-0067 EA 75 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-75).....	14,090.84	587.94
22 33 33 00-0068 EA 90 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-90).....	17,104.34	587.94
22 33 33 00-0069 EA 15 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-15).....	7,984.02	705.53
22 33 33 00-0070 EA 18 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-18).....	8,131.02	705.53
22 33 33 00-0071 EA 24 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-24).....	9,223.02	705.53
22 33 33 00-0072 EA 30 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-30).....	9,706.02	705.53
22 33 33 00-0073 EA 36 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-36).....	10,220.52	705.53
22 33 33 00-0074 EA 45 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-45).....	11,113.02	705.53
22 33 33 00-0075 EA 54 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-54).....	11,491.02	705.53
22 33 33 00-0076 EA 60 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-60).....	12,908.52	705.53
22 33 33 00-0077 EA 75 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-75).....	14,704.02	705.53
22 33 33 00-0078 EA 90 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-90).....	17,686.02	705.53

**22 33 33 00-0079 Standard Duty Electric Commercial Water Heaters (A.O. Smith DEL And DEN)** <sup>(22 33 33)</sup>

Note: Includes glass lined tank, drain valve, and temperature and pressure relief valve.

22 33 33 00-0080 EA Up To 2.5 KW, 6 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-6S).....	1,062.51	205.78
22 33 33 00-0081 EA Up To 6 KW, 10 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-10S).....	1,128.66	205.78
22 33 33 00-0082 EA Up To 6 KW, 20 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-20S).....	1,236.80	235.18
22 33 33 00-0083 EA Up To 12 KW, 30 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-30D).....	1,992.80	235.18
22 33 33 00-0084 EA Up To 12 KW, 40 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-40D).....	2,320.39	293.97
22 33 33 00-0085 EA Up To 12 KW, 50 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-50D).....	2,595.48	352.77
22 33 33 00-0086 EA Up To 12 KW, 80 Gallon, Dual Element Standard Upright Electric Commercial Water Heater (DEN-80D).....	3,198.16	529.15

<b>22</b>	<b>Plumbing</b>
<b>22 30</b>	<b>Plumbing Equipment</b>
<b>22 33</b>	<b>Electric Domestic Water Heaters</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

22 33 33 00-0087	Removal And Reinstallation Of Water Heater <small>(22 33 33)</small> Note: Includes storage and cleaning.		
22 33 33 00-0088	EA Removal And Reinstallation Of Water Heater Electric, Up To 82 Gallon .....	391.97	
22 33 33 00-0089	EA Removal And Reinstallation Of Water Heater Electric, 83 Gallon To 200 Gallon .....	1,175.89	
<b>22 34 Fuel-Fired Domestic Water Heaters <small>(22 30)</small></b>			
<b>22 34 13 Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34)</small></b>			
22 34 13 00-0001	Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34 13)</small>		
22 34 13 00-0002	Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34 13 00-0001)</small> Note: Includes vent connection. Excludes vent.		
22 34 13 00-0003	EA 4.2 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-42PVN) .....	1,367.83	235.18
22 34 13 00-0004	EA 5.3 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53PVN) .....	1,467.74	238.12
22 34 13 00-0005	EA 5.3 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53DVN) .....	1,599.17	244.00
22 34 13 00-0006	EA 6.6 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-66DVN) .....	1,841.57	249.88
22 34 13 00-0007	EA 7.4 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74PVN) .....	2,206.16	264.57
22 34 13 00-0008	EA 7.4 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74DVN) .....	2,248.90	264.57
22 34 13 00-0009	Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34 13 00-0001)</small>		
22 34 13 00-0010	EA 5.3 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53XN) .....	1,461.86	235.18
22 34 13 00-0011	EA 7.4 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74XN) .....	2,206.16	264.57
<b>22 34 30 Residential Gas Domestic Water Heaters <small>(22 34)</small></b>			
<b>22 34 30 13 Residential, Atmospheric, Gas Domestic Water Heaters <small>(22 34 30)</small></b>			
22 34 30 13-0001	Atmospheric, Gas Domestic Water Heaters (A.O. Smith ProMax) <small>(22 34 30 13)</small> Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 13-0002	EA 30 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-30) .....	1,063.19	226.36
22 34 30 13-0003	EA 40 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-40) .....	1,051.88	232.24
22 34 30 13-0004	EA 50 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCVX-50) .....	1,344.48	238.12
22 34 30 13-0005	EA 65 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-65) .....	1,444.50	244.00
22 34 30 13-0006	EA 75 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-75) .....	1,564.72	249.88
22 34 30 13-0007	EA 100 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-100) .....	2,233.22	264.57
<b>22 34 30 16 Residential, Direct-Vent, Gas Domestic Water Heaters <small>(22 34 30)</small></b>			
22 34 30 16-0001	Direct-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) <small>(22 34 30 16)</small> Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 16-0002	EA 40 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-40) .....	1,804.40	232.24
22 34 30 16-0003	EA 50 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-50) .....	2,036.41	238.12
22 34 30 16-0004	EA 75 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-75) .....	2,598.00	244.00
<b>22 34 30 19 Residential, Power-Vent, Gas Domestic Water Heaters <small>(22 34 30)</small></b>			
22 34 30 19-0001	Power-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) <small>(22 34 30 19)</small> Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 19-0002	EA 40 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-40) .....	1,655.63	232.24
22 34 30 19-0003	EA 50 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-50) .....	1,721.65	238.12
<b>22 34 36 Commercial Gas Domestic Water Heaters <small>(22 34)</small></b>			
22 34 36 00-0001	Gas Fired Commercial Water Heaters (A.O. Smith BTR) <small>(22 34 36)</small> Note: Includes automatic flue damper, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 00-0002	EA 120 MBH Input, 71 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-120) .....	5,009.30	352.77
22 34 36 00-0003	EA 154 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-154) .....	5,365.41	411.56
22 34 36 00-0004	EA 180 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-180) .....	6,618.54	470.35
22 34 36 00-0005	EA 199 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-199) .....	5,757.82	470.35
22 34 36 00-0006	EA 199 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200) .....	6,583.38	470.35
22 34 36 00-0007	EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200A) .....	8,722.58	517.39
22 34 36 00-0008	EA 250 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250) .....	6,413.62	529.15
22 34 36 00-0009	EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250A) .....	9,408.35	582.06
22 34 36 00-0010	EA 251 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251) .....	6,509.01	529.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 00-0011 EA 251 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251A).....	8,988.19	582.06
22 34 36 00-0012 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275).....	7,243.84	646.74
22 34 36 00-0013 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275A).....	9,871.45	711.42
22 34 36 00-0014 EA 305 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305).....	8,106.87	646.74
22 34 36 00-0015 EA 305 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305A).....	9,928.23	711.42
22 34 36 00-0016 EA 365 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365).....	7,883.84	705.53
22 34 36 00-0017 EA 365 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365A).....	10,954.68	776.09
22 34 36 00-0018 EA 390 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400).....	9,916.47	705.53
22 34 36 00-0019 EA 390 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400A).....	12,907.87	776.09
22 34 36 00-0020 EA 500 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-500).....	12,850.29	764.32
22 34 36 00-0021 EA 150 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151).....	6,432.80	411.56
22 34 36 00-0022 EA 150 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151A).....	7,696.11	452.72
22 34 36 00-0023 EA 199 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201).....	6,709.38	470.35
22 34 36 00-0024 EA 199 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201A).....	8,018.52	517.39
22 34 36 00-0025 EA Sidewall Power Vent System For BTR-120 through BTR-200.....	1,723.46	293.97
22 34 36 00-0026 EA Sidewall Power Vent System For BTR-250 through BTR-500.....	1,871.08	293.97
<b>22 34 36 00-0027</b>	<b>Induced Draft Blower Gas Fired Commercial Water Heaters (A.O. Smith BTN)</b> <small>(22 34 36)</small>	
	Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.	
22 34 36 00-0028 EA 90 MBH Input, 98 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-100).....	4,112.20	352.77
22 34 36 00-0029 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-120).....	5,804.21	352.77
22 34 36 00-0030 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-154).....	7,068.73	411.56
22 34 36 00-0031 EA 180 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-180).....	7,379.37	470.35
22 34 36 00-0032 EA 199 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-199).....	7,413.44	470.35
22 34 36 00-0033 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200).....	7,572.42	470.35
22 34 36 00-0034 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200A).....	8,870.20	517.39
22 34 36 00-0035 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250).....	8,360.00	529.15
22 34 36 00-0036 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250A).....	10,248.67	582.06
22 34 36 00-0037 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275).....	8,810.93	646.74
22 34 36 00-0038 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275A).....	10,757.20	711.42
22 34 36 00-0039 EA 310 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310).....	8,992.62	646.74
22 34 36 00-0040 EA 310 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310A).....	10,870.76	711.42
22 34 36 00-0041 EA 366 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366).....	10,075.45	705.53
22 34 36 00-0042 EA 366 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366A).....	11,817.72	776.09
22 34 36 00-0043 EA 390 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400).....	12,130.84	705.53
22 34 36 00-0044 EA 390 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400A).....	13,975.31	776.09
<b>22 34 36 00-0045</b>	<b>Condensing Gas Fired Commercial Water Heaters (A.O. Smith BTX And BTH)</b> <small>(22 34 36)</small>	
	Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.	
22 34 36 00-0046 EA 76 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-80).....	3,226.45	352.77
22 34 36 00-0047 EA 100 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-100).....	4,271.18	352.77
22 34 36 00-0048 EA 120 MBH Input, 60 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120).....	5,134.22	352.77
22 34 36 00-0049 EA 120 MBH Input, 60 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120A).....	7,339.66	388.04
22 34 36 00-0050 EA 150 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150).....	7,522.96	411.56
22 34 36 00-0051 EA 150 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150A).....	9,456.25	452.72
22 34 36 00-0052 EA 199 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199).....	7,663.27	470.35
22 34 36 00-0053 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199A).....	9,767.31	517.39
22 34 36 00-0054 EA 250 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250).....	8,848.30	529.15
22 34 36 00-0055 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250A).....	10,736.97	582.06

**22 Plumbing**

**22 30 Plumbing Equipment**

**22 34 Fuel-Fired Domestic Water Heaters**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 00-0056	EA		300 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-300A).....	14,027.66	711.42
22 34 36 00-0057	EA		399.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-400A).....	14,758.86	776.09
22 34 36 00-0058	EA		499.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-500A).....	16,954.95	840.76
<b>22 34 36 00-0059</b>			<b>Laars Rheos+ 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heaters <small>(22 34 36)</small></b>		
22 34 36 00-0060	EA		1,200 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+).....	28,099.43	1,357.66
22 34 36 00-0061	EA		1,600 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+).....	39,408.05	1,500.57
22 34 36 00-0062	EA		2,000 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+).....	42,723.48	1,572.02
22 34 36 00-0063	EA		2,400 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+).....	46,282.50	1,714.94
<b>22 34 36 00-0064</b>			<b>Laars Rheos 86% Efficient Gas Fired, Copper Fin Tube LoNox Water Heaters <small>(22 34 36)</small></b>		
22 34 36 00-0065	EA		1,200 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos).....	25,022.88	1,357.66
22 34 36 00-0066	EA		1,600 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos).....	27,644.23	1,500.57
22 34 36 00-0067	EA		2,000 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos).....	30,174.93	1,572.02
22 34 36 00-0068	EA		2,400 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos).....	32,789.22	1,714.94
<b>22 34 36 00-0069</b>			<b>Laars Pennant 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heaters <small>(22 34 36)</small></b>		
22 34 36 00-0070	EA		200 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	6,625.38	643.10
22 34 36 00-0071	EA		300 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	7,293.68	714.55
22 34 36 00-0072	EA		400 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	8,578.54	857.47
22 34 36 00-0073	EA		500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	11,883.36	893.20
22 34 36 00-0074	EA		750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	13,151.76	1,071.84
22 34 36 00-0075	EA		1,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	16,195.53	1,286.20
22 34 36 00-0076	EA		1,250 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	18,339.18	1,357.66
22 34 36 00-0077	EA		1,500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	20,300.48	1,464.84
22 34 36 00-0078	EA		1,750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	22,117.06	1,536.30
22 34 36 00-0079	EA		2,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant).....	23,685.36	1,572.02
<b>22 34 36 00-0080</b>			<b>Patterson Kelly Thermific Sealed Combustion, Gas Fired, Copper Fin Tube Water Heaters <small>(22 34 36)</small></b>		
22 34 36 00-0081	EA		700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Thermific).....	20,970.78	1,071.84
22 34 36 00-0082	EA		1,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Thermific).....	23,159.24	1,286.20
22 34 36 00-0083	EA		1,500 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Thermific).....	30,800.75	1,464.84
22 34 36 00-0084	EA		1,700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Thermific).....	31,749.07	1,536.30
22 34 36 00-0085	EA		2,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Thermific).....	33,211.48	1,572.02
<b>22 34 36 00-0086</b>			<b>Patterson Kelly Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Water Heaters <small>(22 34 36)</small></b>		
22 34 36 00-0087	EA		1,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Modufire).....	26,553.44	1,286.20
22 34 36 00-0088	EA		1,500 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Modufire).....	32,059.60	1,464.84
22 34 36 00-0089	EA		2,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelly Modufire).....	34,033.85	1,572.02
<b>22 34 36 00-0090</b>			<b>Laars Mighty Therm Volume Water Heater <small>(22 34 36)</small></b>		
22 34 36 00-0091	EA		200 MBH Gas Fired Volume Water Heater (Laars MT2V0200).....	7,021.02	866.13
22 34 36 00-0092	EA		300 MBH Gas Fired Volume Water Heater (Laars MT2V0300).....	7,645.41	974.40
22 34 36 00-0093	EA		400 MBH Gas Fired Volume Water Heater (Laars MT2V0400).....	8,903.17	1,190.93
22 34 36 00-0094	EA		500 MBH Gas Fired Volume Water Heater (Laars MT2V0500).....	12,622.38	1,299.20
22 34 36 00-0095	EA		750 MBH Gas Fired Volume Water Heater (Laars MT2V0750).....	13,952.96	1,515.73
22 34 36 00-0096	EA		1,000 MBH Gas Fired Volume Water Heater (Laars MT2V1000).....	15,959.22	1,732.26
22 34 36 00-0097	EA		1,250 MBH Gas Fired Volume Water Heater (Laars MT2V1250).....	17,658.44	1,948.79
22 34 36 00-0098	EA		1,500 MBH Gas Fired Volume Water Heater (Laars MT2V1500).....	20,979.04	2,165.32
22 34 36 00-0099	EA		1,750 MBH Gas Fired Volume Water Heater (Laars MT2V1750).....	21,790.55	2,273.59
22 34 36 00-0100	EA		2,000 MBH Gas Fired Volume Water Heater (Laars MT2V2000).....	23,330.39	2,381.86
<b>22 34 36 00-0101</b>			<b>Laars Mighty Therm Gas Fired Domestic Hot Water Skid Package <small>(22 34 36)</small></b>		
Note: Includes (2) Laars Mighty Therm boilers, (2) B&G boiler primary pumps (one per boiler), T&P valve, circuit setter, storage tank (sized for 10 minutes buffer based on 50 degree city water supply, and operating set point for the tank at 130 degrees storage), and all necessary accessories for system monitoring such as gauges and thermometers. UL listed and labeled. Excludes piping insulation or seismic calculations.					
22 34 36 00-0102	EA		400 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-400).....	51,888.17	1,403.34
22 34 36 00-0103	EA		1,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-1000).....	62,585.24	1,491.05
22 34 36 00-0104	EA		2,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-2000).....	75,871.79	1,578.75



<b>Plumbing</b>	<b>22</b>	<b>22</b>
<b>Plumbing Equipment</b>	<b>22 30</b>	
<b>Fuel-Fired Domestic Water Heaters</b>	<b>22 34</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 00-0105 EA 3,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-3000) .....	90,537.67	1,666.46
22 34 36 00-0106 EA 4,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-4000) .....	94,903.90	1,754.18
<b>22 34 36 00-0107 Removal And Reinstallation Of Water Heater (22 34 36)</b>		
Note: Includes storage and cleaning.		
22 34 36 00-0108 EA Removal And Reinstallation Of Water Heater Gas Fired, Up To 86 Gallon .....	534.49	
22 34 36 00-0109 EA Removal And Reinstallation Of Water Heater Gas Fired, 87 Gallon To 200 Gallon .....	1,413.33	
<b>22 34 46 Oil-Fired Domestic Water Heaters (22 34)</b>		
<b>22 34 46 00-0001 Oil-Fired Domestic Water Heaters (Bock) (22 34 46)</b>		
Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 46 00-0002 EA 60 MBH, 20 Gallon, Oil-Fired Domestic Water Heater (Bock 20E) .....	1,716.66	226.36
22 34 46 00-0003 EA 104 MBH, 32 Gallon, Oil-Fired Domestic Water Heater (Bock 32E) .....	1,694.46	226.36
22 34 46 00-0004 EA 104 MBH, 33 Gallon, Oil-Fired Domestic Water Heater (Bock 33ES) .....	1,765.79	226.36
22 34 46 00-0005 EA 125 MBH, 40 Gallon, Oil-Fired Domestic Water Heater (Bock 40E) .....	1,862.54	232.24
22 34 46 00-0006 EA 140 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 50ES) .....	2,352.04	238.12
22 34 46 00-0007 EA 152 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 51E) .....	1,999.34	238.12
<b>22 34 46 00-0008 Oil Fired Commercial Water Heaters (22 34 46)</b>		
Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 46 00-0009 EA 173 MBH, 68 Gallon, Oil-Fired Commercial Water Heater (Boch 71E) .....	2,777.99	352.77
22 34 46 00-0010 EA 199 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Boch 72E) .....	3,242.34	352.77
22 34 46 00-0011 EA 242 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Boch 73E) .....	3,260.20	352.77
22 34 46 00-0012 EA 190 MBH, 113 Gallon, Oil-Fired Commercial Water Heater (Bock 120E) .....	4,683.40	470.35
22 34 46 00-0013 EA 415 MBH, 91 Gallon, Oil-Fired Commercial Water Heater (Bock 361E) .....	6,405.83	587.94
22 34 46 00-0014 EA 623 MBH, 83 Gallon, Oil-Fired Commercial Water Heater (Bock 541E) .....	8,032.99	646.74
<b>22 35 Domestic Water Heat Exchangers (22 35)</b>		
<b>22 35 23 Circulating, Domestic Water heat Exchangers (22 35)</b>		
<b>22 35 23 00-0001 Steam Driven Water Heaters (22 35 23)</b>		
<b>22 35 23 00-0002 Constant Flow (22 35 23 00-0001)</b>		
22 35 23 00-0003 EA 30 GPM, 700 LB/Hour Steam Water Heater, Constant Flow .....	6,247.27	587.94
22 35 23 00-0004 EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Constant Flow .....	7,800.83	720.47
22 35 23 00-0005 EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Constant Flow .....	9,998.65	942.24
22 35 23 00-0006 EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Constant Flow .....	13,535.08	1,312.41
22 35 23 00-0007 EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Constant Flow .....	20,003.29	2,161.52
22 35 23 00-0008 EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Constant Flow .....	21,813.29	2,449.73
22 35 23 00-0009 EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Constant Flow .....	28,570.49	2,826.60
22 35 23 00-0010 EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Constant Flow .....	34,368.20	3,340.59
<b>22 35 23 00-0011 Variable Flow (22 35 23 00-0001)</b>		
22 35 23 00-0012 EA 30 GPM, 700 LB/Hour Steam Water Heater, Variable Flow .....	9,447.84	1,146.50
22 35 23 00-0013 EA 90 GPM, 1,250 LB/Hour Steam Water Heater, Variable Flow .....	10,722.06	1,399.90
22 35 23 00-0014 EA 140 GPM, 2,500 LB/Hour Steam Water Heater, Variable Flow .....	13,680.87	1,810.16
22 35 23 00-0015 EA 230 GPM, 5,000 LB/Hour Steam Water Heater, Variable Flow .....	17,962.54	2,525.58
22 35 23 00-0016 EA 500 GPM, 7,500 LB/Hour Steam Water Heater, Variable Flow .....	26,868.95	4,223.80
22 35 23 00-0017 EA 900 GPM, 10,000 LB/Hour Steam Water Heater, Variable Flow .....	32,631.29	4,651.47
22 35 23 00-0018 EA 1,400 GPM, 15,000 LB/Hour Steam Water Heater, Variable Flow .....	37,807.32	5,443.91
22 35 23 00-0019 EA 2,400 GPM, 20,000 LB/Hour Steam Water Heater, Variable Flow .....	47,821.98	6,503.85

**END OF SECTION 22**

**22 Plumbing**

22 30 Plumbing Equipment

22 35 Domestic Water Heat Exchangers



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MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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## 23 Heating, Ventilating, And Air-Conditioning (HVAC)

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise. HVAC equipment shall conform to California Title 24.

### 23 01 Operation and Maintenance of HVAC Systems <sup>(23)</sup>

#### 23 01 10 Operation and Maintenance of Facility Fuel Systems <sup>(23 01)</sup>

##### 23 01 10 91 Facility Fuel Systems Restoration <sup>(23 01 10)</sup>

###### 23 01 10 91-0001 Purge Gas Systems <sup>(23 01 10 91)</sup>

Note: Includes collection and refilling/bleeding of system. For natural gas, flammable gases and other gases that should not be released inside the building. See CSI section 23 01 60 71-0001 for refrigerant.

23 01 10 91-0002	EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	542.80
23 01 10 91-0003	EA	>100' To 250', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	774.97
23 01 10 91-0004	EA	>250' To 500', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	812.67
23 01 10 91-0005	EA	>500' To 1,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	894.94
23 01 10 91-0006	EA	>1,000' To 2,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems.....	1,620.27
23 01 10 91-0007	EA	Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	727.89
23 01 10 91-0008	EA	>100' To 250', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,043.55
23 01 10 91-0009	EA	>250' To 500', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,098.97
23 01 10 91-0010	EA	>500' To 1,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	1,219.75
23 01 10 91-0011	EA	>1,000' To 2,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems.....	2,213.38
23 01 10 91-0012	EA	Up To 100', >4" To 10" Diameter Pipe, Purge Gas Systems.....	850.84
23 01 10 91-0013	EA	>100' To 250', >4" To 10" Diameter Pipe, Purge Gas Systems.....	1,238.09
23 01 10 91-0014	EA	>250' To 500', >4" To 10" Diameter Pipe, Purge Gas Systems.....	2,680.95
23 01 10 91-0015	EA	>500' To 1,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	4,162.36
23 01 10 91-0016	EA	>1,000' To 2,000', >4" To 10" Diameter Pipe, Purge Gas Systems.....	7,808.39

#### 23 01 20 Operation and Maintenance of HVAC Piping and Pumps <sup>(23 01)</sup>

##### 23 01 20 91 HVAC Piping And Pumps Restoration <sup>(23 01 20)</sup>

###### 23 01 20 91-0001 Lock Out/Tag Out System <sup>(23 01 20 91)</sup>

23 01 20 91-0002	EA	Up To 1", Lock Out/Tag Out Valve.....	29.40
23 01 20 91-0003	EA	>1" To 3", Lock Out/Tag Out Valve.....	35.27
23 01 20 91-0004	EA	>3" To 6", Lock Out/Tag Out Valve.....	41.16
23 01 20 91-0005	EA	>6" To 10", Lock Out/Tag Out Valve.....	47.03
23 01 20 91-0006	EA	>10" To 14", Lock Out/Tag Out Valve.....	58.79
23 01 20 91-0007	EA	Lock Out/Tag Out Padlock System.....	23.52
23 01 20 91-0008	EA	Lock Out/Tag Out Tag.....	3.14

###### 23 01 20 91-0009 Freeze Pipe Using CO2 Kit <sup>(23 01 20 91)</sup>

Note: For use on chilled water or cold water piping systems. Excludes cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0010	EA	Up To 2" Freeze Pipe Using CO2 Kit.....	140.74
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###### 23 01 20 91-0011 Freeze Pipe Using Nitrogen <sup>(23 01 20 91)</sup>

Note: For use on any water piping systems. Excludes cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0012	EA	Up To 4" Pipe Freezing Using Nitrogen.....	1,342.68
23 01 20 91-0013	EA	>4" To 12" Pipe Freezing Using Nitrogen.....	2,685.34

###### 23 01 20 91-0014 Water/Chlorine Pipe Disinfection/Flush/Testing <sup>(23 01 20 91)</sup>

Note: For existing piping when required. Water/chlorine solution per specification entitled "Water Distribution".

23 01 20 91-0015	LF	Up To 1", Water/Chlorine Pipe Disinfection/Flush/Testing.....	1.92
23 01 20 91-0016	LF	>1" To 2", Water/Chlorine Pipe Disinfection/Flush/Testing.....	2.60
23 01 20 91-0017	LF	>2" To 3", Water/Chlorine Pipe Disinfection/Flush/Testing.....	3.99
23 01 20 91-0018	LF	4", Water/Chlorine Pipe Disinfection/Flush/Testing.....	5.44
23 01 20 91-0019	LF	6", Water/Chlorine Pipe Disinfection/Flush/Testing.....	6.65
23 01 20 91-0020	LF	8", Water/Chlorine Pipe Disinfection/Flush/Testing.....	8.39
23 01 20 91-0021	LF	10", Water/Chlorine Pipe Disinfection/Flush/Testing.....	11.08
23 01 20 91-0022	LF	12", Water/Chlorine Pipe Disinfection/Flush/Testing.....	13.30

###### 23 01 20 91-0023 Shut Down Existing Piping System <sup>(23 01 20 91)</sup>

23 01 20 91-0024	EA	Shut Down Existing Interior Piping System.....	232.33
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Note: Includes lock out/tag out and average line tracing. Use when valves are greater than 25' from work. When the shut-off valves for multiple lines are located with a 10' radius, the quantity used shall be one.

###### 23 01 20 91-0025 Purge Liquid Systems <sup>(23 01 20 91)</sup>

Note: Includes collection and refilling/bleeding of system.

23 01 20 91-0026	EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Liquid System.....	387.01
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**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 01 Operation and Maintenance of HVAC Systems****23 01 20 Operation and Maintenance of HVAC Piping and Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 20 91-0027 EA >100 To 250', Up To 1-1/2" Diameter Pipe, Purge Liquid System .....	552.73	
23 01 20 91-0028 EA >250 To 500', Up To 1-1/2" Diameter Pipe, Purge Liquid System .....	662.28	
23 01 20 91-0029 EA >500 To 1,000', Up To 1-1/2" Diameter Pipe, Purge Liquid System .....	700.13	
23 01 20 91-0030 EA >1,000 To 2,000', Up To 1-1/2" Diameter Pipe, Purge Liquid System .....	1,336.61	
23 01 20 91-0031 EA Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Liquid System .....	515.16	
23 01 20 91-0032 EA >100 To 250', 1-1/2" To 4" Diameter Pipe, Purge Liquid System .....	735.13	
23 01 20 91-0033 EA >250 To 500', 1-1/2" To 4" Diameter Pipe, Purge Liquid System .....	875.16	
23 01 20 91-0034 EA >500 To 1,000', 1-1/2" To 4" Diameter Pipe, Purge Liquid System .....	930.55	
23 01 20 91-0035 EA >1,000 To 2,000', 1-1/2" To 4" Diameter Pipe, Purge Liquid System .....	1,793.01	
23 01 20 91-0036 EA Up To 100', >4" To 10" Diameter Pipe, Purge Liquid System .....	635.11	
23 01 20 91-0037 EA >100 To 250', >4" To 10" Diameter Pipe, Purge Liquid System .....	907.57	
23 01 20 91-0038 EA >250 To 500', >4" To 10" Diameter Pipe, Purge Liquid System .....	2,331.72	
23 01 20 91-0039 EA >1,000 To 2,000', >4" To 10" Diameter Pipe, Purge Liquid System .....	3,700.33	
<b>23 01 20 91-0040 Special Cleaning Of Piping Systems (23 01 20 91)</b>		
<b>23 01 20 91-0041 Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing (23 01 20 91-0040)</b>		
23 01 20 91-0042 LF Up To 1", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing .....	2.34	
23 01 20 91-0043 LF >1" To 2", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing .....	3.86	
23 01 20 91-0044 LF >2" To 3", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing .....	5.38	
23 01 20 91-0045 LF >3" To 4", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing .....	6.96	
23 01 20 91-0046 LF >4" To 6", Trisodium Phosphate-Caustic Pipe Disinfection/Flush/Testing .....	9.68	
<b>23 01 20 91-0047 Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing (23 01 20 91-0040)</b>		
23 01 20 91-0048 LF Up To 1", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing .....	2.47	
23 01 20 91-0049 LF >1" To 2", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing .....	4.02	
23 01 20 91-0050 LF >2" To 3", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing .....	5.61	
23 01 20 91-0051 LF >3" To 4", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing .....	7.30	
23 01 20 91-0052 LF >4" To 6", Acrysol Qr-1086 and Dequest 2010 Pipe Disinfection/Flush/Testing .....	10.13	
<b>23 01 20 91-0053 Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing (23 01 20 91-0040)</b>		
23 01 20 91-0054 LF Up To 1", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing .....	2.51	
23 01 20 91-0055 LF >1" To 2", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing .....	4.09	
23 01 20 91-0056 LF >2" To 3", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing .....	5.70	
23 01 20 91-0057 LF >3" To 4", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing .....	7.43	
23 01 20 91-0058 LF >4" To 6", Drewsperser 4945/4395 Pipe Disinfection/Flush/Testing .....	10.31	
<b>23 01 20 91-0059 Add-A-Valve Emergency Shut Off Device (23 01 20 91)</b>		
23 01 20 91-0060 EA 1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-103ADD) .....	233.13	
23 01 20 91-0061 EA 3/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-104ADD) .....	292.19	
23 01 20 91-0062 EA 1" Add-A-Valve Emergency Shut Off Device (Jomar 800-105ADD) .....	398.94	
23 01 20 91-0063 EA 1-1/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-106ADD) .....	598.08	
23 01 20 91-0064 EA 1-1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-107ADD) .....	734.46	
23 01 20 91-0065 EA 2" Add-A-Valve Emergency Shut Off Device (Jomar 800-108ADD) .....	1,092.86	
<b>23 01 30 Operation and Maintenance of HVAC Air Distribution (23 01)</b>		
<b>23 01 30 51 HVAC Air-Distribution System Cleaning (23 01 30)</b>		
<b>23 01 30 51-0001 Special Cleaning Of Ductwork (23 01 30 51)</b>		
Note: Includes sealing registers, grilles, diffusers as required.		
23 01 30 51-0002 LF Up To 2 SF Cross Section, Clean Supply/Return Ductwork .....	3.72	
For Exhaust Ductwork, Add	0.93	
23 01 30 51-0003 LF >2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork .....	4.64	
For Exhaust Ductwork, Add	1.16	
23 01 30 51-0004 LF >4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork .....	6.22	
For Exhaust Ductwork, Add	1.56	
23 01 30 51-0005 LF >8 SF Cross Section, Clean Supply/Return Ductwork .....	8.78	
For Exhaust Ductwork, Add	2.20	
23 01 30 51-0006 SF Clean Duct Dampers .....	12.54	
23 01 30 51-0007 SF Clean Duct Fire Dampers .....	25.08	
23 01 30 51-0008 SF Clean Louver .....	10.04	
23 01 30 51-0009 EA Clean Turning Vane Set .....	30.10	
23 01 30 51-0010 EA Clean Grille/Diffuser/Register .....	30.10	
Note: Includes removal and reinstallation.		
23 01 30 51-0011 LF Clean Linear Diffuser .....	7.52	
Note: Includes removal and reinstallation.		
23 01 30 51-0012 EA Cut Access For Cleaning Duct And Install Duct Insulated Access Doors .....	101.31	
For Stainless Steel, Add	67.22	
23 01 30 51-0013 EA Clean Variable Air Volume (VAV) Unit .....	90.28	
23 01 30 51-0014 EA Clean Fan Powered Induction Unit (PIU) Unit .....	120.38	
23 01 30 51-0015 EA Clean Fan Coil Unit (FCU) Unit .....	120.38	
23 01 30 51-0016 EA Clean Supply Or Return Fan .....	240.77	
23 01 30 51-0017 EA Clean Exhaust Fan .....	210.67	
23 01 30 51-0018 EA Clean Duct Coil .....	180.57	
23 01 30 51-0019 SF Clean Air Handling Unit Interior Housing, HEPA Vacuum .....	6.02	
Note: Excluding fan and coils.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 30 51-0020 EA Clean Air Handling Unit Fan .....	240.77	
23 01 30 51-0021 EA Clean Air Handling Unit Coil .....	361.15	
23 01 30 51-0022 SF Clean Equipment Surfaces, Rust Reform And Prime .....	2.90	
23 01 30 51-0023 SF Clean Interior Equipment Surfaces, Rust Reform And Prime .....	3.50	
23 01 30 51-0024 SF HEPA Vacuuming Of Walls, Ceilings And Floors In Mechanical Rooms .....	0.52	
23 01 30 51-0025 EA Cleaning Of Ductwork Minimum Set-up Charge .....	814.92	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
23 01 30 51-0026 SF Apply Antimicrobial Agent To Ductwork And Surfaces After Cleaning.....	0.48	

**23 01 50 Operation and Maintenance of Central Heating Equipment (23 01)**

**23 01 50 61 Central Heating Equipment Repair (23 01 50)**

**23 01 50 61-0001 Boiler Repairs (23 01 50 61)**

**23 01 50 61-0002 Setup And Maintenance (23 01 50 61-0001)**

23 01 50 61-0003 EA Set-up Charge For Boiler Fire Side Maintenance .....	2,411.86	
Note: Includes removing/relocating doors, plates, portals, and burners required to access fireside.		
23 01 50 61-0004 EA Close-up Charge For Boiler Fire Side Maintenance .....	2,537.67	
Note: Includes replacement of doors, plates, portals, burners, adhesive, rope, wool, and seals.		
<i>For Burner Seals, Add</i> <span style="float: right;">641.19</span>		
Note: Used when burner must be removed from door for maintenance.		
23 01 50 61-0005 EA Setup Charge For Boiler Water Side Maintenance .....	3,215.82	
Note: Includes closing valves, draining, and positioning equipment needed for tube replacement.		
23 01 50 61-0006 EA Up To 100 HP, Hydrostatic Test - Boiler Maintenance .....	1,607.92	
Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.		
23 01 50 61-0007 EA >100 HP, Hydrostatic Test - Boiler Maintenance .....	3,215.82	
Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.		
23 01 50 61-0008 EA Removal And Replacement Of Handhole .....	100.49	
23 01 50 61-0009 EA Removal And Replacement Of Manhole.....	301.48	
23 01 50 61-0010 SF Sheet Metal Jacket Patch .....	11.04	

**23 01 50 61-0011 Boiler Tube Replacement (23 01 50 61-0001)**

23 01 50 61-0012 EA Removal Of Up To 2" Boiler Tube.....	241.18	
23 01 50 61-0013 EA Removal Of >2" To 3" Boiler Tube.....	301.49	
23 01 50 61-0014 EA Removal Of >3" To 4" Boiler Tube.....	422.07	
23 01 50 61-0015 LF Place 1-1/2" Boiler Tube Into Position For Termination.....	6.84	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0016 LF Place 2" Boiler Tube Into Position For Termination .....	7.89	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0017 LF Place 2-1/2" Boiler Tube Into Position For Termination .....	8.94	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0018 LF Place 3" Boiler Tube Into Position For Termination .....	12.38	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0019 LF Place 3-1/2" Boiler Tube Into Position For Termination .....	14.37	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0020 LF Place 4" Boiler Tube Into Position For Termination .....	18.09	
Note: Includes black steel tube, fasteners and accessories.		
23 01 50 61-0021 EA 1-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	30.15	
23 01 50 61-0022 EA 2" Rolled Boiler Tube Termination (2 Per New Tube).....	45.22	
23 01 50 61-0023 EA 2-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	60.29	
23 01 50 61-0024 EA 3" Rolled Boiler Tube Termination (2 Per New Tube).....	75.37	
23 01 50 61-0025 EA 3-1/2" Rolled Boiler Tube Termination (2 Per New Tube).....	90.45	
23 01 50 61-0026 EA 4" Rolled Boiler Tube Termination (2 Per New Tube).....	105.52	
23 01 50 61-0027 EA 1-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	90.45	
23 01 50 61-0028 EA 2" Welded Boiler Tube Termination (2 Per New Tube).....	120.60	
23 01 50 61-0029 EA 2-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	150.74	
23 01 50 61-0030 EA 3" Welded Boiler Tube Termination (2 Per New Tube).....	180.89	
23 01 50 61-0031 EA 3-1/2" Welded Boiler Tube Termination (2 Per New Tube).....	211.04	
23 01 50 61-0032 EA 4" Welded Boiler Tube Termination (2 Per New Tube).....	241.18	
23 01 50 61-0033 EA Plug Boiler Tube Hole Where Boiler Tube Is Not Replaced.....	247.71	

**23 01 50 61-0034 Cast Iron Boiler Section Replacement (23 01 50 61-0001)**

23 01 50 61-0035 EA Replace Front Section Of Weil McLain Model 80 Cast Iron Boiler .....	2,462.62	
23 01 50 61-0036 EA Replace Rear Section Of Weil McLain Model 80 Cast Iron Boiler .....	1,635.56	
23 01 50 61-0037 EA Replace Inside Section Of Weil McLain Model 80 Cast Iron Boiler.....	2,171.56	
23 01 50 61-0038 EA Replace Front Section Of Weil McLain Model 88 Cast Iron Boiler .....	4,426.18	
23 01 50 61-0039 EA Replace Rear Section Of Weil McLain Model 88 Cast Iron Boiler .....	3,152.11	
23 01 50 61-0040 EA Replace Inside Section Of Weil McLain Model 88 Cast Iron Boiler.....	3,869.47	
23 01 50 61-0041 EA Replace Front Section Of Weil McLain Model 94 Cast Iron Boiler .....	7,043.03	
23 01 50 61-0042 EA Replace Rear Section Of Weil McLain Model 94 Cast Iron Boiler .....	5,305.65	
23 01 50 61-0043 EA Replace Inside Section Of Weil McLain Model 94 Cast Iron Boiler.....	5,985.28	

**23 01 50 61-0044 Cast Iron Grate Replacement (23 01 50 61-0001)**

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 01 Operation and Maintenance of HVAC Systems****23 01 50 Operation and Maintenance of Central Heating Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 01 50 61-0045 SF Replace Cast Iron Boiler Grates, Prepared From Casting Mold.....	96.64	
Note: Includes support, linkages and removal of existing.		
23 01 50 61-0046 EA Prepare Cast Iron Boiler Grate Mold.....	1,152.09	
Note: Includes preparing unique size mold for grate casting. Mold to be used for multiple castings.		
<b>23 01 50 61-0047 Replacement Or Conversion Of Boiler Burners (23 01 50 61-0001)</b>		
Note: Includes mounting plate, mechanical and electrical labor for installation of burners.		
23 01 50 61-0048 EA 700 MBH Max Input Burner With 2" Boiler Connection, Screwed.....	6,557.29	1,154.10
23 01 50 61-0049 EA 2,100 MBH Max Input Burner With 2-1/2" Boiler Connection, Screwed.....	9,293.42	1,428.86
23 01 50 61-0050 EA 2,800 MBH Max Input Burner With 3" Boiler Connection, Screwed.....	11,008.09	1,731.04
23 01 50 61-0051 EA 3,800 MBH Max Input Burner With 4" Boiler Connection, Flanged.....	12,856.20	1,861.96
<b>23 01 50 61-0052 Boiler And Chiller Water Treatment (23 01 50 61)</b>		
Note: 3 LB chemical per 50 gallon system water.		
23 01 50 61-0053 LB Boil Out Boiler And System With Caustic Soda.....	0.90	
Note: Includes disposal after treatment.		
23 01 50 61-0054 LB Boil Out Boiler And System With Trisodium Phosphate.....	1.35	
Note: Includes disposal after treatment.		
23 01 50 61-0055 GAL Corrosion Resistant Chemical Treatment, Based On Gallons Of Chemical Required.....	84.22	
<b>23 01 60 Operation and Maintenance of Central Cooling Equipment (23 01)</b>		
<b>23 01 60 61 Central Cooling Equipment Repair (23 01 60)</b>		
<b>23 01 60 61-0001 Cooling Tower Repairs (23 01 60 61)</b>		
23 01 60 61-0002 EA Replace 6' Diameter 4 Blade, Cooling Tower Fan Blade.....	1,962.65	
23 01 60 61-0003 EA Replace 6' Diameter 5 Blade, Cooling Tower Fan Blade.....	2,297.23	
23 01 60 61-0004 EA Replace 6' Diameter 6 Blade, Cooling Tower Fan Blade.....	2,629.35	
23 01 60 61-0005 EA Replace 6' Diameter 7 Blade, Cooling Tower Fan Blade.....	3,089.69	
23 01 60 61-0006 EA Replace 6' Diameter 8 Blade, Cooling Tower Fan Blade.....	3,396.18	
23 01 60 61-0007 EA Replace 8' Diameter 4 Blade, Cooling Tower Fan Blade.....	2,180.41	
23 01 60 61-0008 EA Replace 8' Diameter 5 Blade, Cooling Tower Fan Blade.....	2,414.84	
23 01 60 61-0009 EA Replace 8' Diameter 6 Blade, Cooling Tower Fan Blade.....	2,817.79	
23 01 60 61-0010 EA Replace 8' Diameter 7 Blade, Cooling Tower Fan Blade.....	3,196.32	
23 01 60 61-0011 EA Replace 8' Diameter 8 Blade, Cooling Tower Fan Blade.....	3,510.14	
23 01 60 61-0012 EA Replace Individual Cooling Tower Fan Blade For 6' Diameter Fan.....	536.44	
23 01 60 61-0013 EA Replace Individual Cooling Tower Fan Blade For 8' Diameter Fan.....	560.71	
23 01 60 61-0014 EA Replace Individual Cooling Tower Fan Blade For 10' Diameter Fan.....	602.07	
23 01 60 61-0015 EA Replace Individual Cooling Tower Fan Blade For 12' Diameter Fan.....	700.81	
23 01 60 61-0016 EA Replace Individual Cooling Tower Fan Blade For 14' Diameter Fan.....	864.27	
23 01 60 61-0017 EA Replace Individual Cooling Tower Fan Blade For 16' Diameter Fan.....	1,158.38	
23 01 60 61-0018 EA Replace Individual Cooling Tower Fan Blade For 18' Diameter Fan.....	1,220.49	
23 01 60 61-0019 EA Replace Individual Cooling Tower Fan Blade For 20' Diameter Fan.....	1,313.67	
23 01 60 61-0020 EA Replace Counterflow Nozzle (1/2" - 2" NPT Thread).....	34.48	
23 01 60 61-0021 EA Replace 6' Polyvinyl Chloride (PVC) Splash Fill.....	23.18	
<b>23 01 60 71 Refrigerant Recovery/Recycling (23 01 60)</b>		
<b>23 01 60 71-0001 Refrigerant Recovery, Reclaim And Recycling (23 01 60 71)</b>		
23 01 60 71-0002 LB Recovery Of Refrigerant.....	9.21	
23 01 60 71-0003 LB Recovery And Recharging Of Refrigerant.....	17.28	
Note: Includes cleaning refrigerant gas prior to recharging.		
<b>23 05 Common Work Results For HVAC (23)</b>		
<b>23 05 13 Common Motor Requirements For HVAC Equipment (23 05)</b>		
Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor.		
<b>23 05 13 00-0001 Premium Efficient, Motors (23 05 13)</b>		
Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. Excludes installation. See CSI section 23 05 13 00-0216 for installation.		
<b>23 05 13 00-0002 Premium Efficient, Open Drip Proof Motors (23 05 13 00-0001)</b>		
Note: NEMA premium efficiency, open drip proof, three phase AC motors.		
<b>23 05 13 00-0003 Steel Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)</b>		
23 05 13 00-0004 EA 1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	588.10	
23 05 13 00-0005 EA 1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	665.92	
23 05 13 00-0006 EA 1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	780.73	
23 05 13 00-0007 EA 1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	655.71	
23 05 13 00-0008 EA 1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	696.53	
23 05 13 00-0009 EA 1-1/2 HP, 1,200 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	913.40	
23 05 13 00-0010 EA 2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	770.52	
23 05 13 00-0011 EA 2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	746.28	
23 05 13 00-0012 EA 2 HP, 1,200 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	933.81	
23 05 13 00-0013 EA 3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	780.73	
23 05 13 00-0014 EA 3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	804.97	



**Heating, Ventilating, And Air-Conditioning (HVAC) 23**  
**Common Work Results For HVAC 23 05**  
**Common Motor Requirements For HVAC Equipment 23 05 13**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0015 EA 3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,188.95	
23 05 13 00-0016 EA 5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	852.17	
23 05 13 00-0017 EA 5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	881.51	
23 05 13 00-0018 EA 5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,557.63	
23 05 13 00-0019 EA 7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,352.24	
23 05 13 00-0020 EA 7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,296.11	
23 05 13 00-0021 EA 7-1/2 HP, 1,200 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,867.62	
23 05 13 00-0022 EA 10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,546.15	
23 05 13 00-0023 EA 10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	1,569.11	
23 05 13 00-0024 EA 10 HP, 1,200 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,430.21	
23 05 13 00-0025 EA 15 HP, 3,600 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,196.76	
23 05 13 00-0026 EA 15 HP, 1,800 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,222.27	
23 05 13 00-0027 EA 15 HP, 1,200 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,277.27	
23 05 13 00-0028 EA 20 HP, 3,600 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,580.74	
23 05 13 00-0029 EA 20 HP, 1,800 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	2,789.96	
23 05 13 00-0030 EA 20 HP, 1,200 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,989.11	
23 05 13 00-0031 EA 25 HP, 3,600 RPM, 284TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,098.68	
23 05 13 00-0032 EA 25 HP, 1,800 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,401.02	
23 05 13 00-0033 EA 25 HP, 1,200 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	4,818.32	
23 05 13 00-0034 EA 30 HP, 3,600 RPM, 286TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,656.16	
23 05 13 00-0035 EA 30 HP, 1,800 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	3,718.67	
23 05 13 00-0036 EA 30 HP, 1,200 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	5,026.26	
23 05 13 00-0037 EA 40 HP, 3,600 RPM, 324TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	4,711.16	
23 05 13 00-0038 EA 40 HP, 1,800 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	4,851.49	
23 05 13 00-0039 EA 50 HP, 3,600 RPM, 326TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	5,130.87	
23 05 13 00-0040 EA 50 HP, 1,800 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	5,354.11	
23 05 13 00-0041 EA 60 HP, 3,600 RPM, 364TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	6,492.04	
23 05 13 00-0042 EA 60 HP, 1,800 RPM, 364T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	6,740.80	
23 05 13 00-0043 EA 75 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	8,516.57	
23 05 13 00-0044 EA 75 HP, 1,800 RPM, 365T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	8,274.19	
23 05 13 00-0045 EA 100 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	9,103.40	
23 05 13 00-0046 EA 100 HP, 1,800 RPM, 404T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	9,626.43	
23 05 13 00-0047 EA 125 HP, 3,600 RPM, 404TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	11,425.17	
23 05 13 00-0048 EA 125 HP, 1,800 RPM, 405T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	11,809.15	
23 05 13 00-0049 EA 150 HP, 3,600 RPM, 405TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor.....	14,093.93	
<b>23 05 13 00-0050 Cast Iron Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)</b>		
23 05 13 00-0051 EA 40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	7,160.50	
23 05 13 00-0052 EA 50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	8,668.38	
23 05 13 00-0053 EA 60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	11,005.46	
23 05 13 00-0054 EA 75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	12,253.10	
23 05 13 00-0055 EA 100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	13,486.70	
23 05 13 00-0056 EA 125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	14,564.67	
23 05 13 00-0057 EA 150 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	13,118.02	
23 05 13 00-0058 EA 150 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	17,153.06	
23 05 13 00-0059 EA 200 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	15,971.76	
23 05 13 00-0060 EA 200 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	16,392.74	
23 05 13 00-0061 EA 200 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor.....	22,548.00	
<b>23 05 13 00-0062 Premium Efficient, TEFC Motors (23 05 13 00-0001)</b>		
Note: NEMA premium efficiency, totally enclosed fan cooled, three phase AC motors.		
<b>23 05 13 00-0063 Steel Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)</b>		
23 05 13 00-0064 EA 1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, TEFC Motor.....	687.60	
23 05 13 00-0065 EA 1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	757.77	
23 05 13 00-0066 EA 1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	901.92	
23 05 13 00-0067 EA 1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	779.45	
23 05 13 00-0068 EA 1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	787.11	
23 05 13 00-0069 EA 2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	853.44	
23 05 13 00-0070 EA 2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	816.45	
23 05 13 00-0071 EA 3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	946.57	
23 05 13 00-0072 EA 3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	901.92	
23 05 13 00-0073 EA 3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,447.92	
23 05 13 00-0074 EA 5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,049.90	
23 05 13 00-0075 EA 5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	987.39	
23 05 13 00-0076 EA 5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,635.45	
23 05 13 00-0077 EA 7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,572.94	
23 05 13 00-0078 EA 7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,423.68	
23 05 13 00-0079 EA 10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,594.62	
23 05 13 00-0080 EA 10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor.....	1,607.38	
<b>23 05 13 00-0081 Cast Iron Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)</b>		
23 05 13 00-0082 EA 1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	981.01	
23 05 13 00-0083 EA 1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,098.38	
23 05 13 00-0084 EA 1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,035.87	
23 05 13 00-0085 EA 1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,016.73	
23 05 13 00-0086 EA 1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,307.59	
23 05 13 00-0087 EA 2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor.....	1,089.45	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 13 Common Motor Requirements For HVAC Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 05 13 00-0088	EA		2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	1,065.21	
23 05 13 00-0089	EA		2 HP, 1,200 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	1,328.00	
23 05 13 00-0090	EA		3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	1,176.20	
23 05 13 00-0091	EA		3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	1,209.36	
23 05 13 00-0092	EA		3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	1,654.58	
23 05 13 00-0093	EA		5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	1,447.92	
23 05 13 00-0094	EA		5 HP, 1,800 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	1,210.64	
23 05 13 00-0095	EA		5 HP, 1,200 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	1,919.93	
23 05 13 00-0096	EA		7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	1,676.27	
23 05 13 00-0097	EA		7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	1,615.04	
23 05 13 00-0098	EA		7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	2,737.65	
23 05 13 00-0099	EA		10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	1,964.58	
23 05 13 00-0100	EA		10 HP, 1,800 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	1,811.49	
23 05 13 00-0101	EA		10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	3,125.46	
23 05 13 00-0102	EA		15 HP, 3,600 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	2,707.04	
23 05 13 00-0103	EA		15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	2,477.41	
23 05 13 00-0104	EA		15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	4,168.99	
23 05 13 00-0105	EA		20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	2,971.11	
23 05 13 00-0106	EA		20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	3,004.27	
23 05 13 00-0107	EA		20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	5,550.57	
23 05 13 00-0108	EA		25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	3,876.85	
23 05 13 00-0109	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	3,929.16	
23 05 13 00-0110	EA		25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	6,280.27	
23 05 13 00-0111	EA		30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	4,606.55	
23 05 13 00-0112	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	4,661.41	
23 05 13 00-0113	EA		30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	7,254.91	
23 05 13 00-0114	EA		40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	6,314.72	
23 05 13 00-0115	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	6,095.29	
23 05 13 00-0116	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	9,040.89	
23 05 13 00-0117	EA		50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	6,907.92	
23 05 13 00-0118	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	6,661.71	
23 05 13 00-0119	EA		50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	10,925.09	
23 05 13 00-0120	EA		60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	9,704.25	
23 05 13 00-0121	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	9,585.61	
23 05 13 00-0122	EA		60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	13,260.90	
23 05 13 00-0123	EA		75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	11,289.94	
23 05 13 00-0124	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	11,208.30	
23 05 13 00-0125	EA		75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	15,442.35	
23 05 13 00-0126	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	13,919.16	
23 05 13 00-0127	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	17,232.16	
23 05 13 00-0128	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	19,821.83	
23 05 13 00-0129	EA		200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor .....	24,911.87	

**23 05 13 00-0130****Premium Efficient, Severe Duty Motors (23 05 13 00-0001)**

Note: NEMA premium efficiency, TEFC enclosure severe duty, three phase AC motors.

23 05 13 00-0131	EA		1 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,019.28	
23 05 13 00-0132	EA		1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,120.06	
23 05 13 00-0133	EA		1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,237.43	
23 05 13 00-0134	EA		1 HP, 900 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,738.78	
23 05 13 00-0135	EA		1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,159.61	
23 05 13 00-0136	EA		1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,141.75	
23 05 13 00-0137	EA		1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,447.92	
23 05 13 00-0138	EA		1-1/2 HP, 900 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,163.59	
23 05 13 00-0139	EA		2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,213.19	
23 05 13 00-0140	EA		2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,191.50	
23 05 13 00-0141	EA		2 HP, 1,200 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,467.06	
23 05 13 00-0142	EA		2 HP, 900 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,728.72	
23 05 13 00-0143	EA		3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,435.16	
23 05 13 00-0144	EA		3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,507.88	
23 05 13 00-0145	EA		3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,117.66	
23 05 13 00-0146	EA		3 HP, 900 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,959.62	
23 05 13 00-0147	EA		5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,765.57	
23 05 13 00-0148	EA		5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,534.67	
23 05 13 00-0149	EA		5 HP, 1,200 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,145.73	
23 05 13 00-0150	EA		5 HP, 900 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	4,711.16	
23 05 13 00-0151	EA		7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,303.91	
23 05 13 00-0152	EA		7-1/2 HP, 1,800 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	1,932.69	
23 05 13 00-0153	EA		7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	3,070.61	
23 05 13 00-0154	EA		7-1/2 HP, 900 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	5,387.28	
23 05 13 00-0155	EA		10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,453.17	
23 05 13 00-0156	EA		10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,314.12	
23 05 13 00-0157	EA		10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	3,989.11	
23 05 13 00-0158	EA		10 HP, 900 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	6,284.10	
23 05 13 00-0159	EA		15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	3,138.22	
23 05 13 00-0160	EA		15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	2,948.14	
23 05 13 00-0161	EA		15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	4,573.38	
23 05 13 00-0162	EA		15 HP, 900 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	8,389.00	
23 05 13 00-0163	EA		20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	3,661.26	
23 05 13 00-0164	EA		20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	3,162.46	
23 05 13 00-0165	EA		20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	6,213.93	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0166	EA		20 HP, 900 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	9,563.92	
23 05 13 00-0167	EA		25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	4,399.89	
23 05 13 00-0168	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	4,138.37	
23 05 13 00-0169	EA		25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	6,493.31	
23 05 13 00-0170	EA		30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	5,364.32	
23 05 13 00-0171	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	4,914.00	
23 05 13 00-0172	EA		30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	8,371.14	
23 05 13 00-0173	EA		40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	7,369.72	
23 05 13 00-0174	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	6,429.53	
23 05 13 00-0175	EA		40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	10,433.95	
23 05 13 00-0176	EA		50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	7,723.09	
23 05 13 00-0177	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	7,547.04	
23 05 13 00-0178	EA		50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	11,113.90	
23 05 13 00-0179	EA		60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	11,208.30	
23 05 13 00-0180	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	10,115.03	
23 05 13 00-0181	EA		60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	15,180.83	
23 05 13 00-0182	EA		75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	12,529.93	
23 05 13 00-0183	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	11,819.36	
23 05 13 00-0184	EA		75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	18,475.96	
23 05 13 00-0185	EA		100 HP, 3,600 RPM, 405TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	15,749.79	
23 05 13 00-0186	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	15,515.06	
23 05 13 00-0187	EA		100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	20,321.90	
23 05 13 00-0188	EA		125 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	18,506.58	
23 05 13 00-0189	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	18,342.01	
23 05 13 00-0190	EA		125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	22,957.50	
23 05 13 00-0191	EA		150 HP, 3,600 RPM, 445TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	21,695.83	
23 05 13 00-0192	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	21,487.89	
23 05 13 00-0193	EA		150 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	25,883.95	
23 05 13 00-0194	EA		200 HP, 3,600 RPM, 447TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor .....	25,691.32	
23 05 13 00-0195	EA		200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	25,849.51	
23 05 13 00-0196	EA		200 HP, 1,200 RPM, 449T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor.....	33,905.55	

**23 05 13 00-0197**

**Premium Efficient, Explosion Proof Motors (23 05 13 00-0001)**

Note: NEMA premium efficiency, explosion proof, three phase AC motors.

23 05 13 00-0198	EA		1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	1,359.90	
23 05 13 00-0199	EA		1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	1,408.37	
23 05 13 00-0200	EA		2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	1,535.94	
23 05 13 00-0201	EA		3 HP, 1,800 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	1,898.24	
23 05 13 00-0202	EA		5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	2,104.90	
23 05 13 00-0203	EA		7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	2,900.94	
23 05 13 00-0204	EA		10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	2,960.90	
23 05 13 00-0205	EA		15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	4,008.25	
23 05 13 00-0206	EA		20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	4,569.56	
23 05 13 00-0207	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	6,003.44	
23 05 13 00-0208	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	6,738.25	
23 05 13 00-0209	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	8,811.26	
23 05 13 00-0210	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	9,923.67	
23 05 13 00-0211	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	13,882.17	
23 05 13 00-0212	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	16,297.07	
23 05 13 00-0213	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	19,852.44	
23 05 13 00-0214	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	25,947.74	
23 05 13 00-0215	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor .....	29,606.45	

**23 05 13 00-0216**

**Motor Mounting (23 05 13)**

Note: Includes handling and motor installation on mounting base. Excludes mounting base.

23 05 13 00-0217	EA		1/2 HP Motor Mounting.....	169.42	86.20
23 05 13 00-0218	EA		3/4 HP Motor Mounting.....	195.21	107.76
23 05 13 00-0219	EA		1 HP Motor Mounting.....	208.82	107.76
23 05 13 00-0220	EA		1-1/2 HP Motor Mounting.....	224.49	107.76
23 05 13 00-0221	EA		2 HP Motor Mounting.....	242.69	129.30
23 05 13 00-0222	EA		3 HP Motor Mounting.....	280.60	129.30
23 05 13 00-0223	EA		5 HP Motor Mounting.....	332.57	215.50
23 05 13 00-0224	EA		7-1/2 HP Motor Mounting.....	427.59	215.50
23 05 13 00-0225	EA		10 HP Motor Mounting.....	561.21	377.13
23 05 13 00-0226	EA		15 HP Motor Mounting.....	690.72	377.13
23 05 13 00-0227	EA		20 HP Motor Mounting.....	816.31	538.76
23 05 13 00-0228	EA		25 HP Motor Mounting.....	925.70	538.76
23 05 13 00-0229	EA		30 HP Motor Mounting.....	1,122.41	538.76
23 05 13 00-0230	EA		40 HP Motor Mounting.....	1,264.70	808.14
23 05 13 00-0231	EA		50 HP Motor Mounting.....	1,403.03	808.14
23 05 13 00-0232	EA		75 HP Motor Mounting.....	1,694.22	1,185.27
23 05 13 00-0233	EA		100 HP Motor Mounting.....	2,040.75	1,185.27
23 05 13 00-0234	EA		125 HP Motor Mounting.....	2,494.26	1,616.28
23 05 13 00-0235	EA		150 HP Motor Mounting.....	2,896.56	1,616.28
23 05 13 00-0236	EA		200 HP Motor Mounting.....	3,325.67	1,939.54

**23 05 16 Expansion Fittings And Loops For HVAC Piping (23 05)**

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 16 Expansion Fittings And Loops For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 16 00-0001</b> <b>Stainless Steel Bellows Type Expansion Joints</b> <small>(23 05 16)</small> Note: Includes internal sleeves and external covers.		
<b>23 05 16 00-0002</b> <b>Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joints</b> <small>(23 05 16 00-0001)</small> Note: Carbon steel ends. Includes internal sleeves and external covers.		
23 05 16 00-0003     EA    1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	213.53	94.80
For 300 LB Rating, Add	5.95	
23 05 16 00-0004     EA    3/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	239.79	106.92
For 300 LB Rating, Add	6.52	
23 05 16 00-0005     EA    1" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	279.04	122.57
For 300 LB Rating, Add	8.50	
23 05 16 00-0006     EA    1-1/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	314.09	136.80
For 300 LB Rating, Add	10.20	
23 05 16 00-0007     EA    1-1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	339.36	147.03
For 300 LB Rating, Add	11.33	
23 05 16 00-0008     EA    2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	393.53	173.02
For 300 LB Rating, Add	11.90	
<b>23 05 16 00-0009</b> <b>Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joints</b> <small>(23 05 16 00-0001)</small> Note: Carbon steel ends. Includes internal sleeves and external covers.		
23 05 16 00-0010     EA    1-1/4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	663.19	94.73
For 300 LB Rating, Add	136.38	
23 05 16 00-0011     EA    1-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	723.63	113.68
For 300 LB Rating, Add	145.30	
23 05 16 00-0012     EA    2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	761.74	144.31
For 300 LB Rating, Add	145.32	
23 05 16 00-0013     EA    2-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	821.20	156.98
For 300 LB Rating, Add	156.09	
23 05 16 00-0014     EA    3" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	905.04	184.06
For 300 LB Rating, Add	168.67	
23 05 16 00-0015     EA    4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,114.41	308.55
For 300 LB Rating, Add	181.94	
23 05 16 00-0016     EA    5" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,478.39	315.14
For 300 LB Rating, Add	271.27	
23 05 16 00-0017     EA    6" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,368.54	350.16
For 300 LB Rating, Add	232.32	
23 05 16 00-0018     EA    8" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,760.32	447.42
For 300 LB Rating, Add	301.13	
23 05 16 00-0019     EA    10" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,238.96	544.69
For 300 LB Rating, Add	389.53	
23 05 16 00-0020     EA    12" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,939.69	412.60
For 300 LB Rating, Add	528.35	
23 05 16 00-0021     EA    14" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,742.20	778.13
For 300 LB Rating, Add	692.39	
23 05 16 00-0022     EA    16" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	4,834.77	855.94
For 300 LB Rating, Add	941.21	
<b>23 05 16 00-0023</b> <b>Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joints</b> <small>(23 05 16 00-0001)</small> Note: Carbon steel ends. Includes internal sleeves and external covers.		
23 05 16 00-0024     EA    1-1/4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	697.90	129.92
For 300 LB Rating, Add	109.54	
23 05 16 00-0025     EA    1-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	728.82	131.00
For 300 LB Rating, Add	116.70	
23 05 16 00-0026     EA    2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	737.81	135.34
For 300 LB Rating, Add	116.72	
23 05 16 00-0027     EA    2-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	796.95	147.57
For 300 LB Rating, Add	125.37	
23 05 16 00-0028     EA    3" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	890.46	173.55
For 300 LB Rating, Add	135.75	
23 05 16 00-0029     EA    4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,275.00	345.58
For 300 LB Rating, Add	146.13	
23 05 16 00-0030     EA    5" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,528.72	329.44
For 300 LB Rating, Add	217.88	
23 05 16 00-0031     EA    6" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,475.36	364.75
For 300 LB Rating, Add	186.60	
23 05 16 00-0032     EA    8" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,799.80	416.79
For 300 LB Rating, Add	241.86	
23 05 16 00-0033     EA    10" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,270.70	510.65
For 300 LB Rating, Add	312.86	
23 05 16 00-0034     EA    12" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	2,935.39	619.00
For 300 LB Rating, Add	424.37	
23 05 16 00-0035     EA    14" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	3,571.47	630.29
For 300 LB Rating, Add	577.65	
23 05 16 00-0036     EA    16" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	4,717.04	787.86
For 300 LB Rating, Add	785.25	

**23 05 17 Sleeves and Sleeve Seals for HVAC Piping** (23 05)

**23 05 17 00-0001**     **Wall Seals And Sleeves** (23 05 17)  
Note: Up to 12" walls. Excludes drilling hole.





	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 17 00-0002</b>	<b>Ductile Iron Wall Sleeve</b> <small>(23 05 17 00-0001)</small>	Note: Includes rubber gasket seal.		
	23 05 17 00-0003 EA 3" Ductile Iron Wall Sleeve With Rubber Gasket Seal .....		115.12	51.52
	23 05 17 00-0004 EA 4" Ductile Iron Wall Sleeve With Rubber Gasket Seal .....		138.59	60.17
	23 05 17 00-0005 EA 6" Ductile Iron Wall Sleeve With Rubber Gasket Seal .....		168.08	72.19
	23 05 17 00-0006 EA 8" Ductile Iron Wall Sleeve With Rubber Gasket Seal .....		244.43	108.23
	23 05 17 00-0007 EA 10" Ductile Iron Wall Sleeve With Rubber Gasket Seal .....		319.47	144.26
	23 05 17 00-0008 EA 12" Ductile Iron Wall Sleeve With Rubber Gasket Seal .....		396.31	180.41
<b>23 05 17 00-0009</b>	<b>Steel Pipe Sleeves</b> <small>(23 05 17 00-0001)</small>	Note: Includes link seals 12" length.		
	23 05 17 00-0010 EA 2" Steel Pipe Sleeve With Link Seals.....		123.82	52.01
	23 05 17 00-0011 EA 2-1/2" Steel Pipe Sleeve With Link Seals .....		144.88	56.38
	23 05 17 00-0012 EA 3" Steel Pipe Sleeve With Link Seals.....		165.23	60.74
	23 05 17 00-0013 EA 4" Steel Pipe Sleeve With Link Seals.....		202.61	72.87
	23 05 17 00-0014 EA 6" Steel Pipe Sleeve With Link Seals.....		279.45	91.00
	23 05 17 00-0015 EA 10" Steel Pipe Sleeve With Link Seals.....		466.86	109.26
	23 05 17 00-0016 EA 13.25" Inside Diameter Steel Pipe Sleeve With Link Seals.....		502.76	136.57
	23 05 17 00-0017 EA 17.25" Inside Diameter Steel Pipe Sleeve With Link Seals.....		741.67	168.03
	23 05 17 00-0018 EA 23.25" Inside Diameter Steel Pipe Sleeve With Link Seals.....		1,013.82	218.50
	23 05 17 00-0019 EA 29.25" Inside Diameter Steel Pipe Sleeve With Link Seals.....		999.46	273.13
<b>23 05 19</b>	<b>Meters And Gages For HVAC Piping</b> <small>(23 05)</small>			
<b>23 05 19 00-0001</b>	<b>Thermometers</b> <small>(23 05 19)</small>			
<b>23 05 19 00-0002</b>	<b>Dial Type, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometers</b> <small>(23 05 19 00-0001)</small>	Note: Various ranges.		
	23 05 19 00-0003 EA 2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer .....		109.16	37.64
	23 05 19 00-0004 EA 2-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer .....		126.22	37.64
	23 05 19 00-0005 EA 3-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer .....		126.22	37.64
<b>23 05 19 00-0006</b>	<b>Liquid Filled Industrial Union Connection Type Thermometers</b> <small>(23 05 19 00-0001)</small>	Note: Various ranges.		
	23 05 19 00-0007 EA 7" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer .....		143.27	37.64
	23 05 19 00-0008 EA 9" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer .....		143.27	37.64
	23 05 19 00-0009 EA 12" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer .....		178.92	37.64
	23 05 19 00-0010 EA 7" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer .....		147.92	37.64
	23 05 19 00-0011 EA 9" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer .....		155.67	37.64
	23 05 19 00-0012 EA 12" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer .....		183.57	37.64
<b>23 05 19 00-0013</b>	<b>Liquid Filled Industrial Separable Socket Type Thermometers</b> <small>(23 05 19 00-0001)</small>	Note: Various ranges. Socket connection for thermowell.		
	23 05 19 00-0014 EA 7" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer .....		143.27	37.64
	23 05 19 00-0015 EA 9" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer .....		143.27	37.64
	23 05 19 00-0016 EA 12" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer .....		178.92	37.64
	23 05 19 00-0017 EA 7" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer .....		163.42	37.64
	23 05 19 00-0018 EA 9" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer .....		178.92	37.64
	23 05 19 00-0019 EA 12" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer .....		182.87	37.64
<b>23 05 19 00-0020</b>	<b>1" NPT, 304 Stainless Steel Thermowells</b> <small>(23 05 19 00-0001)</small>			
	23 05 19 00-0021 EA 4" Long, 1" NPT, 304 Stainless Steel Thermowell .....		167.92	70.57
	23 05 19 00-0022 EA 8" Long, 1" NPT, 304 Stainless Steel Thermowell .....		167.86	70.57
<b>23 05 19 00-0023</b>	<b>Pressure Gauges</b> <small>(23 05 19)</small>			
<b>23 05 19 00-0024</b>	<b>Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges</b> <small>(23 05 19 00-0023)</small>			
	23 05 19 00-0025 EA 2" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....		39.33	14.70
	23 05 19 00-0026 EA 4" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....		48.48	14.70
<b>23 05 19 00-0027</b>	<b>Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges</b> <small>(23 05 19 00-0023)</small>			
	23 05 19 00-0028 EA 3-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....		169.05	14.70
	23 05 19 00-0029 EA 4-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....		169.05	14.70
	23 05 19 00-0030 EA 6" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....		216.48	14.70
	23 05 19 00-0031 EA 8-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....		495.76	14.70
<b>23 05 19 00-0032</b>	<b>Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges</b> <small>(23 05 19 00-0023)</small>	Note: Liquid filled.		
	23 05 19 00-0033 EA 2-1/2" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge .....		91.76	14.70
	23 05 19 00-0034 EA 4" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge.....		191.46	14.70

**23 Heating, Ventilating, And Air-Conditioning (HVAC)**

**23 05 Common Work Results For HVAC**

**23 05 19 Meters And Gages For HVAC Piping**



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
23 05 19 00-0035		<b>Steel Case, 0 To 10K PSI High Pressure, Pressure Gauges</b> <small>(23 05 19 00-0023)</small>			
23 05 19 00-0036	EA	4-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge .....	306.89		14.70
23 05 19 00-0037	EA	6-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge .....	306.89		14.70
23 05 19 00-0038	EA	8-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge .....	306.89		14.70
23 05 19 00-0039		<b>Gauge Accessories</b> <small>(23 05 19 00-0023)</small>			
23 05 19 00-0040	EA	Pete's Plug (Valve Cock For Removable Pressure Gauge Or Thermometer).....	58.49		11.76
23 05 19 00-0041	EA	1/4" Snubber Valve .....	43.97		11.76
23 05 19 00-0042	EA	1/4" Female Pipe Thread, Brass Gauge Cock .....	29.02		17.65
23 05 19 00-0043	EA	1/4" Male Pipe Thread, Brass Gauge Cock .....	26.99		17.65
23 05 19 00-0044	EA	1/4" Pressure Pigtail Steam Siphon .....	28.40		17.65
23 05 19 00-0045	EA	1/4" x 3" Long Black Steel Nipple.....	6.62		5.88
23 05 19 00-0046	EA	1/4" Steel Thread-O-Let.....	74.58		29.41
23 05 19 00-0047	EA	1/4", 300 LB, Black Steel Union .....	69.36		11.76
23 05 19 00-0048	EA	1/4", Black Steel Coupling.....	25.23		11.76
23 05 19 00-0049	EA	1/4", 300 LB, Black Steel Plug .....	14.50		7.05
23 05 19 00-0050	EA	1/4", 150 LB, Black Steel Cap.....	15.07		7.05
23 05 19 00-0051	LF	1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe.....	7.32		
23 05 19 00-0052	LF	1/4" Schedule 80, Plain End, Black Steel Pipe .....	7.16		
23 05 19 00-0053	LF	1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe.....	7.29		
23 05 19 00-0054	EA	1/4" Threaded, 800 LB, Forged Steel, Ball Valve.....	69.07		
23 05 19 00-0055		<b>Valve Lock Covers</b> <small>(23 05 19)</small>			
23 05 19 00-0056	EA	Valve Lock Cover.....	60.70		18.00
23 05 19 00-0057		<b>Venturi Flowmeters</b> <small>(23 05 19)</small>			
23 05 19 00-0058		<b>Threaded, Brass, Venturi Flowmeters</b> <small>(23 05 19 00-0057)</small>			
23 05 19 00-0059	EA	3/4" Threaded, Brass, Venturi Flowmeter .....	183.04		79.98
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
23 05 19 00-0060	EA	1" Threaded, Brass, Venturi Flowmeter .....	207.72		95.98
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
23 05 19 00-0061	EA	1-1/4" Threaded, Brass, Venturi Flowmeter .....	229.69		106.69
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
23 05 19 00-0062	EA	1-1/2" Threaded, Brass, Venturi Flowmeter .....	258.71		119.97
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
23 05 19 00-0063	EA	2" Threaded, Brass, Venturi Flowmeter .....	303.82		137.15
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
23 05 19 00-0064	EA	2-1/2" Threaded, Brass, Venturi Flowmeter .....	400.94		169.65
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
23 05 19 00-0065		<b>Butt Weld, Carbon Steel, Venturi Flowmeters</b> <small>(23 05 19 00-0057)</small>			
23 05 19 00-0066	EA	3" Butt Weld, Carbon Steel, Venturi Flowmeter .....	690.43		163.88
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
		<i>For Flanged Ends, Add</i>	126.93		
23 05 19 00-0067	EA	4" Butt Weld, Carbon Steel, Venturi Flowmeter .....	913.14		196.65
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
		<i>For Flanged Ends, Add</i>	181.94		
23 05 19 00-0068	EA	5" Butt Weld, Carbon Steel, Venturi Flowmeter .....	1,180.70		245.81
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
		<i>For Flanged Ends, Add</i>	241.17		
23 05 19 00-0069	EA	6" Butt Weld, Carbon Steel, Venturi Flowmeter .....	1,453.38		327.76
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
		<i>For Flanged Ends, Add</i>	279.25		
23 05 19 00-0070	EA	8" Butt Weld, Carbon Steel, Venturi Flowmeter .....	2,007.61		393.31
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
		<i>For Flanged Ends, Add</i>	427.35		
23 05 19 00-0071	EA	10" Butt Weld, Carbon Steel, Venturi Flowmeter .....	3,074.67		491.63
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
		<i>For Flanged Ends, Add</i>	731.99		
23 05 19 00-0072	EA	12" Butt Weld, Carbon Steel, Venturi Flowmeter .....	4,422.94		627.81
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
		<i>For Flanged Ends, Add</i>	1,108.56		
23 05 19 00-0073	EA	14" Butt Weld, Carbon Steel, Venturi Flowmeter .....	6,283.84		941.71
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
		<i>For Flanged Ends, Add</i>	1,540.14		
23 05 19 00-0074	EA	16" Butt Weld, Carbon Steel, Venturi Flowmeter .....	8,923.00		1,046.35
		<i>For Portable Venturi Flow Meter, Add</i>	995.00		
		<i>For Flanged Ends, Add</i>	2,390.60		
23 05 19 00-0075		<b>Turbine Flowmeter</b> <small>(23 05 19)</small>			
23 05 19 00-0076	EA	Saddle Mount Turbine Flowmeter .....	450.58		88.22
23 05 19 00-0077		<b>Sight Flow Indicator</b> <small>(23 05 19)</small>			



			MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 19 00-0078 Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator</b> <small>(23 05 19 00-0077)</small>					
23 05 19 00-0079	EA		1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	107.75	17.12
23 05 19 00-0080	EA		3/8" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	112.66	18.02
23 05 19 00-0081	EA		1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	121.42	18.93
23 05 19 00-0082	EA		3/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	139.59	25.52
23 05 19 00-0083	EA		1" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	167.17	30.92
23 05 19 00-0084	EA		1-1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	193.02	39.15
23 05 19 00-0085	EA		1-1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	264.88	45.27
23 05 19 00-0086	EA		2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	296.28	53.50
<b>23 05 19 00-0087 Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator</b> <small>(23 05 19 00-0077)</small>					
23 05 19 00-0088	EA		1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	135.78	17.12
23 05 19 00-0089	EA		3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	140.07	18.02
23 05 19 00-0090	EA		1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	150.69	18.93
23 05 19 00-0091	EA		3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	164.51	25.52
23 05 19 00-0092	EA		1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	177.76	30.92
23 05 19 00-0093	EA		1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	197.38	39.15
23 05 19 00-0094	EA		1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	349.60	45.27
23 05 19 00-0095	EA		2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	378.51	53.50
<b>23 05 19 00-0096 Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator</b> <small>(23 05 19 00-0077)</small>					
23 05 19 00-0097	EA		1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	189.98	17.12
23 05 19 00-0098	EA		3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	200.50	18.02
23 05 19 00-0099	EA		1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	217.35	18.93
23 05 19 00-0100	EA		3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	240.51	25.52
23 05 19 00-0101	EA		1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	277.43	30.92
23 05 19 00-0102	EA		1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	298.92	39.15
23 05 19 00-0103	EA		1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	573.86	45.27
23 05 19 00-0104	EA		2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	609.00	53.50
<b>23 05 19 00-0105 Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>					
23 05 19 00-0106	EA		1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	133.91	17.12
23 05 19 00-0107	EA		3/8" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	139.45	18.02
23 05 19 00-0108	EA		1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	147.58	18.93
23 05 19 00-0109	EA		3/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	163.88	25.52
23 05 19 00-0110	EA		1" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	177.14	30.92
23 05 19 00-0111	EA		1-1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	197.38	39.15
23 05 19 00-0112	EA		1-1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	345.86	45.27
23 05 19 00-0113	EA		2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	373.52	53.50
<b>23 05 19 00-0114 Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>					
23 05 19 00-0115	EA		1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	188.73	17.12
23 05 19 00-0116	EA		3/8" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	202.99	18.02
23 05 19 00-0117	EA		1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	221.09	18.93
23 05 19 00-0118	EA		3/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	240.51	25.52
23 05 19 00-0119	EA		1" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	277.43	30.92
23 05 19 00-0120	EA		1-1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	301.42	39.15

**23 Heating, Ventilating, And Air-Conditioning (HVAC)**

**23 05 Common Work Results For HVAC**

**23 05 19 Meters And Gages For HVAC Piping**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0121 EA 1-1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....	573.86	45.27
23 05 19 00-0122 EA 2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS) .....	609.00	53.50
<b>23 05 19 00-0123 Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>		
23 05 19 00-0124 EA 1" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400) .....	282.41	30.92
23 05 19 00-0125 EA 1-1/4" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400) .....	321.35	39.15
23 05 19 00-0126 EA 1-1/2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400) .....	365.79	45.27
23 05 19 00-0127 EA 2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400) .....	413.39	53.50
<b>23 05 19 00-0128 Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>		
23 05 19 00-0129 EA 1-1/2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS) .....	629.72	123.47
23 05 19 00-0130 EA 2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS) .....	713.34	156.75
23 05 19 00-0131 EA 3" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS) .....	1,025.47	183.99
23 05 19 00-0132 EA 4" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS) .....	1,564.21	308.44
23 05 19 00-0133 EA 6" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS) .....	2,435.38	350.05
<b>23 05 19 00-0134 Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicators</b> <small>(23 05 19 00-0077)</small>		
23 05 19 00-0135 EA 1" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F) .....	479.73	88.19
23 05 19 00-0136 EA 1-1/4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F) .....	565.13	102.89
23 05 19 00-0137 EA 1-1/2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F) .....	616.95	123.47
23 05 19 00-0138 EA 2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F) .....	774.08	156.75
23 05 19 00-0139 EA 3" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F) .....	1,099.91	183.99
23 05 19 00-0140 EA 4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F) .....	1,644.88	308.44
<b>23 05 19 00-0141 Water Flow Switches</b> <small>(23 05 19)</small>		
23 05 19 00-0142 EA Flexible Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BF-1) .....	196.91	34.65
23 05 19 00-0143 EA Rigid Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BR-1) .....	202.61	34.65
23 05 19 00-0144 EA Flexible Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BF-1) .....	250.79	34.65
23 05 19 00-0145 EA Rigid Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BR-1) .....	258.08	34.65
23 05 19 00-0146 EA Flexible Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BF-1) .....	209.91	34.65
23 05 19 00-0147 EA Rigid Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BR-1) .....	216.56	34.65
23 05 19 00-0148 EA Flexible Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BF-1) .....	263.79	34.65
23 05 19 00-0149 EA Rigid Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BR-1) .....	270.44	34.65
23 05 19 00-0150 EA Flexible Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SF-1) .....	484.68	34.65
23 05 19 00-0151 EA Rigid Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SR-1) .....	491.12	34.65
23 05 19 00-0152 EA Flexible Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SF-1) .....	552.36	34.65
23 05 19 00-0153 EA Rigid Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SR-1) .....	561.23	34.65
23 05 19 00-0154 EA Flexible Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SF-1) .....	499.99	34.65
23 05 19 00-0155 EA Rigid Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SR-1) .....	508.85	34.65
23 05 19 00-0156 EA Flexible Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SF-1) .....	567.67	34.65
23 05 19 00-0157 EA Rigid Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SR-1) .....	577.34	34.65
<b>23 05 23 General-Duty Valves For HVAC Piping</b> <small>(23 05)</small>		
<small>Note: Flanged valves exclude bolt and gasket sets. See CSI section 23 21 13 23-0576 for bolt and gasket sets.</small>		
<b>23 05 23 00-0001 Gate Valves</b> <small>(23 05 23)</small>		
<b>23 05 23 00-0002 125 LB Threaded, Brazed Or Soldered Bronze Gate Valves</b> <small>(23 05 23 00-0001)</small>		
<small>Note: 125 psi steam, basic rating. 200 psi cold working pressure. Class 125 (threaded).</small>		
23 05 23 00-0003 EA 1/4" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve .....	47.77	11.75
<i>For Work In Restricted Working Space, Add</i>		10.27
<i>For 150 LB Rating, Add</i>		1.35
<i>For 200 LB Rating, Add</i>		2.03
<i>For 250 LB Rating, Add</i>		3.38
<i>For 300 LB Rating, Add</i>		4.74
23 05 23 00-0004 EA 3/8" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve .....	49.57	11.75
<i>For Work In Restricted Working Space, Add</i>		10.81
<i>For 150 LB Rating, Add</i>		1.35
<i>For 200 LB Rating, Add</i>		2.03
<i>For 250 LB Rating, Add</i>		3.38
<i>For 300 LB Rating, Add</i>		4.74
23 05 23 00-0005 EA 1/2" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve .....	51.47	11.75
<i>For Work In Restricted Working Space, Add</i>		11.38
<i>For 150 LB Rating, Add</i>		1.35
<i>For 200 LB Rating, Add</i>		2.03
<i>For 250 LB Rating, Add</i>		3.38
<i>For 300 LB Rating, Add</i>		4.74
23 05 23 00-0006 EA 3/4" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve .....	67.28	12.93
<i>For Work In Restricted Working Space, Add</i>		15.34
<i>For 150 LB Rating, Add</i>		1.62
<i>For 200 LB Rating, Add</i>		2.42
<i>For 250 LB Rating, Add</i>		4.04
<i>For 300 LB Rating, Add</i>		5.65



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0007 EA 1" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve .....	86.28	14.70
<i>For Work In Restricted Working Space, Add</i>	18.57	
<i>For 150 LB Rating, Add</i>	2.44	
<i>For 200 LB Rating, Add</i>	3.66	
<i>For 250 LB Rating, Add</i>	6.10	
<i>For 300 LB Rating, Add</i>	8.54	
23 05 23 00-0008 EA 1-1/4" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve .....	111.29	15.64
<i>For Work In Restricted Working Space, Add</i>	23.52	
<i>For 150 LB Rating, Add</i>	3.29	
<i>For 200 LB Rating, Add</i>	4.93	
<i>For 250 LB Rating, Add</i>	8.22	
<i>For 300 LB Rating, Add</i>	11.51	
23 05 23 00-0009 EA 1-1/2" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve .....	131.90	18.10
<i>For Work In Restricted Working Space, Add</i>	27.14	
<i>For 150 LB Rating, Add</i>	4.15	
<i>For 200 LB Rating, Add</i>	6.22	
<i>For 250 LB Rating, Add</i>	10.36	
<i>For 300 LB Rating, Add</i>	14.51	
23 05 23 00-0010 EA 2" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve .....	163.53	21.40
<i>For Work In Restricted Working Space, Add</i>	32.07	
<i>For 150 LB Rating, Add</i>	5.66	
<i>For 200 LB Rating, Add</i>	8.49	
<i>For 250 LB Rating, Add</i>	14.16	
<i>For 300 LB Rating, Add</i>	19.82	
23 05 23 00-0011 EA 2-1/2" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve .....	305.81	28.89
<i>For Work In Restricted Working Space, Add</i>	43.29	
<i>For 150 LB Rating, Add</i>	16.15	
<i>For 200 LB Rating, Add</i>	24.23	
<i>For 250 LB Rating, Add</i>	40.38	
<i>For 300 LB Rating, Add</i>	56.53	
<i>For Chain Operated Type, Add</i>	72.68	
23 05 23 00-0012 EA 3" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve .....	359.57	33.55
<i>For Work In Restricted Working Space, Add</i>	49.95	
<i>For 150 LB Rating, Add</i>	19.31	
<i>For 200 LB Rating, Add</i>	28.96	
<i>For 250 LB Rating, Add</i>	48.27	
<i>For 300 LB Rating, Add</i>	67.57	
<i>For Chain Operated Type, Add</i>	86.88	
23 05 23 00-0013 EA 4" 125 LB Threaded, Brazed Or Soldered Bronze Gate Valve .....	649.34	37.88
<i>For Work In Restricted Working Space, Add</i>	56.82	
<i>For 150 LB Rating, Add</i>	45.99	
<i>For 200 LB Rating, Add</i>	68.99	
<i>For 250 LB Rating, Add</i>	114.99	
<i>For 300 LB Rating, Add</i>	160.98	
<i>For Chain Operated Type, Add</i>	206.97	
<b>23 05 23 00-0014 Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valves</b> <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating, 200 psi cold working pressure.		
23 05 23 00-0015 EA 1-1/2" Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	125.82	18.10
<i>For Work In Restricted Working Space, Add</i>	27.14	
<i>For 150 LB Rating, Add</i>	7.07	
<i>For 250 LB Rating, Add</i>	12.38	
<i>For Chain Operated Type, Add</i>	12.38	
23 05 23 00-0016 EA 2" Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	241.98	21.40
<i>For Work In Restricted Working Space, Add</i>	32.07	
<i>For 150 LB Rating, Add</i>	27.02	
<i>For 250 LB Rating, Add</i>	47.28	
<i>For Chain Operated Type, Add</i>	47.28	
23 05 23 00-0017 EA 2-1/2" Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	347.46	28.89
<i>For Work In Restricted Working Space, Add</i>	43.29	
<i>For 150 LB Rating, Add</i>	40.63	
<i>For 250 LB Rating, Add</i>	71.11	
<i>For Chain Operated Type, Add</i>	71.11	
23 05 23 00-0018 EA 3" Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	433.06	33.55
<i>For Work In Restricted Working Space, Add</i>	49.95	
<i>For 150 LB Rating, Add</i>	53.31	
<i>For 250 LB Rating, Add</i>	93.30	
<i>For Chain Operated Type, Add</i>	93.30	
23 05 23 00-0019 EA 4" 125 LB Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....	906.95	37.88
<i>For Work In Restricted Working Space, Add</i>	56.82	
<i>For 150 LB Rating, Add</i>	143.51	
<i>For 250 LB Rating, Add</i>	251.14	
<i>For Chain Operated Type, Add</i>	251.14	

**23 05 23 00-0020 Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valves** (23 05 23 00-0001)  
 Note: 125 psi steam, basic rating, 200 psi cold working pressure.

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0021 EA 1-1/2" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	318.59	123.47
For Work In Restricted Working Space, Add	46.42	
For 150 LB Rating, Add	47.52	
For 250 LB Rating, Add	81.94	
For 300 LB Rating, ASTM A182, Add	241.23	
For Chain Operated Type, Add	81.94	
23 05 23 00-0022 EA 2" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	367.37	156.75
For Work In Restricted Working Space, Add	58.79	
For 150 LB Rating, Add	49.70	
For 250 LB Rating, Add	85.70	
For 300 LB Rating, ASTM A182, Add	269.38	
For Chain Operated Type, Add	85.70	
23 05 23 00-0023 EA 2-1/2" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	402.40	156.92
For Work In Restricted Working Space, Add	59.03	
For 150 LB Rating, Add	59.63	
For 250 LB Rating, Add	102.82	
For 300 LB Rating, ASTM A182, Add	304.02	
For Chain Operated Type, Add	102.82	
23 05 23 00-0024 EA 3" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	487.30	183.99
For Work In Restricted Working Space, Add	69.08	
For 150 LB Rating, Add	74.54	
For 250 LB Rating, Add	128.52	
For 300 LB Rating, ASTM A182, Add	372.17	
For Chain Operated Type, Add	128.52	
23 05 23 00-0025 EA 4" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	729.24	308.44
For Work In Restricted Working Space, Add	115.96	
For 150 LB Rating, Add	99.39	
For 250 LB Rating, Add	171.36	
For 300 LB Rating, ASTM A182, Add	535.98	
For Chain Operated Type, Add	171.36	
23 05 23 00-0026 EA 5" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	838.69	315.05
For Work In Restricted Working Space, Add	117.96	
For 150 LB Rating, Add	129.19	
For 250 LB Rating, Add	222.75	
For 300 LB Rating, ASTM A182, Add	642.09	
For Chain Operated Type, Add	222.75	
23 05 23 00-0027 EA 6" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	987.38	350.05
For Work In Restricted Working Space, Add	131.74	
For 150 LB Rating, Add	158.99	
For 250 LB Rating, Add	274.12	
For 300 LB Rating, ASTM A182, Add	767.81	
For Chain Operated Type, Add	274.12	
23 05 23 00-0028 EA 8" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	1,463.81	447.29
For Work In Restricted Working Space, Add	166.69	
For 150 LB Rating, Add	263.37	
For 250 LB Rating, Add	454.09	
For 300 LB Rating, ASTM A182, Add	1,185.99	
For Chain Operated Type, Add	454.09	
23 05 23 00-0029 EA 10" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	1,880.04	544.53
For Work In Restricted Working Space, Add	204.20	
For 150 LB Rating, Add	347.82	
For 250 LB Rating, Add	599.69	
For 300 LB Rating, ASTM A182, Add	1,539.71	
For Chain Operated Type, Add	599.69	
23 05 23 00-0030 EA 12" Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve .....	2,538.54	661.22
For Work In Restricted Working Space, Add	247.52	
For 150 LB Rating, Add	496.91	
For 250 LB Rating, Add	856.75	
For 300 LB Rating, ASTM A182, Add	2,126.02	
For Chain Operated Type, Add	856.75	

**23 05 23 00-0031 Class 125 Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valves**  
(23 05 23 00-0001)

Note: 125 psi steam, basic rating. 200 psi cold working pressure.

23 05 23 00-0032 EA 1-1/2" 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....	286.41	18.10
For Work In Restricted Working Space, Add	27.14	
For 175 LB Rating, Add	97.98	
For 250 LB Rating, Add	146.97	
23 05 23 00-0033 EA 2" 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....	360.22	21.40
For Work In Restricted Working Space, Add	32.07	
For 175 LB Rating, Add	126.66	
For 250 LB Rating, Add	189.99	
23 05 23 00-0034 EA 2-1/2" 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....	429.95	28.89
For Work In Restricted Working Space, Add	43.29	
For 175 LB Rating, Add	142.83	
For 250 LB Rating, Add	214.24	
23 05 23 00-0035 EA 3" 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....	481.69	33.55
For Work In Restricted Working Space, Add	49.95	
For 175 LB Rating, Add	157.60	
For 250 LB Rating, Add	236.39	
23 05 23 00-0036 EA 4" 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve .....	624.63	37.88
For Work In Restricted Working Space, Add	56.82	
For 175 LB Rating, Add	217.62	
For 250 LB Rating, Add	326.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 23 00-0037 Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valves</b> <small>(23 05 23 00-0001)</small>		
<small>Note: 125 psi steam, basic rating. 200 psi cold working pressure for up to 12". 100 psi steam, basic rating. 150 psi cold working pressure for &gt;12" to 24". 50 psi steam, basic rating. 150 psi cold working pressure for &gt;24".</small>		
23 05 23 00-0038 EA 1-1/2" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	390.96	123.47
<i>For Work In Restricted Working Space, Add</i>	46.42	
<i>For 150 LB Rating, Add</i>	35.44	
<i>For 175 LB Rating, Add</i>	73.23	
<i>For 250 LB Rating, Add</i>	153.56	
<i>For Chain Operated Type, Add</i>	118.12	
23 05 23 00-0039 EA 2" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	439.23	156.75
<i>For Work In Restricted Working Space, Add</i>	58.79	
<i>For 150 LB Rating, Add</i>	36.49	
<i>For 175 LB Rating, Add</i>	75.41	
<i>For 250 LB Rating, Add</i>	158.11	
<i>For Chain Operated Type, Add</i>	121.63	
23 05 23 00-0040 EA 2-1/2" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	447.96	156.92
<i>For Work In Restricted Working Space, Add</i>	59.03	
<i>For 150 LB Rating, Add</i>	37.68	
<i>For 175 LB Rating, Add</i>	77.87	
<i>For 250 LB Rating, Add</i>	163.27	
<i>For Chain Operated Type, Add</i>	125.60	
23 05 23 00-0041 EA 3" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	506.65	183.99
<i>For Work In Restricted Working Space, Add</i>	69.08	
<i>For 150 LB Rating, Add</i>	41.46	
<i>For 175 LB Rating, Add</i>	85.68	
<i>For 250 LB Rating, Add</i>	179.65	
<i>For Chain Operated Type, Add</i>	138.19	
23 05 23 00-0042 EA 4" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	721.70	308.44
<i>For Work In Restricted Working Space, Add</i>	115.96	
<i>For 150 LB Rating, Add</i>	50.28	
<i>For 175 LB Rating, Add</i>	103.91	
<i>For 250 LB Rating, Add</i>	217.87	
<i>For Chain Operated Type, Add</i>	167.59	
23 05 23 00-0043 EA 5" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	860.85	315.05
<i>For Work In Restricted Working Space, Add</i>	117.96	
<i>For 150 LB Rating, Add</i>	70.15	
<i>For 175 LB Rating, Add</i>	144.97	
<i>For 250 LB Rating, Add</i>	303.97	
<i>For Chain Operated Type, Add</i>	233.83	
23 05 23 00-0044 EA 6" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	973.21	350.05
<i>For Work In Restricted Working Space, Add</i>	131.74	
<i>For 150 LB Rating, Add</i>	80.11	
<i>For 175 LB Rating, Add</i>	165.56	
<i>For 250 LB Rating, Add</i>	347.15	
<i>For Chain Operated Type, Add</i>	267.04	
23 05 23 00-0045 EA 8" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,458.90	447.29
<i>For Work In Restricted Working Space, Add</i>	166.69	
<i>For 150 LB Rating, Add</i>	135.49	
<i>For 175 LB Rating, Add</i>	280.01	
<i>For 250 LB Rating, Add</i>	587.12	
<i>For Chain Operated Type, Add</i>	451.63	
23 05 23 00-0046 EA 10" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,070.77	544.53
<i>For Work In Restricted Working Space, Add</i>	204.20	
<i>For 150 LB Rating, Add</i>	208.52	
<i>For 175 LB Rating, Add</i>	430.93	
<i>For 250 LB Rating, Add</i>	903.57	
<i>For Chain Operated Type, Add</i>	695.06	
23 05 23 00-0047 EA 12" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,586.90	661.22
<i>For Work In Restricted Working Space, Add</i>	247.52	
<i>For 150 LB Rating, Add</i>	264.28	
<i>For 175 LB Rating, Add</i>	546.17	
<i>For 250 LB Rating, Add</i>	1,145.20	
<i>For Chain Operated Type, Add</i>	880.93	
23 05 23 00-0048 EA 14" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	4,779.89	818.21
<i>For Work In Restricted Working Space, Add</i>	306.83	
<i>For 150 LB Rating, Add</i>	563.57	
<i>For 175 LB Rating, Add</i>	1,164.71	
<i>For 250 LB Rating, Add</i>	2,442.13	
23 05 23 00-0049 EA 16" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	6,122.39	900.03
<i>For Work In Restricted Working Space, Add</i>	337.51	
<i>For 150 LB Rating, Add</i>	749.60	
<i>For 175 LB Rating, Add</i>	1,549.18	
<i>For 250 LB Rating, Add</i>	3,248.28	
23 05 23 00-0050 EA 18" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	8,244.16	998.22
<i>For Work In Restricted Working Space, Add</i>	374.33	
<i>For 150 LB Rating, Add</i>	1,049.46	
<i>For 175 LB Rating, Add</i>	2,168.88	
<i>For 250 LB Rating, Add</i>	4,547.66	
23 05 23 00-0051 EA 20" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	10,400.28	1,125.03
<i>For Work In Restricted Working Space, Add</i>	421.89	
<i>For 150 LB Rating, Add</i>	1,349.10	
<i>For 175 LB Rating, Add</i>	2,788.14	
<i>For 250 LB Rating, Add</i>	5,846.09	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0052 EA 24" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	14,133.30	1,380.72
For Work In Restricted Working Space, Add	517.77	
For 150 LB Rating, Add	1,861.11	
For 175 LB Rating, Add	3,846.29	
For 250 LB Rating, Add	8,064.81	
23 05 23 00-0053 EA 30" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	29,178.30	2,250.06
For Work In Restricted Working Space, Add	843.77	
For 150 LB Rating, Add	3,954.86	
For 175 LB Rating, Add	8,173.37	
For 250 LB Rating, Add	17,137.72	
23 05 23 00-0054 EA 36" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	37,250.09	3,000.10
For Work In Restricted Working Space, Add	1,125.03	
For 150 LB Rating, Add	5,025.00	
For 175 LB Rating, Add	10,384.99	
For 250 LB Rating, Add	21,774.99	
23 05 23 00-0055 EA 42" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	44,203.55	4,096.19
For Work In Restricted Working Space, Add	1,536.07	
For 150 LB Rating, Add	5,862.50	
For 175 LB Rating, Add	12,115.83	
For 250 LB Rating, Add	25,404.15	
23 05 23 00-0056 EA 48" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	53,272.70	5,120.24
For Work In Restricted Working Space, Add	1,920.09	
For 150 LB Rating, Add	7,030.86	
For 175 LB Rating, Add	14,530.44	
For 250 LB Rating, Add	30,467.06	
23 05 23 00-0057 EA 54" Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	63,927.24	6,144.28
For Work In Restricted Working Space, Add	2,304.11	
For 150 LB Rating, Add	8,437.03	
For 175 LB Rating, Add	17,436.53	
For 250 LB Rating, Add	36,560.47	
<b>23 05 23 00-0058 Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valves (23 05 23 00-0001)</b>		
Note: 800 psig at 850 degrees F.		
23 05 23 00-0059 EA 1/4" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	90.40	18.93
For Work In Restricted Working Space, Add	10.27	
23 05 23 00-0060 EA 1/2" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	94.10	18.93
For Work In Restricted Working Space, Add	11.38	
23 05 23 00-0061 EA 3/4" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	114.82	25.52
For Work In Restricted Working Space, Add	15.34	
23 05 23 00-0062 EA 1" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	139.28	30.92
For Work In Restricted Working Space, Add	18.57	
23 05 23 00-0063 EA 1-1/4" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	203.27	39.15
For Work In Restricted Working Space, Add	23.52	
23 05 23 00-0064 EA 1-1/2" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	239.07	45.27
For Work In Restricted Working Space, Add	27.14	
23 05 23 00-0065 EA 2" Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve.....	296.61	53.50
For Work In Restricted Working Space, Add	32.07	
<b>23 05 23 00-0066 Ball Valves (23 05 23)</b>		
See CSI section 23 23 13 00-0000 for refrigeration valves.		
<b>23 05 23 00-0067 Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0066)</b>		
Note: 125 LB WSP.		
23 05 23 00-0068 EA 1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	43.58	11.75
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	2.54	
For Work In Restricted Working Space, Add	11.38	
23 05 23 00-0069 EA 3/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	59.80	12.93
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	3.90	
For Work In Restricted Working Space, Add	15.34	
23 05 23 00-0070 EA 1" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	73.59	14.70
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	5.27	
For Work In Restricted Working Space, Add	18.57	
23 05 23 00-0071 EA 1-1/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	98.05	15.64
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	8.84	
For Work In Restricted Working Space, Add	23.52	
23 05 23 00-0072 EA 1-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	115.54	18.10
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	11.29	
For Work In Restricted Working Space, Add	27.14	
23 05 23 00-0073 EA 2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	138.33	21.40
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	14.14	
For Work In Restricted Working Space, Add	32.07	
23 05 23 00-0074 EA 2-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	292.61	28.89
For Extension Stems And Sleeves On Insulated Pipe, Add	2.63	
For Full Port, Add	66.74	
For Work In Restricted Working Space, Add	43.29	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0075 EA 3" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	337.62	33.55
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	77.00	
<i>For Work In Restricted Working Space, Add</i>	49.95	
23 05 23 00-0076 EA 4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	422.70	37.88
<i>For Extension Stems And Sleeves On Insulated Pipe, Add</i>	2.63	
<i>For Full Port, Add</i>	104.99	
<i>For Work In Restricted Working Space, Add</i>	56.82	
<b>23 05 23 00-0077 Screwed, 150 LB, Full Port, Carbon Steel Ball Valves (23 05 23 00-0066)</b>		
23 05 23 00-0078 EA 1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	45.03	11.75
<i>For Work In Restricted Working Space, Add</i>	10.27	
23 05 23 00-0079 EA 1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	49.65	11.75
<i>For Work In Restricted Working Space, Add</i>	11.38	
23 05 23 00-0080 EA 3/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	68.06	12.93
<i>For Work In Restricted Working Space, Add</i>	15.34	
23 05 23 00-0081 EA 1" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	84.66	14.70
<i>For Work In Restricted Working Space, Add</i>	18.57	
23 05 23 00-0082 EA 1-1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	117.31	15.64
<i>For Work In Restricted Working Space, Add</i>	23.52	
23 05 23 00-0083 EA 1-1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	139.75	18.10
<i>For Work In Restricted Working Space, Add</i>	27.14	
23 05 23 00-0084 EA 2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve.....	174.78	21.40
<i>For Work In Restricted Working Space, Add</i>	32.07	
<b>23 05 23 00-0085 Flanged, 150 LB, Full Port, Carbon Steel Ball Valves (23 05 23 00-0066)</b>		
23 05 23 00-0086 EA 4" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve.....	1,010.12	308.44
<i>For Work In Restricted Working Space, Add</i>	115.96	
23 05 23 00-0087 EA 6" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve.....	1,587.28	350.05
<i>For Work In Restricted Working Space, Add</i>	131.74	
23 05 23 00-0088 EA 8" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve.....	3,258.14	447.29
<i>For Work In Restricted Working Space, Add</i>	166.69	
<b>23 05 23 00-0089 Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valves (23 05 23 00-0066)</b>		
23 05 23 00-0090 EA 1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	42.85	11.75
<i>For True Union Socket Or Thread Type, Add</i>	3.96	
<i>For Work In Restricted Working Space, Add</i>	11.38	
23 05 23 00-0091 EA 3/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	56.78	12.93
<i>For True Union Socket Or Thread Type, Add</i>	4.94	
<i>For Work In Restricted Working Space, Add</i>	15.34	
23 05 23 00-0092 EA 1" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	69.76	14.70
<i>For True Union Socket Or Thread Type, Add</i>	6.40	
<i>For Work In Restricted Working Space, Add</i>	18.57	
23 05 23 00-0093 EA 1-1/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	88.74	15.64
<i>For True Union Socket Or Thread Type, Add</i>	8.25	
<i>For Work In Restricted Working Space, Add</i>	23.52	
23 05 23 00-0094 EA 1-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	108.44	18.10
<i>For True Union Socket Or Thread Type, Add</i>	11.94	
<i>For Work In Restricted Working Space, Add</i>	27.14	
23 05 23 00-0095 EA 2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	129.82	21.40
<i>For True Union Socket Or Thread Type, Add</i>	14.78	
<i>For Work In Restricted Working Space, Add</i>	32.07	
23 05 23 00-0096 EA 2-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	193.63	28.89
<i>For True Union Socket Or Thread Type, Add</i>	27.31	
<i>For Work In Restricted Working Space, Add</i>	43.29	
23 05 23 00-0097 EA 3" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	250.37	33.55
<i>For True Union Socket Or Thread Type, Add</i>	42.29	
<i>For Work In Restricted Working Space, Add</i>	49.95	
23 05 23 00-0098 EA 4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve.....	349.76	37.88
<i>For True Union Socket Or Thread Type, Add</i>	74.09	
<i>For Work In Restricted Working Space, Add</i>	56.82	
<b>23 05 23 00-0099 Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0066)</b>		
23 05 23 00-0100 EA 1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	68.31	17.64
<i>For Full Port, Add</i>	7.63	
<i>For Work In Restricted Working Space, Add</i>	15.41	
23 05 23 00-0101 EA 3/8" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	71.02	17.64
<i>For Full Port, Add</i>	7.63	
<i>For Work In Restricted Working Space, Add</i>	16.22	
23 05 23 00-0102 EA 1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	73.85	17.64
<i>For Full Port, Add</i>	7.63	
<i>For Work In Restricted Working Space, Add</i>	17.07	
23 05 23 00-0103 EA 3/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	94.66	19.40
<i>For Full Port, Add</i>	8.09	
<i>For Work In Restricted Working Space, Add</i>	23.01	
23 05 23 00-0104 EA 1" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	119.45	22.05
<i>For Full Port, Add</i>	11.98	
<i>For Work In Restricted Working Space, Add</i>	27.85	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0105 EA 1-1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....	154.03	23.46
For Full Port, Add	16.40	
For Work In Restricted Working Space, Add	35.28	
23 05 23 00-0106 EA 1-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....	184.12	27.17
For Full Port, Add	21.80	
For Work In Restricted Working Space, Add	40.70	
23 05 23 00-0107 EA 2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	239.19	32.10
For Full Port, Add	35.48	
For Work In Restricted Working Space, Add	48.11	
23 05 23 00-0108 EA 2-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve .....	407.78	43.35
For Full Port, Add	86.10	
For Work In Restricted Working Space, Add	64.94	
23 05 23 00-0109 EA 3" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve.....	553.58	50.32
For Full Port, Add	136.72	
For Work In Restricted Working Space, Add	74.93	
<b>23 05 23 00-0110 Globe Valves (23 05 23)</b>		
<b>23 05 23 00-0111 Threaded Or Sweated, 125 LB, Bronze Body, Globe Valves (23 05 23 00-0110)</b>		
23 05 23 00-0112 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	53.35	11.75
For 150 LB Rating, Add	4.78	
For 200 LB Rating, Add	5.86	
For 250 LB Rating, Add	6.93	
For 300 LB Rating, Add	8.48	
For Work In Restricted Working Space, Add	11.38	
23 05 23 00-0113 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	49.65	11.75
For 150 LB Rating, Add	4.78	
For 200 LB Rating, Add	5.86	
For 250 LB Rating, Add	6.93	
For 300 LB Rating, Add	8.48	
For Work In Restricted Working Space, Add	10.27	
23 05 23 00-0114 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	59.04	11.75
For 150 LB Rating, Add	7.13	
For 200 LB Rating, Add	8.74	
For 250 LB Rating, Add	10.35	
For 300 LB Rating, Add	12.65	
For Work In Restricted Working Space, Add	10.81	
23 05 23 00-0115 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	60.94	11.75
For 150 LB Rating, Add	7.13	
For 200 LB Rating, Add	8.74	
For 250 LB Rating, Add	10.35	
For 300 LB Rating, Add	12.65	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	40.48	
For Work In Restricted Working Space, Add	11.38	
23 05 23 00-0116 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	76.06	12.35
For 150 LB Rating, Add	7.73	
For 200 LB Rating, Add	9.47	
For 250 LB Rating, Add	11.22	
For 300 LB Rating, Add	13.71	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	47.88	
For Work In Restricted Working Space, Add	15.34	
23 05 23 00-0117 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	95.58	12.35
For 150 LB Rating, Add	10.44	
For 200 LB Rating, Add	12.80	
For 250 LB Rating, Add	15.16	
For 300 LB Rating, Add	18.53	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	61.82	
For Work In Restricted Working Space, Add	18.57	
23 05 23 00-0118 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	136.59	15.64
For 150 LB Rating, Add	18.04	
For 200 LB Rating, Add	22.11	
For 250 LB Rating, Add	26.19	
For 300 LB Rating, Add	32.00	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	95.37	
For Work In Restricted Working Space, Add	23.52	
23 05 23 00-0119 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	173.61	18.10
For 150 LB Rating, Add	25.78	
For 200 LB Rating, Add	31.60	
For 250 LB Rating, Add	37.42	
For 300 LB Rating, Add	45.74	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	127.66	
For Work In Restricted Working Space, Add	27.14	
23 05 23 00-0120 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	204.67	21.40
For 150 LB Rating, Add	30.31	
For 200 LB Rating, Add	37.15	
For 250 LB Rating, Add	44.00	
For 300 LB Rating, Add	53.77	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	150.31	
For Work In Restricted Working Space, Add	32.07	
23 05 23 00-0121 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve .....	242.87	28.89
For 150 LB Rating, Add	30.56	
For 200 LB Rating, Add	37.46	
For 250 LB Rating, Add	44.36	
For 300 LB Rating, Add	54.21	
For Work In Restricted Working Space, Add	43.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0122 EA 3" Globe Valve, Bronze, Threaded Or Soldered, 125 LB.....	387.33	33.55
For 150 LB Rating, Add	68.46	
For 200 LB Rating, Add	83.92	
For 250 LB Rating, Add	99.37	
For 300 LB Rating, Add	121.46	
For Work In Restricted Working Space, Add	49.95	
<b>23 05 23 00-0123 Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves</b> <small>(23 05 23 00-0110)</small>		
23 05 23 00-0124 EA 2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	278.67	21.40
For 150 LB Rating, Add	53.25	
For 200 LB Rating, Add	65.27	
For 250 LB Rating, Add	77.30	
For 300 LB Rating, Add	94.47	
For Chain Operated Type, Add	143.43	
For Work In Restricted Working Space, Add	32.07	
23 05 23 00-0125 EA 2-1/2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	352.50	28.89
For 150 LB Rating, Add	64.54	
For 200 LB Rating, Add	79.12	
For 250 LB Rating, Add	93.69	
For 300 LB Rating, Add	114.51	
For Chain Operated Type, Add	173.85	
For Work In Restricted Working Space, Add	43.29	
23 05 23 00-0126 EA 3" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	416.35	33.55
For 150 LB Rating, Add	77.45	
For 200 LB Rating, Add	94.94	
For 250 LB Rating, Add	112.43	
For 300 LB Rating, Add	137.42	
For Chain Operated Type, Add	208.62	
For Work In Restricted Working Space, Add	49.95	
23 05 23 00-0127 EA 4" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	522.47	37.88
For 150 LB Rating, Add	103.27	
For 200 LB Rating, Add	126.59	
For 250 LB Rating, Add	149.91	
For 300 LB Rating, Add	183.22	
For Chain Operated Type, Add	278.16	
For Work In Restricted Working Space, Add	56.80	
<b>23 05 23 00-0128 Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves</b> <small>(23 05 23 00-0110)</small>		
23 05 23 00-0129 EA 2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	336.37	156.75
For 150 LB Rating, Add	43.52	
For 250 LB Rating, Add	63.18	
For Chain Operated Type, Add	70.20	
For Work In Restricted Working Space, Add	58.79	
23 05 23 00-0130 EA 2-1/2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	367.92	156.92
For 150 LB Rating, Add	53.06	
For 250 LB Rating, Add	77.02	
For Chain Operated Type, Add	85.58	
For Work In Restricted Working Space, Add	59.03	
23 05 23 00-0131 EA 3" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	435.65	183.99
For 150 LB Rating, Add	63.67	
For 250 LB Rating, Add	92.42	
For Chain Operated Type, Add	102.69	
For Work In Restricted Working Space, Add	69.08	
23 05 23 00-0132 EA 4" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	660.36	308.44
For 150 LB Rating, Add	84.89	
For 250 LB Rating, Add	123.23	
For Chain Operated Type, Add	136.92	
For Work In Restricted Working Space, Add	115.96	
23 05 23 00-0133 EA 5" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	774.00	315.05
For 150 LB Rating, Add	118.05	
For 250 LB Rating, Add	171.36	
For Chain Operated Type, Add	190.40	
For Work In Restricted Working Space, Add	117.96	
23 05 23 00-0134 EA 6" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	920.49	350.05
For 150 LB Rating, Add	149.22	
For 250 LB Rating, Add	216.61	
For Chain Operated Type, Add	240.68	
For Work In Restricted Working Space, Add	131.74	
23 05 23 00-0135 EA 8" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	1,295.85	447.29
For 150 LB Rating, Add	229.47	
For 250 LB Rating, Add	333.09	
For Chain Operated Type, Add	370.11	
For Work In Restricted Working Space, Add	166.69	
23 05 23 00-0136 EA 10" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	1,808.09	544.53
For 150 LB Rating, Add	349.50	
For 250 LB Rating, Add	507.34	
For Chain Operated Type, Add	563.72	
For Work In Restricted Working Space, Add	204.20	
23 05 23 00-0137 EA 12" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve .....	2,958.46	661.22
For 150 LB Rating, Add	661.36	
For 250 LB Rating, Add	960.03	
For Chain Operated Type, Add	1,066.71	
For Work In Restricted Working Space, Add	247.52	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)**

**23 05 Common Work Results For HVAC**

**23 05 23 General-Duty Valves For HVAC Piping**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0138			<b>Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valves</b> <small>(23 05 23 00-0110)</small>		
23 05 23 00-0139	EA		1/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....49.61	49.61	11.75
			For 150 LB Rating, Add	3.62	
			For 200 LB Rating, Add	4.43	
			For 300 LB Rating, Add	6.42	
			For Work In Restricted Working Space, Add	11.38	
23 05 23 00-0140	EA		1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....45.91	45.91	11.75
			For 150 LB Rating, Add	3.62	
			For 200 LB Rating, Add	4.43	
			For 300 LB Rating, Add	6.42	
			For Work In Restricted Working Space, Add	10.27	
23 05 23 00-0141	EA		3/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....47.71	47.71	11.75
			For 150 LB Rating, Add	3.62	
			For 200 LB Rating, Add	4.43	
			For 300 LB Rating, Add	6.42	
			For Work In Restricted Working Space, Add	10.81	
23 05 23 00-0142	EA		1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....50.39	50.39	11.75
			For 150 LB Rating, Add	3.86	
			For 200 LB Rating, Add	4.73	
			For 300 LB Rating, Add	6.85	
			For Work In Restricted Working Space, Add	11.38	
23 05 23 00-0143	EA		3/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....68.39	68.39	12.35
			For 150 LB Rating, Add	5.35	
			For 200 LB Rating, Add	6.56	
			For 300 LB Rating, Add	9.49	
			For Work In Restricted Working Space, Add	15.34	
23 05 23 00-0144	EA		1" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....84.54	84.54	12.35
			For 150 LB Rating, Add	7.02	
			For 200 LB Rating, Add	8.61	
			For 300 LB Rating, Add	12.46	
			For Work In Restricted Working Space, Add	18.57	
23 05 23 00-0145	EA		1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....112.05	112.05	15.64
			For 150 LB Rating, Add	10.43	
			For 200 LB Rating, Add	12.79	
			For 300 LB Rating, Add	18.51	
			For Work In Restricted Working Space, Add	23.52	
23 05 23 00-0146	EA		1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....129.68	129.68	18.10
			For 150 LB Rating, Add	12.16	
			For 200 LB Rating, Add	14.91	
			For 300 LB Rating, Add	21.58	
			For Work In Restricted Working Space, Add	27.14	
23 05 23 00-0147	EA		2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....165.99	165.99	21.40
			For 150 LB Rating, Add	18.32	
			For 200 LB Rating, Add	22.45	
			For 300 LB Rating, Add	32.50	
			For Work In Restricted Working Space, Add	32.07	
23 05 23 00-0148	EA		2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....263.37	263.37	31.40
			For 150 LB Rating, Add	33.04	
			For 200 LB Rating, Add	40.50	
			For 300 LB Rating, Add	58.62	
			For Work In Restricted Working Space, Add	47.03	
23 05 23 00-0149	EA		3" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve .....361.41	361.41	36.45
			For 150 LB Rating, Add	55.96	
			For 200 LB Rating, Add	68.59	
			For 300 LB Rating, Add	99.28	
			For Work In Restricted Working Space, Add	54.27	
23 05 23 00-0150			<b>Flanged, 125 LB, Iron Body, Angle Globe Valves</b> <small>(23 05 23 00-0110)</small>		
23 05 23 00-0151	EA		2" Flanged, 125 LB, Iron Body, Angle Globe Valve .....557.19	557.19	156.75
			For 250 LB Rating, Add	216.73	
			For Chain Operated Type, Add	140.87	
			For Work In Restricted Working Space, Add	58.79	
23 05 23 00-0152	EA		2-1/2" Flanged, 125 LB, Iron Body, Angle Globe Valve .....623.96	623.96	156.92
			For 250 LB Rating, Add	256.31	
			For Chain Operated Type, Add	166.60	
			For Work In Restricted Working Space, Add	59.03	
23 05 23 00-0153	EA		3" Flanged, 125 LB, Iron Body, Angle Globe Valve .....733.68	733.68	183.99
			For 250 LB Rating, Add	302.05	
			For Chain Operated Type, Add	196.33	
			For Work In Restricted Working Space, Add	69.08	
23 05 23 00-0154	EA		4" Flanged, 125 LB, Iron Body, Angle Globe Valve .....1,105.54	1,105.54	308.44
			For 250 LB Rating, Add	431.41	
			For Chain Operated Type, Add	280.42	
			For Work In Restricted Working Space, Add	115.96	
23 05 23 00-0155	EA		5" Flanged, 125 LB, Iron Body, Angle Globe Valve .....1,681.82	1,681.82	315.05
			For 250 LB Rating, Add	773.17	
			For Chain Operated Type, Add	502.56	
			For Work In Restricted Working Space, Add	117.96	
23 05 23 00-0156	EA		6" Flanged, 125 LB, Iron Body, Angle Globe Valve .....1,727.76	1,727.76	350.05
			For 250 LB Rating, Add	773.17	
			For Chain Operated Type, Add	502.56	
			For Work In Restricted Working Space, Add	131.74	



<b>Heating, Ventilating, And Air-Conditioning (HVAC)</b>	<b>23</b>
<b>Common Work Results For HVAC</b>	<b>23 05</b>
<b>General-Duty Valves For HVAC Piping</b>	<b>23 05 23</b>

23

	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0157	EA			8" Flanged, 125 LB, Iron Body, Angle Globe Valve ..... <i>For 250 LB Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,077.72 1,513.25 983.61 166.69	447.29
<b>23 05 23 00-0158</b>				<b>Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valves <small>(23 05 23 00-0110)</small></b> Note: 800 PSIG at 850 degrees F.		
23 05 23 00-0159	EA			1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve..... <i>For Work In Restricted Working Space, Add</i>	108.89 10.27	19.05
23 05 23 00-0160	EA			1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve..... <i>For Work In Restricted Working Space, Add</i>	112.59 11.38	19.05
23 05 23 00-0161	EA			3/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve..... <i>For Work In Restricted Working Space, Add</i>	136.05 15.34	25.63
23 05 23 00-0162	EA			1" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve..... <i>For Work In Restricted Working Space, Add</i>	167.36 18.57	30.92
23 05 23 00-0163	EA			1-1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve..... <i>For Work In Restricted Working Space, Add</i>	259.21 23.52	39.15
23 05 23 00-0164	EA			1-1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve..... <i>For Work In Restricted Working Space, Add</i>	308.93 27.14	45.27
23 05 23 00-0165	EA			2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve..... <i>For Work In Restricted Working Space, Add</i>	388.38 32.07	53.50
<b>23 05 23 00-0166</b>				<b>Triple Duty Valves <small>(23 05 23)</small></b> Note: Valves function as a shut-off, check valve and calibrated balancing valve.		
<b>23 05 23 00-0167</b>				<b>Straight Pattern, Triple Duty Valves <small>(23 05 23 00-0166)</small></b> Note: Bell & Gossett 3DX and 3DS-S Series.		
23 05 23 00-0168	EA			1" Threaded, Straight Pattern, Triple Duty Valve .....	226.03	12.35
23 05 23 00-0169	EA			1-1/4" Threaded, Straight Pattern, Triple Duty Valve.....	264.19	15.64
23 05 23 00-0170	EA			1-1/2" Threaded, Straight Pattern, Triple Duty Valve.....	288.68	18.10
23 05 23 00-0171	EA			2" Flanged, Straight Pattern, Triple Duty Valve .....	735.00	156.75
23 05 23 00-0172	EA			2-1/2" Flanged, Straight Pattern, Triple Duty Valve.....	819.43	156.92
23 05 23 00-0173	EA			3" Flanged, Straight Pattern, Triple Duty Valve .....	902.49	183.99
23 05 23 00-0174	EA			4" Flanged, Straight Pattern, Triple Duty Valve .....	1,817.70	308.44
23 05 23 00-0175	EA			5" Flanged, Straight Pattern Triple Duty Valve .....	2,081.50	315.05
23 05 23 00-0176	EA			6" Flanged, Straight Pattern, Triple Duty Valve .....	2,743.90	350.05
23 05 23 00-0177	EA			8" Flanged, Straight Pattern, Triple Duty Valve .....	3,684.42	447.29
23 05 23 00-0178	EA			10" Flanged, Straight Pattern, Triple Duty Valve .....	5,847.79	544.53
<b>23 05 23 00-0179</b>				<b>Flanged, Angle Pattern, Triple Duty Valves <small>(23 05 23 00-0166)</small></b> Note: Bell & Gossett 3D-S Series.		
23 05 23 00-0180	EA			2" Flanged, Angle Pattern, Triple Duty Valve.....	719.51	156.75
23 05 23 00-0181	EA			2-1/2" Flanged, Angle Pattern, Triple Duty Valve .....	800.84	156.92
23 05 23 00-0182	EA			3" Flanged, Angle Pattern, Triple Duty Valve.....	887.00	183.99
23 05 23 00-0183	EA			4" Flanged, Angle Pattern, Triple Duty Valve.....	1,777.43	308.44
23 05 23 00-0184	EA			5" Flanged, Angle Pattern, Triple Duty Valve.....	2,031.94	315.05
23 05 23 00-0185	EA			6" Flanged, Angle Pattern, Triple Duty Valve.....	2,279.23	350.05
23 05 23 00-0186	EA			8" Flanged, Angle Pattern, Triple Duty Valve.....	3,464.47	447.29
23 05 23 00-0187	EA			10" Flanged, Angle Pattern, Triple Duty Valve.....	4,611.77	544.53
<b>23 05 23 00-0188</b>				<b>Balanced, Straight Pattern, Triple Duty Valves <small>(23 05 23 00-0166)</small></b> Note: Bell & Gossett 3DS-B Series.		
23 05 23 00-0189	EA			3" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	834.34	183.99
23 05 23 00-0190	EA			4" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	1,638.03	308.44
23 05 23 00-0191	EA			5" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	1,873.95	315.05
23 05 23 00-0192	EA			6" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,462.00	350.05
23 05 23 00-0193	EA			8" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	3,300.29	447.29
23 05 23 00-0194	EA			10" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	5,206.55	544.53
23 05 23 00-0195	EA			12" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	7,776.77	661.22
23 05 23 00-0196	EA			14" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	9,442.92	777.89
23 05 23 00-0197	EA			16" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	11,785.53	855.69
<b>23 05 23 00-0198</b>				<b>Grooved Straight Pattern, Triple Duty Valves <small>(23 05 23 00-0166)</small></b> Note: Bell & Gossett 3DS-G Series.		
23 05 23 00-0199	EA			2" Grooved, Straight Pattern, Triple Duty Valve.....	724.44	29.05
23 05 23 00-0200	EA			2-1/2" Grooved, Straight Pattern, Triple Duty Valve.....	863.89	34.63
23 05 23 00-0201	EA			3" Grooved, Straight Pattern, Triple Duty Valve.....	1,004.21	37.56
23 05 23 00-0202	EA			4" Grooved, Straight Pattern, Triple Duty Valve.....	1,656.52	40.47
23 05 23 00-0203	EA			5" Grooved, Straight Pattern, Triple Duty Valve.....	1,917.09	49.59
23 05 23 00-0204	EA			6" Grooved, Straight Pattern Triple Duty Valve.....	2,554.94	63.59
23 05 23 00-0205	EA			8" Grooved, Straight Pattern Triple Duty Valve.....	3,472.39	80.70
23 05 23 00-0206	EA			10" Grooved, Straight Pattern Triple Duty Valve.....	5,464.35	90.43
23 05 23 00-0207	EA			12" Grooved, Straight Pattern Triple Duty Valve.....	8,661.66	110.27
<b>23 05 23 00-0208</b>				<b>Plug Valves <small>(23 05 23)</small></b>		

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 23 00-0209 Plug Valves, Lubricated, Semisteel Screwed, Wrench Operated</b> (23 05 23 00-0208) Note: Includes wrench.		
23 05 23 00-0210 EA 1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	147.13	11.75
23 05 23 00-0211 EA 3/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	160.32	12.93
23 05 23 00-0212 EA 1" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	201.17	14.70
23 05 23 00-0213 EA 1-1/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	243.30	15.64
23 05 23 00-0214 EA 1-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	268.84	18.10
23 05 23 00-0215 EA 2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	318.60	21.40
23 05 23 00-0216 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	468.53	28.89
23 05 23 00-0217 EA 3" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	567.61	33.55
<b>23 05 23 00-0218 Plug Valves, Lubricated, Semisteel Flanged</b> (23 05 23 00-0208) Note: Wrench operated for 4", gear operated for 6" and 10".		
23 05 23 00-0219 EA 2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench .....	345.90	156.75
23 05 23 00-0220 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench .....	394.25	156.92
23 05 23 00-0221 EA 3" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench .....	478.42	183.99
23 05 23 00-0222 EA 4" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench .....	722.55	308.44
23 05 23 00-0223 EA 6" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench .....	1,335.57	350.05
23 05 23 00-0224 EA 8" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench .....	2,170.67	447.29
23 05 23 00-0225 EA 10" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench .....	3,372.03	544.53
23 05 23 00-0226 EA 12" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench .....	4,910.19	661.22
<b>23 05 23 00-0227 Plug Valves, Forged Steel, Screwed</b> (23 05 23 00-0208)		
23 05 23 00-0228 EA 1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	504.99	11.75
23 05 23 00-0229 EA 3/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	600.25	12.93
23 05 23 00-0230 EA 1" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	680.91	14.70
23 05 23 00-0231 EA 1-1/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	819.33	15.64
23 05 23 00-0232 EA 1-1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	953.64	18.10
23 05 23 00-0233 EA 2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,247.68	21.40
<b>23 05 23 00-0234 Plug Valves, Eccentric, Cast Iron Flanged</b> (23 05 23 00-0208)		
23 05 23 00-0235 EA 4" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI .....	804.99	308.44
23 05 23 00-0236 EA 6" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI .....	1,156.71	350.05
23 05 23 00-0237 EA 8" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI .....	1,555.85	447.29
23 05 23 00-0238 EA 10" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI .....	2,161.08	544.53
23 05 23 00-0239 EA 12" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI .....	2,767.83	661.22
<b>23 05 23 00-0240 Foot Valves</b> (23 05 23)		
<b>23 05 23 00-0241 Single Poppet Foot Valves, Metal To Metal Seat Construction</b> (23 05 23 00-0240)		
23 05 23 00-0242 EA 1" Single Poppet Foot Valve, Metal To Metal Seat Construction .....	74.97	29.41
23 05 23 00-0243 EA 1-1/4" Single Poppet Foot Valve, Metal To Metal Seat Construction .....	84.37	32.93
23 05 23 00-0244 EA 1-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	102.32	37.64
23 05 23 00-0245 EA 2" Single Poppet Foot Valve, Metal To Metal Seat Construction .....	127.37	42.34
23 05 23 00-0246 EA 2-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction.....	260.07	69.39
23 05 23 00-0247 EA 3" Single Poppet Foot Valve, Metal To Metal Seat Construction .....	327.43	84.69
<b>23 05 23 00-0248 Double Poppet Foot Valves, Metal To Metal Seat Construction</b> (23 05 23 00-0240)		
23 05 23 00-0249 EA 1" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	74.97	29.41
23 05 23 00-0250 EA 1-1/4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	125.89	32.93
23 05 23 00-0251 EA 1-1/2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	126.27	37.64
23 05 23 00-0252 EA 2" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	162.48	42.34
23 05 23 00-0253 EA 3" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	303.60	69.39
23 05 23 00-0254 EA 4" Double Poppet Foot Valve, Metal To Metal Seat Construction.....	401.30	83.51
<b>23 05 23 00-0255 Float Valves</b> (23 05 23)		
<b>23 05 23 00-0256 Float Valve Assembly For Maintaining Liquid Level In Tanks</b> (23 05 23 00-0255)		
<b>23 05 23 00-0257 Single Seat, Bronze Construction</b> (23 05 23 00-0256) Note: For storage tanks, reservoirs, cooling towers and filtration plants.		
23 05 23 00-0258 EA Inlet Size 1/2", Maximum PSI 100, Single Seat Float Valve.....	124.45	24.70
23 05 23 00-0259 EA Inlet Size 3/4", Maximum PSI 100, Single Seat Float Valve.....	143.89	29.40
23 05 23 00-0260 EA Inlet Size 1", Maximum PSI 100, Single Seat Float Valve.....	178.73	31.75
23 05 23 00-0261 EA Inlet Size 1-1/4", Maximum PSI 90, Single Seat Float Valve .....	283.86	39.98
23 05 23 00-0262 EA Inlet Size 1-1/2", Maximum PSI 90, Single Seat Float Valve .....	295.61	45.86
<b>23 05 23 00-0263 Double Seat, Bronze Construction</b> (23 05 23 00-0256) Note: For hot or cold water or oil to open tanks.		
23 05 23 00-0264 EA Pipe Size 1/2" Maximum PSI 150, Double Seat Float Valve.....	544.67	24.70
23 05 23 00-0265 EA Pipe Size 3/4" Maximum PSI 150, Double Seat Float Valve.....	554.07	29.40
23 05 23 00-0266 EA Pipe Size 1" Maximum PSI 150, Double Seat Float Valve.....	636.39	31.75
23 05 23 00-0267 EA Pipe Size 1-1/4" Maximum PSI 150, Double Seat Float Valve.....	709.14	39.98
23 05 23 00-0268 EA Pipe Size 1-1/2" Maximum PSI 150, Double Seat Float Valve.....	810.94	45.86



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0269	EA		Pipe Size 2" Maximum PSI 150, Double Seat Float Valve.....	1,057.04	54.09
23 05 23 00-0270	EA		Pipe Size 2-1/2" Maximum PSI 150, Double Seat Float Valve .....	1,240.30	72.51
23 05 23 00-0271	EA		Pipe Size 3" Maximum PSI 150, Double Seat Float Valve.....	1,488.15	83.34
<b>23 05 23 00-0272</b>			<b>Float Valve Single Seated Balanced For Air Oil Or Water</b> <small>(23 05 23 00-0255)</small>		
			Note: Includes arm, ball and bracket.		
<b>23 05 23 00-0273</b>			<b>Brass Body Threaded Ends</b> <small>(23 05 23 00-0272)</small>		
23 05 23 00-0274	EA		1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	153.81	31.87
23 05 23 00-0275	EA		3/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	172.91	35.40
23 05 23 00-0276	EA		1" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	206.34	39.15
23 05 23 00-0277	EA		1-1/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket .....	330.90	63.27
23 05 23 00-0278	EA		1-1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket .....	356.29	72.09
23 05 23 00-0279	EA		2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket.....	414.66	89.37
<b>23 05 23 00-0280</b>			<b>Cast Iron Body Flanged</b> <small>(23 05 23 00-0272)</small>		
23 05 23 00-0281	EA		2-1/2" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	3,361.81	156.92
23 05 23 00-0282	EA		3" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket.....	4,060.57	183.99
<b>23 05 23 00-0283</b>			<b>Float Operated Valves</b> <small>(23 05 23 00-0255)</small>		
<b>23 05 23 00-0284</b>			<b>For Condensate Receivers Tanks And Vessels</b> <small>(23 05 23 00-0283)</small>		
			Note: Cast iron body, self-contained, float in-line mount.		
23 05 23 00-0285	EA		1" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	426.49	55.27
<b>23 05 23 00-0286</b>			<b>For Condensate Receivers Tanks And Vessels</b> <small>(23 05 23 00-0283)</small>		
			Note: Cast iron body, external float tank mount, flanged.		
23 05 23 00-0287	EA		3/4" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket.....	574.23	102.81
<b>23 05 23 00-0288</b>			<b>Needle Valves</b> <small>(23 05 23)</small>		
<b>23 05 23 00-0289</b>			<b>Bronze Needle Valve</b> <small>(23 05 23 00-0288)</small>		
			Note: For heating and cooling applications.		
23 05 23 00-0290	EA		1/4" Needle Valve, Bronze.....	69.72	11.75
23 05 23 00-0291	EA		3/8" Needle Valve, Bronze.....	76.52	11.75
23 05 23 00-0292	EA		1/2" Needle Valve, Bronze.....	82.85	11.75
23 05 23 00-0293	EA		3/4" Needle Valve, Bronze.....	122.07	12.93
23 05 23 00-0294	EA		1" Needle Valve, Bronze.....	177.60	14.70
<b>23 05 23 00-0295</b>			<b>Eccentric Valves With Taps</b> <small>(23 05 23)</small>		
<b>23 05 23 00-0296</b>			<b>Screwed Eccentric Valves With Taps</b> <small>(23 05 23 00-0295)</small>		
23 05 23 00-0297	EA		1/2" Diameter Eccentric Valves With Taps, Screwed.....	153.23	11.75
23 05 23 00-0298	EA		3/4" Diameter Eccentric Valves With Taps, Screwed.....	168.20	12.93
23 05 23 00-0299	EA		1" Diameter Eccentric Valves With Taps, Screwed.....	210.89	14.70
23 05 23 00-0300	EA		1-1/4" Diameter Eccentric Valves With Taps, Screwed .....	257.55	15.64
23 05 23 00-0301	EA		1-1/2" Diameter Eccentric Valves With Taps, Screwed .....	283.79	18.10
23 05 23 00-0302	EA		2" Diameter Eccentric Valves With Taps, Screwed.....	333.94	21.40
23 05 23 00-0303	EA		2-1/2" Diameter Eccentric Valves With Taps, Screwed .....	495.50	28.89
23 05 23 00-0304	EA		3" Diameter Eccentric Valves With Taps, Screwed.....	597.52	33.55
<b>23 05 23 00-0305</b>			<b>Flanged Eccentric Valves With Taps</b> <small>(23 05 23 00-0295)</small>		
23 05 23 00-0306	EA		2-1/2" Diameter Eccentric Valves With Taps, Flanged .....	613.60	156.92
23 05 23 00-0307	EA		3" Diameter Eccentric Valves With Taps, Flanged.....	726.92	183.99
23 05 23 00-0308	EA		4" Diameter Eccentric Valves With Taps, Flanged.....	1,016.20	308.44
23 05 23 00-0309	EA		5" Diameter Eccentric Valves With Taps, Flanged.....	1,280.08	315.05
23 05 23 00-0310	EA		6" Diameter Eccentric Valves With Taps, Flanged.....	1,592.08	350.05
23 05 23 00-0311	EA		8" Diameter Eccentric Valves With Taps, Flanged.....	2,639.81	447.29
23 05 23 00-0312	EA		10" Diameter Eccentric Valves With Taps, Flanged.....	3,651.71	544.53
23 05 23 00-0313	EA		12" Diameter Eccentric Valves With Taps, Flanged.....	6,101.99	661.22
<b>23 05 23 00-0314</b>			<b>Check Valves</b> <small>(23 05 23)</small>		
<b>23 05 23 00-0315</b>			<b>Iron Body Wafer Type Check Valve</b> <small>(23 05 23 00-0314)</small>		
<b>23 05 23 00-0316</b>			<b>Single Disk Type</b> <small>(23 05 23 00-0315)</small>		
23 05 23 00-0317	EA		2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB .....	315.63	156.79
			For 150 LB Rating, Add	25.11	
			For 200 LB Rating, Add	29.90	
			For 300 LB Rating, Add	35.88	
			For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	93.02	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0318 EA 2-1/2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	353.54	156.98
For 150 LB Rating, Add	32.90	
For 200 LB Rating, Add	39.17	
For 300 LB Rating, Add	47.01	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	109.88	
23 05 23 00-0319 EA 3" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	428.42	184.06
For 150 LB Rating, Add	41.59	
For 200 LB Rating, Add	49.52	
For 300 LB Rating, Add	59.42	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	135.20	
23 05 23 00-0320 EA 4" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	654.91	308.55
For 150 LB Rating, Add	56.33	
For 200 LB Rating, Add	67.06	
For 300 LB Rating, Add	80.48	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	198.04	
23 05 23 00-0321 EA 6" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	961.51	433.06
For 150 LB Rating, Add	88.24	
For 200 LB Rating, Add	105.05	
For 300 LB Rating, Add	126.05	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	297.35	
23 05 23 00-0322 EA 8" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,265.09	498.02
For 150 LB Rating, Add	135.41	
For 200 LB Rating, Add	161.20	
For 300 LB Rating, Add	193.44	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	414.22	
23 05 23 00-0323 EA 10" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,793.30	606.29
For 150 LB Rating, Add	216.28	
For 200 LB Rating, Add	257.47	
For 300 LB Rating, Add	308.97	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	616.13	
<b>23 05 23 00-0324 Twin Disc Type</b> <small>(23 05 23 00-0315)</small>		
23 05 23 00-0325 EA 2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	330.33	156.79
For 150 LB Rating, Add	28.20	
For 200 LB Rating, Add	33.57	
For 300 LB Rating, Add	40.29	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	99.64	
23 05 23 00-0326 EA 2-1/2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	358.02	156.98
For 150 LB Rating, Add	33.85	
For 200 LB Rating, Add	40.29	
For 300 LB Rating, Add	48.35	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	111.90	
23 05 23 00-0327 EA 3" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	418.41	184.06
For 150 LB Rating, Add	39.49	
For 200 LB Rating, Add	47.01	
For 300 LB Rating, Add	56.42	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	130.69	
23 05 23 00-0328 EA 4" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	625.46	308.55
For 150 LB Rating, Add	50.15	
For 200 LB Rating, Add	59.70	
For 300 LB Rating, Add	71.64	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	184.79	
23 05 23 00-0329 EA 6" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	926.41	433.06
For 150 LB Rating, Add	80.87	
For 200 LB Rating, Add	96.27	
For 300 LB Rating, Add	115.52	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	281.55	
23 05 23 00-0330 EA 8" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,206.75	498.02
For 150 LB Rating, Add	123.50	
For 200 LB Rating, Add	147.02	
For 300 LB Rating, Add	176.42	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	388.37	
23 05 23 00-0331 EA 10" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	1,689.52	54.13
For 150 LB Rating, Add	195.58	
For 200 LB Rating, Add	232.84	
For 300 LB Rating, Add	279.41	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	570.74	
23 05 23 00-0332 EA 12" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	2,165.31	736.21
For 150 LB Rating, Add	262.04	
For 200 LB Rating, Add	311.95	
For 300 LB Rating, Add	374.34	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	745.01	
23 05 23 00-0333 EA 14" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	3,643.32	829.47
For 150 LB Rating, Add	532.85	
For 200 LB Rating, Add	634.34	
For 300 LB Rating, Add	761.21	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	1,363.00	
23 05 23 00-0334 EA 16" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	4,798.71	973.24
For 150 LB Rating, Add	752.25	
For 200 LB Rating, Add	895.54	
For 300 LB Rating, Add	1,074.65	
For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	1,855.28	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0335 EA 18" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	6,215.37	1,083.84
<i>For 150 LB Rating, Add</i>	1,021.37	
<i>For 200 LB Rating, Add</i>	1,215.91	
<i>For 300 LB Rating, Add</i>	1,459.10	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	2,458.99	
23 05 23 00-0336 EA 20" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	7,337.03	1,216.55
<i>For 150 LB Rating, Add</i>	1,221.43	
<i>For 200 LB Rating, Add</i>	1,454.08	
<i>For 300 LB Rating, Add</i>	1,744.90	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	2,921.49	
23 05 23 00-0337 EA 24" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	9,514.07	1,493.04
<i>For 150 LB Rating, Add</i>	1,604.91	
<i>For 200 LB Rating, Add</i>	1,910.61	
<i>For 300 LB Rating, Add</i>	2,292.74	
<i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	3,813.43	
<b>23 05 23 00-0338 Lift Check Valves (23 05 23 00-0314)</b>		
<b>23 05 23 00-0339 Bronze Body, Threaded, Vertical Lift Check Valves (23 05 23 00-0338)</b>		
Note: Watts #600 series.		
23 05 23 00-0340 EA 3/8" Lift Check Valve, Bronze, Threaded.....	72.21	11.75
23 05 23 00-0341 EA 1/2" Lift Check Valve, Bronze, Threaded.....	76.29	11.75
23 05 23 00-0342 EA 3/4" Lift Check Valve, Bronze, Threaded.....	98.89	12.35
23 05 23 00-0343 EA 1" Lift Check Valve, Bronze, Threaded.....	127.08	12.35
23 05 23 00-0344 EA 1-1/4" Lift Check Valve, Bronze, Threaded.....	171.84	15.64
23 05 23 00-0345 EA 1-1/2" Lift Check Valve, Bronze, Threaded.....	206.15	18.10
23 05 23 00-0346 EA 2" Lift Check Valve, Bronze, Threaded.....	280.86	21.40
<b>23 05 23 00-0347 Bronze Body, Threaded, 300 LB, Lift Check Valves (23 05 23 00-0338)</b>		
Note: Crane 366E.		
23 05 23 00-0348 EA 1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	338.33	11.75
23 05 23 00-0349 EA 3/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	413.93	12.35
23 05 23 00-0350 EA 1" Lift Check Valve, Bronze, Threaded, 300 LB.....	725.09	12.35
23 05 23 00-0351 EA 1-1/4" Lift Check Valve, Bronze, Threaded, 300 LB.....	963.97	15.64
23 05 23 00-0352 EA 1-1/2" Lift Check Valve, Bronze, Threaded, 300 LB.....	1,050.15	18.10
23 05 23 00-0353 EA 2" Lift Check Valve, Bronze, Threaded, 300 LB.....	1,343.56	21.40
<b>23 05 23 00-0354 Iron Body, Flanged, 125 LB Vertical Lift Check Valves (23 05 23 00-0338)</b>		
Note: Mueller 105MAP.		
23 05 23 00-0355 EA 2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	576.77	156.75
23 05 23 00-0356 EA 2-1/2" Lift Check Valve, Iron Body, Flanged, 125 LB.....	715.56	156.92
23 05 23 00-0357 EA 3" Lift Check Valve, Iron Body, Flanged, 125 LB.....	789.65	183.99
23 05 23 00-0358 EA 4" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,138.24	308.44
23 05 23 00-0359 EA 5" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,360.21	315.05
23 05 23 00-0360 EA 6" Lift Check Valve, Iron Body, Flanged, 125 LB.....	1,650.54	350.05
23 05 23 00-0361 EA 8" Lift Check Valve, Iron Body, Flanged, 125 LB.....	2,772.87	447.29
23 05 23 00-0362 EA 10" Lift Check Valve, Iron Body, Flanged, 125 LB.....	3,472.27	544.53
23 05 23 00-0363 EA 12" Lift Check Valve, Iron Body, Flanged, 125 LB.....	5,469.50	661.22
23 05 23 00-0364 EA 14" Lift Check Valve, Iron Body, Flanged, 125 LB.....	7,350.64	818.21
23 05 23 00-0365 EA 16" Lift Check Valve, Iron Body, Flanged, 125 LB.....	8,141.11	900.03
<b>23 05 23 00-0366 Bronze Body Swing Check Valves (23 05 23 00-0314)</b>		
<b>23 05 23 00-0367 Bronze Body, Threaded, Brazed Or Soldered Installation, 125 LB, Swing Check Valves (23 05 23 00-0366)</b>		
23 05 23 00-0368 EA 1/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	56.93	11.75
<i>For 300 LB Rating, Add</i>	7.41	
<i>For Work In Restricted Working Space, Add</i>	11.38	
23 05 23 00-0369 EA 1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	53.23	11.75
<i>For 300 LB Rating, Add</i>	7.41	
<i>For Work In Restricted Working Space, Add</i>	10.27	
23 05 23 00-0370 EA 3/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	55.03	11.75
<i>For 300 LB Rating, Add</i>	7.41	
<i>For Work In Restricted Working Space, Add</i>	10.81	
23 05 23 00-0371 EA 1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	57.67	11.75
<i>For 300 LB Rating, Add</i>	7.69	
<i>For Work In Restricted Working Space, Add</i>	11.38	
23 05 23 00-0372 EA 3/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	75.03	12.35
<i>For 300 LB Rating, Add</i>	9.32	
<i>For Work In Restricted Working Space, Add</i>	15.34	
23 05 23 00-0373 EA 1" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	94.35	12.35
<i>For 300 LB Rating, Add</i>	12.66	
<i>For Work In Restricted Working Space, Add</i>	18.57	
23 05 23 00-0374 EA 1-1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	123.96	15.64
<i>For 300 LB Rating, Add</i>	17.77	
<i>For Work In Restricted Working Space, Add</i>	23.52	
23 05 23 00-0375 EA 1-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	154.26	18.10
<i>For 300 LB Rating, Add</i>	24.89	
<i>For Work In Restricted Working Space, Add</i>	27.14	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0376 EA 2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	188.93	21.40
For 300 LB Rating, Add	31.99	
For Work In Restricted Working Space, Add	32.07	
23 05 23 00-0377 EA 2-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	332.88	28.89
For 300 LB Rating, Add	73.55	
For Work In Restricted Working Space, Add	43.29	
23 05 23 00-0378 EA 3" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	434.71	33.55
For 300 LB Rating, Add	104.60	
For Work In Restricted Working Space, Add	49.95	
23 05 23 00-0379 EA 4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB .....	492.91	37.88
For 300 LB Rating, Add	118.37	
For Work In Restricted Working Space, Add	56.82	
<b>23 05 23 00-0380 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves (23 05 23 00-0314)</b>		
23 05 23 00-0381 EA 1" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	258.84	88.19
For 150 LB Rating, Add	100.57	
For 250 LB Rating, Add	192.27	
For Work In Restricted Working Space, Add	33.28	
23 05 23 00-0382 EA 1-1/4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	290.77	102.89
For 150 LB Rating, Add	110.81	
For 250 LB Rating, Add	211.84	
For Work In Restricted Working Space, Add	38.35	
23 05 23 00-0383 EA 1-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	331.45	123.47
For 150 LB Rating, Add	120.18	
For 250 LB Rating, Add	229.75	
For Work In Restricted Working Space, Add	46.42	
23 05 23 00-0384 EA 2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	415.48	156.75
For 150 LB Rating, Add	149.26	
For 250 LB Rating, Add	285.35	
For Work In Restricted Working Space, Add	58.79	
23 05 23 00-0385 EA 2-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	452.94	156.92
For 150 LB Rating, Add	174.20	
For 250 LB Rating, Add	333.02	
For Work In Restricted Working Space, Add	59.03	
23 05 23 00-0386 EA 3" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	508.65	183.99
For 150 LB Rating, Add	189.30	
For 250 LB Rating, Add	361.89	
For Work In Restricted Working Space, Add	69.08	
23 05 23 00-0387 EA 4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	816.74	308.44
For 150 LB Rating, Add	292.55	
For 250 LB Rating, Add	559.29	
For Work In Restricted Working Space, Add	115.96	
23 05 23 00-0388 EA 5" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	1,024.85	315.05
For 150 LB Rating, Add	429.52	
For 250 LB Rating, Add	821.15	
For Work In Restricted Working Space, Add	117.96	
23 05 23 00-0389 EA 6" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	1,171.51	350.05
For 150 LB Rating, Add	498.01	
For 250 LB Rating, Add	952.08	
For Work In Restricted Working Space, Add	131.74	
23 05 23 00-0390 EA 8" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	2,384.09	447.29
For 150 LB Rating, Add	1,243.35	
For 250 LB Rating, Add	2,376.99	
For Work In Restricted Working Space, Add	166.69	
23 05 23 00-0391 EA 10" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	3,169.57	544.53
For 150 LB Rating, Add	1,692.46	
For 250 LB Rating, Add	3,235.58	
For Work In Restricted Working Space, Add	204.20	
23 05 23 00-0392 EA 12" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	4,706.39	661.22
For 150 LB Rating, Add	2,639.31	
For 250 LB Rating, Add	5,045.74	
For Work In Restricted Working Space, Add	247.52	
23 05 23 00-0393 EA 14" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	5,416.96	818.21
For 150 LB Rating, Add	2,988.06	
For 250 LB Rating, Add	5,712.46	
For Work In Restricted Working Space, Add	306.83	
23 05 23 00-0394 EA 16" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	7,525.16	900.03
For 150 LB Rating, Add	4,352.09	
For 250 LB Rating, Add	8,320.17	
For Work In Restricted Working Space, Add	337.51	
23 05 23 00-0395 EA 18" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	11,306.96	998.22
For 150 LB Rating, Add	6,840.26	
For 250 LB Rating, Add	13,076.96	
For Work In Restricted Working Space, Add	374.33	
23 05 23 00-0396 EA 20" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	15,407.01	1,125.03
For 150 LB Rating, Add	9,520.49	
For 250 LB Rating, Add	18,200.94	
For Work In Restricted Working Space, Add	421.89	
23 05 23 00-0397 EA 24" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves .....	21,326.04	1,380.72
For 150 LB Rating, Add	13,328.10	
For 250 LB Rating, Add	25,480.18	
For Work In Restricted Working Space, Add	517.77	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0398	<b>Class 800 Forged Steel, Screwed, Chrome Trim, Bolted Bonnet, Piston Check, Swing Check Valves</b> <small>(23 05 23 00-0314)</small>			
	Note: 800 PSIG at 850 Degrees F.			
23 05 23 00-0399	EA 1/2" Class 800, Threaded, Forged Steel Swing Check Valve ..... <i>For Work In Restricted Working Space, Add</i>	103.69 11.38	113.07	11.75
23 05 23 00-0400	EA 3/4" 800, Threaded, Forged Steel Swing Check Valve ..... <i>For Work In Restricted Working Space, Add</i>	125.78 15.34	141.12	12.93
23 05 23 00-0401	EA 1" Class 800, Threaded, Forged Steel Swing Check Valve ..... <i>For Work In Restricted Working Space, Add</i>	149.55 18.57	168.12	14.70
23 05 23 00-0402	EA 1-1/4" Class 800, Threaded, Forged Steel Swing Check Valve ..... <i>For Work In Restricted Working Space, Add</i>	221.77 23.52	245.29	15.64
23 05 23 00-0403	EA 1-1/2" 800, Threaded, Forged Steel Swing Check Valve ..... <i>For Work In Restricted Working Space, Add</i>	261.67 27.14	288.81	18.10
23 05 23 00-0404	EA 2" Class 800, Threaded, Forged Steel Swing Check Valve ..... <i>For Work In Restricted Working Space, Add</i>	345.24 32.07	377.31	21.40
23 05 23 00-0405	<b>Swing Check Valves, 150 LB Polyvinyl Chloride (PVC) Socket Weld End Connections</b> <small>(23 05 23 00-0314)</small>			
23 05 23 00-0406	EA 1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB ..... <i>For Work In Restricted Working Space, Add</i>	58.03 11.38	69.41	11.75
23 05 23 00-0407	EA 3/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB ..... <i>For Work In Restricted Working Space, Add</i>	71.22 15.34	86.56	12.93
23 05 23 00-0408	EA 1" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB ..... <i>For Work In Restricted Working Space, Add</i>	82.77 18.57	101.34	14.70
23 05 23 00-0409	EA 1-1/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB ..... <i>For Work In Restricted Working Space, Add</i>	100.14 23.52	123.66	15.64
23 05 23 00-0410	EA 1-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB ..... <i>For Work In Restricted Working Space, Add</i>	113.45 27.14	140.59	18.10
23 05 23 00-0411	EA 2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB ..... <i>For Work In Restricted Working Space, Add</i>	142.65 32.07	174.72	21.40
23 05 23 00-0412	EA 2-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB ..... <i>For Work In Restricted Working Space, Add</i>	195.21 43.29	238.50	28.89
23 05 23 00-0413	EA 3" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB ..... <i>For Work In Restricted Working Space, Add</i>	232.56 49.95	282.51	33.55
23 05 23 00-0414	<b>Diaphragm Valves</b> <small>(23 05 23)</small>			
23 05 23 00-0415	<b>Polytetrafluoroethylene (PTFE) Or Viton Lined, Threaded Cast Iron Diaphragm Valves</b> <small>(23 05 23 00-0414)</small>			
23 05 23 00-0416	EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	161.55	161.55	35.18
23 05 23 00-0417	EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	200.38	200.38	38.96
23 05 23 00-0418	EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	223.76	223.76	48.16
23 05 23 00-0419	EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	350.54	350.54	71.97
23 05 23 00-0420	EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	531.96	531.96	86.58
23 05 23 00-0421	<b>Polytetrafluoroethylene (PTFE) Or Viton Lined, Flanged Cast Iron Diaphragm Valves</b> <small>(23 05 23 00-0414)</small>			
23 05 23 00-0422	EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	184.37	184.37	56.44
23 05 23 00-0423	EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	211.10	211.10	58.79
23 05 23 00-0424	EA 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	257.14	257.14	88.19
23 05 23 00-0425	EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	382.14	382.14	123.47
23 05 23 00-0426	EA 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	581.21	581.21	156.75
23 05 23 00-0427	EA 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	713.71	713.71	156.92
23 05 23 00-0428	EA 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	878.89	878.89	183.99
23 05 23 00-0429	EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	1,276.92	1,276.92	308.44
23 05 23 00-0430	EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	2,433.96	2,433.96	350.05
23 05 23 00-0431	EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated.....	3,718.94	3,718.94	447.29
23 05 23 00-0432	<b>Ethylene Propylene Diene Monomer (EPDM) Lined, Threaded Cast Iron Diaphragm Valves</b> <small>(23 05 23 00-0414)</small>			
23 05 23 00-0433	EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	114.04	114.04	35.18

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0434	EA		3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	141.60	38.96
23 05 23 00-0435	EA		1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	164.99	48.16
23 05 23 00-0436	EA		1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	270.51	71.97
23 05 23 00-0437	EA		2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	345.65	86.58
<b>23 05 23 00-0438 Ethylene Propylene Diene Monomer (EPDM) Lined, Flanged Cast Iron Diaphragm Valves</b> <small>(23 05 23 00-0414)</small>					
23 05 23 00-0439	EA		1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	134.37	56.44
23 05 23 00-0440	EA		3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	156.57	58.79
23 05 23 00-0441	EA		1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	202.61	88.19
23 05 23 00-0442	EA		1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	307.88	123.47
23 05 23 00-0443	EA		2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	408.32	156.75
23 05 23 00-0444	EA		2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	473.61	156.92
23 05 23 00-0445	EA		3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	571.41	183.99
23 05 23 00-0446	EA		4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	914.47	308.44
23 05 23 00-0447	EA		6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	1,621.94	350.05
23 05 23 00-0448	EA		8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	2,431.00	447.29
<b>23 05 23 00-0449 125 LB, Hand Wheel Operated, Flanged Cast Iron Diaphragm Valves</b> <small>(23 05 23 00-0414)</small>					
23 05 23 00-0450	EA		1" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	240.72	88.19
23 05 23 00-0451	EA		1-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	376.10	123.47
23 05 23 00-0452	EA		2" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	499.42	156.75
23 05 23 00-0453	EA		2-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	670.06	156.92
23 05 23 00-0454	EA		3" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	747.45	183.99
23 05 23 00-0455	EA		4" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	1,186.15	308.44
23 05 23 00-0456	EA		6" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	2,175.80	350.05
23 05 23 00-0457	EA		8" Diaphragm Valve, Cast Iron, 125 LB, Flanged .....	4,338.10	447.29
<b>23 05 23 00-0458 Solenoid Valves</b> <small>(23 05 23)</small>					
<b>23 05 23 00-0459 Bronze Body Solenoid Valves, 150 PSI Maximum Water Pressure</b> <small>(23 05 23 00-0458)</small>					
23 05 23 00-0460	EA		1/4" Solenoid Valve, Bronze, 150 PSI, Water .....	74.28	11.75
23 05 23 00-0461	EA		1/2" Solenoid Valve, Bronze, 150 PSI, Water .....	85.15	11.75
23 05 23 00-0462	EA		3/4" Solenoid Valve, Bronze, 150 PSI, Water .....	110.50	12.93
23 05 23 00-0463	EA		1" Solenoid Valve, Bronze, 150 PSI, Water .....	154.88	14.70
23 05 23 00-0464	EA		1-1/2" Solenoid Valve, Bronze, 150 PSI, Water .....	262.12	18.10
23 05 23 00-0465	EA		2" Solenoid Valve, Bronze, 150 PSI, Water .....	389.94	21.40
23 05 23 00-0466	EA		2-1/2" Solenoid Valve, Bronze, 150 PSI, Water .....	530.31	28.89
23 05 23 00-0467	EA		3" Solenoid Valve, Bronze, 150 PSI, Water .....	744.03	33.55
<b>23 05 23 00-0468 Flow Control Valves And Meters</b> <small>(23 05 23)</small>					
<b>23 05 23 00-0469 Conditioned Water Balancing Valves</b> <small>(23 05 23 00-0468)</small>					
Note: Working pressures up to 300 PSIG. Iron and bronze body construction (combination balancing, flow measuring and shut-off). Excludes portable read-out meter.					
23 05 23 00-0470	EA		1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	112.85	59.99
23 05 23 00-0471	EA		3/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	141.16	79.98
23 05 23 00-0472	EA		1" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	208.83	91.39
23 05 23 00-0473	EA		1-1/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	268.96	112.92
23 05 23 00-0474	EA		1-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	304.62	119.97
23 05 23 00-0475	EA		2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	395.42	137.15
23 05 23 00-0476	EA		2-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	739.00	238.62
23 05 23 00-0477	EA		3" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	995.40	272.72
23 05 23 00-0478	EA		3" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	1,074.40	184.06
23 05 23 00-0479	EA		4" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	1,372.36	308.55
23 05 23 00-0480	EA		6" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	1,620.03	389.76
23 05 23 00-0481	EA		8" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	2,654.96	498.02
23 05 23 00-0482	EA		10" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG .....	4,349.38	606.29
<b>23 05 23 00-0483 Read Out Meters</b> <small>(23 05 23 00-0468)</small>					
Note: For use with conditioned portable water balancing valves.					
23 05 23 00-0484	EA		0.5 - 25% Accuracy Read Out Meter For Use With Portable Water Balancing Valve .....	525.97	
23 05 23 00-0485	EA		0.5 - 50% Accuracy Read Out Meter For Use With Portable Water Balancing Valve .....	711.80	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 05 23 00-0486	EA 0.5 - 75% Accuracy Read Out Meter For Use With Portable Water Balancing Valve .....	711.80	
	23 05 23 00-0487	EA 0.5 - 100% Accuracy Read Out Meter For Use With Portable Water Balancing Valve .....	711.80	
<b>23 05 23 00-0488</b>	<b>Balancing Valves</b> <small>(23 05 23)</small>			
<b>23 05 23 00-0489</b>	<b>Balancing Valves With Lever</b> <small>(23 05 23 00-0488)</small>			
	Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.			
	23 05 23 00-0490	EA 1/2" Threaded Balancing Valve With Lever .....	170.29	37.05
	23 05 23 00-0491	EA 3/4" Threaded Balancing Valve With Lever .....	197.27	48.81
	23 05 23 00-0492	EA 1" Threaded Balancing Valve With Lever .....	213.71	55.87
	23 05 23 00-0493	EA 1-1/4" Threaded Balancing Valve With Lever .....	248.74	69.39
	23 05 23 00-0494	EA 1-1/2" Threaded Balancing Valve With Lever .....	266.14	73.51
	23 05 23 00-0495	EA 2" Threaded Balancing Valve With Lever .....	297.07	84.10
	23 05 23 00-0496	EA 2-1/2" Flanged Balancing Valve With Lever .....	447.48	156.98
	23 05 23 00-0497	EA 3" Flanged Balancing Valve With Lever .....	513.25	184.06
	23 05 23 00-0498	EA 4" Flanged Balancing Valve With Lever .....	797.34	308.55
	23 05 23 00-0499	EA 5" Flanged Balancing Valve With Lever .....	1,131.38	350.78
	23 05 23 00-0500	EA 6" Flanged Balancing Valve With Lever .....	1,182.51	389.76
	23 05 23 00-0501	EA 8" Flanged Balancing Valve With Lever .....	1,581.48	498.02
<b>23 05 23 00-0502</b>	<b>Balancing Valves With Nut</b> <small>(23 05 23 00-0488)</small>			
	Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.			
	23 05 23 00-0503	EA 4" Flanged Balancing Valve With Nut .....	765.09	308.55
	23 05 23 00-0504	EA 5" Flanged Balancing Valve With Nut .....	1,090.44	350.78
	23 05 23 00-0505	EA 6" Flanged Balancing Valve With Nut .....	1,141.57	389.76
	23 05 23 00-0506	EA 8" Flanged Balancing Valve With Nut .....	1,524.41	498.02
<b>23 05 23 00-0507</b>	<b>Balancing Valves With Hand Wheel</b> <small>(23 05 23 00-0488)</small>			
	Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.			
	23 05 23 00-0508	EA 4" Flanged Balancing Valve With Hand Wheel .....	1,007.03	308.55
	23 05 23 00-0509	EA 5" Flanged Balancing Valve With Hand Wheel .....	1,344.79	350.78
	23 05 23 00-0510	EA 6" Flanged Balancing Valve With Hand Wheel .....	1,395.92	389.76
	23 05 23 00-0511	EA 8" Flanged Balancing Valve With Hand Wheel .....	1,802.34	498.02
	23 05 23 00-0512	EA 10" Flanged Balancing Valve With Hand Wheel .....	2,611.53	606.29
	23 05 23 00-0513	EA 12" Flanged Balancing Valve With Hand Wheel .....	3,365.29	469.26
	23 05 23 00-0514	EA 14" Flanged Balancing Valve With Hand Wheel .....	4,485.74	884.76
<b>23 05 23 00-0515</b>	<b>Balancing Valves With Chain Wheel</b> <small>(23 05 23 00-0488)</small>			
	Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.			
	23 05 23 00-0516	EA 4" Flanged Balancing Valve With Chain Wheel .....	1,138.55	308.55
	23 05 23 00-0517	EA 5" Flanged Balancing Valve With Chain Wheel .....	1,477.55	350.78
	23 05 23 00-0518	EA 6" Flanged Balancing Valve With Chain Wheel .....	1,528.68	389.76
	23 05 23 00-0519	EA 8" Flanged Balancing Valve With Chain Wheel .....	1,933.85	498.02
	23 05 23 00-0520	EA 10" Flanged Balancing Valve With Chain Wheel .....	2,744.28	606.29
	23 05 23 00-0521	EA 12" Flanged Balancing Valve With Chain Wheel .....	3,528.12	468.92
	23 05 23 00-0522	EA 14" Flanged Balancing Valve With Chain Wheel .....	4,647.03	884.76
<b>23 05 23 00-0523</b>	<b>Calibrated Balancing Valves</b> <small>(23 05 23 00-0488)</small>			
	Note: Bell & Gossett CB Series.			
	23 05 23 00-0524	EA 1/2" Braze Or Soldered Calibrated Balancing Valve (CB-1/2S) .....	87.51	11.76
	23 05 23 00-0525	EA 3/4" Braze Or Soldered Calibrated Balancing Valve (CB-3/4S) .....	105.66	12.93
	23 05 23 00-0526	EA 1" Braze Or Soldered Calibrated Balancing Valve (CB-1S) .....	128.82	14.70
	23 05 23 00-0527	EA 1-1/4" Braze Or Soldered Calibrated Balancing Valve (CB-1-1/4S) .....	171.35	15.65
	23 05 23 00-0528	EA 1" Threaded Calibrated Balancing Valve (CB-1) .....	135.64	14.70
	23 05 23 00-0529	EA 1-1/4" Threaded Calibrated Balancing Valve (CB-1-1/4) .....	183.13	15.65
	23 05 23 00-0530	EA 1-1/2" Threaded Calibrated Balancing Valve (CB-1-1/2) .....	212.53	18.11
	23 05 23 00-0531	EA 2" Threaded Calibrated Balancing Valve (CB-2) .....	280.41	21.41
	23 05 23 00-0532	EA 2-1/2" Threaded Calibrated Balancing Valve (CB-2-1/2) .....	503.74	31.41
	23 05 23 00-0533	EA 3" Threaded Calibrated Balancing Valve (CB-3) .....	692.04	36.46
	23 05 23 00-0534	EA 2-1/2" Flanged Calibrated Balancing Valve (CB-2-1/2F) .....	672.33	170.55
	23 05 23 00-0535	EA 3" Flanged Calibrated Balancing Valve (CB-3F) .....	947.26	199.96
	23 05 23 00-0536	EA 4" Flanged Calibrated Balancing Valve (CB-4F) .....	1,495.01	335.23
	23 05 23 00-0537	EA 5" Flanged Calibrated Balancing Valve (CB-5F) .....	2,095.79	381.09
	23 05 23 00-0538	EA 6" Flanged Calibrated Balancing Valve (CB-6F) .....	2,715.14	423.44
	23 05 23 00-0539	EA 8" Flanged Calibrated Balancing Valve (CB-8F) .....	4,776.70	541.06
	23 05 23 00-0540	EA 10" Flanged Calibrated Balancing Valve (CB-10F) .....	6,585.25	619.34
	23 05 23 00-0541	EA 12" Flanged Calibrated Balancing Valve (CB-12F) .....	13,496.36	752.05
	23 05 23 00-0542	EA 4" Grooved Calibrated Balancing Valve (CB-4G) .....	1,579.07	40.47
	23 05 23 00-0543	EA 5" Grooved Calibrated Balancing Valve (CB-5G) .....	1,821.06	49.59
	23 05 23 00-0544	EA 6" Grooved Calibrated Balancing Valve (CB-6G) .....	2,418.64	63.59
	23 05 23 00-0545	EA 8" Grooved Calibrated Balancing Valve (CB-8G) .....	4,500.86	80.70
	23 05 23 00-0546	EA 10" Grooved Calibrated Balancing Valve (CB-10G) .....	6,038.47	90.43
	23 05 23 00-0547	EA 12" Grooved Calibrated Balancing Valve (CB-12G) .....	12,380.81	110.27

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0548			<b>Butterfly Valves</b> <small>(23 05 23)</small>		
23 05 23 00-0549			<b>Cast Iron Body, Iron Disc, Butterfly Valves</b> <small>(23 05 23 00-0548)</small>		
			Note: With on-off handle, 150 PSI wafer type.		
23 05 23 00-0550	EA		2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	281.34	156.75
			For 200 PSI, Add	40.97	
			For 175 PSI, Add	14.94	
			For Work In Restricted Working Space, Add	58.79	
23 05 23 00-0551	EA		2-1/2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	287.10	156.92
			For 200 PSI, Add	43.36	
			For 175 PSI, Add	15.81	
			For Work In Restricted Working Space, Add	59.03	
23 05 23 00-0552	EA		3" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	327.54	183.99
			For 200 PSI, Add	46.69	
			For 175 PSI, Add	17.02	
			For Work In Restricted Working Space, Add	69.08	
23 05 23 00-0553	EA		4" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	508.61	308.44
			For 200 PSI, Add	58.60	
			For 175 PSI, Add	21.37	
			For Work In Restricted Working Space, Add	115.96	
23 05 23 00-0554	EA		5" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	612.84	350.05
			For 200 PSI, Add	83.38	
			For 175 PSI, Add	30.40	
			For Work In Restricted Working Space, Add	131.74	
23 05 23 00-0555	EA		6" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	698.60	388.95
			For 200 PSI, Add	101.96	
			For 175 PSI, Add	37.17	
			For Work In Restricted Working Space, Add	145.86	
23 05 23 00-0556	EA		8" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	875.25	447.29
			For 200 PSI, Add	153.41	
			For 175 PSI, Add	55.93	
			For Work In Restricted Working Space, Add	166.69	
23 05 23 00-0557	EA		10" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,300.04	544.53
			For 200 PSI, Add	297.30	
			For 175 PSI, Add	108.39	
			For Work In Restricted Working Space, Add	204.20	
23 05 23 00-0558	EA		12" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	1,614.16	661.22
			For 200 PSI, Add	378.77	
			For 175 PSI, Add	138.09	
			For Work In Restricted Working Space, Add	247.52	
23 05 23 00-0559			<b>Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Butterfly Valves</b> <small>(23 05 23 00-0548)</small>		
23 05 23 00-0560	EA		2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	430.23	156.75
			For Work In Restricted Working Space, Add	58.79	
23 05 23 00-0561	EA		2-1/2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	433.01	156.92
			For Work In Restricted Working Space, Add	59.03	
23 05 23 00-0562	EA		3" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	478.42	183.99
			For Work In Restricted Working Space, Add	69.08	
23 05 23 00-0563	EA		4" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	666.43	308.44
			For Work In Restricted Working Space, Add	115.96	
23 05 23 00-0564	EA		5" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	787.54	350.05
			For Work In Restricted Working Space, Add	131.74	
23 05 23 00-0565	EA		6" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	872.25	388.95
			For Work In Restricted Working Space, Add	145.86	
23 05 23 00-0566	EA		8" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,055.91	447.29
			For Work In Restricted Working Space, Add	166.69	
23 05 23 00-0567	EA		10" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,326.84	544.53
			For Work In Restricted Working Space, Add	204.20	
23 05 23 00-0568	EA		12" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI.....	1,764.04	661.22
			For Work In Restricted Working Space, Add	247.52	
23 05 23 00-0569			<b>Cast Iron Body, Bronze Disc, Gear Operated, 150 LB, Butterfly Valves</b> <small>(23 05 23 00-0548)</small>		
23 05 23 00-0570	EA		14" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	2,698.97	767.07
			For 200 PSI, Add	603.44	
			For 175 PSI, Add	209.53	
			For Work In Restricted Working Space, Add	306.83	
23 05 23 00-0571	EA		16" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	3,377.00	900.03
			For 200 PSI, Add	810.71	
			For 175 PSI, Add	281.50	
			For Work In Restricted Working Space, Add	337.51	
23 05 23 00-0572	EA		18" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	4,595.89	1,002.30
			For 200 PSI, Add	1,204.51	
			For 175 PSI, Add	418.23	
			For Work In Restricted Working Space, Add	375.01	
23 05 23 00-0573	EA		20" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI.....	5,831.60	1,125.03
			For 200 PSI, Add	1,593.11	
			For 175 PSI, Add	553.16	
			For Work In Restricted Working Space, Add	421.89	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0574	EA		24" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI..... <i>For 200 PSI, Add</i> <i>For 175 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,773.22 2,175.26 755.30 519.25	1,380.72
23 05 23 00-0575	EA		30" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI..... <i>For 200 PSI, Add</i> <i>For 175 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	15,957.32 4,669.38 1,621.31 896.04	2,346.78
23 05 23 00-0576	EA		36" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI..... <i>For 200 PSI, Add</i> <i>For 175 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	20,213.41 5,932.76 2,059.99 1,120.05	3,200.15
23 05 23 00-0577	EA		42" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI..... <i>For 200 PSI, Add</i> <i>For 175 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	24,977.98 6,924.28 2,404.27 1,723.16	4,693.55
23 05 23 00-0578	EA		48" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI..... <i>For 200 PSI, Add</i> <i>For 175 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	30,539.62 8,306.14 2,884.08 2,240.11	5,866.94
23 05 23 00-0579	EA		54" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI..... <i>For 200 PSI, Add</i> <i>For 175 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	37,002.27 9,960.66 3,458.56 2,800.13	7,040.33
23 05 23 00-0580	<b>Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, 175 LB</b> <sup>(23 05)</sup> <small>23 00-0549</small> Note: (Milwaukee Valve Company BB-SC 100)				
23 05 23 00-0581	EA		1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB ..... <i>For Work In Restricted Working Space, Add</i>	255.52 18.57	14.70
23 05 23 00-0582	EA		1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB ..... <i>For Work In Restricted Working Space, Add</i>	284.27 23.52	15.64
23 05 23 00-0583	EA		1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB ..... <i>For Work In Restricted Working Space, Add</i>	352.29 27.14	18.10
23 05 23 00-0584	EA		2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB ..... <i>For Work In Restricted Working Space, Add</i>	438.23 32.07	21.40
23 05 23 00-0585	EA		2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close, 175 LB ..... <i>For Work In Restricted Working Space, Add</i>	588.54 43.29	28.89
23 05 23 00-0586	<b>Bronze Body, Stainless Steel Disc, Slow Close Butterfly Valves, With Tamper Switch, 175 LB</b> <sup>(23 05 23 00-0549)</sup> Note: (Milwaukee Valve Company BB-S02)				
23 05 23 00-0587	EA		1" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB ..... <i>For Work In Restricted Working Space, Add</i>	368.25 18.57	14.70
23 05 23 00-0588	EA		1-1/4" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB ..... <i>For Work In Restricted Working Space, Add</i>	404.25 23.52	15.64
23 05 23 00-0589	EA		1-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB ..... <i>For Work In Restricted Working Space, Add</i>	481.85 27.14	18.10
23 05 23 00-0590	EA		2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB ..... <i>For Work In Restricted Working Space, Add</i>	576.23 32.07	21.40
23 05 23 00-0591	EA		2-1/2" Butterfly Valve, Bronze Body, Stainless Steel Disc, Slow Close With Tamper Switch, 175 LB ..... <i>For Work In Restricted Working Space, Add</i>	741.14 43.29	28.89
23 05 29	<b>Hangers And Supports For HVAC Piping And Equipment</b> <sup>(23 05)</sup>				
23 05 29 00-0001	<b>Hangers And Supports</b> <sup>(23 05 29)</sup>				
23 05 29 00-0002	<b>Clevis Hangers</b> <sup>(23 05 29 00-0001)</sup>				
23 05 29 00-0003	<b>Steel Clevis Hanger (Cooper B-Line B3100)</b> <sup>(23 05 29 00-0002)</sup> Note: Type 1.				
23 05 29 00-0004	EA		1/2" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	21.45 5.84	9.74
23 05 29 00-0005	EA		3/4" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	23.62 6.50	10.82
23 05 29 00-0006	EA		1" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	24.83 6.83	10.82
23 05 29 00-0007	EA		1-1/4" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	25.76 7.03	11.71
23 05 29 00-0008	EA		1-1/2" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	26.02 7.03	11.71
23 05 29 00-0009	EA		2" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	27.17 7.22	11.91
23 05 29 00-0010	EA		2-1/2" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	29.80 7.43	12.34
23 05 29 00-0011	EA		3" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	31.83 7.64	12.98
23 05 29 00-0012	EA		3-1/2" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	33.26 8.15	14.26
23 05 29 00-0013	EA		4" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	36.51 8.66	15.16

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0014 EA 5" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	46.84 10.88	18.13
23 05 29 00-0015 EA 6" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	56.37 12.99	21.65
23 05 29 00-0016 EA 8" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	75.77 16.23	27.06
23 05 29 00-0017 EA 10" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	110.76 21.65	36.79
23 05 29 00-0018 EA 12" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	129.81 24.35	40.58
23 05 29 00-0019 EA 14" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	161.58 27.92	45.46
23 05 29 00-0020 EA 16" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	201.23 32.47	54.11
23 05 29 00-0021 EA 18" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	250.81 40.59	67.64
23 05 29 00-0022 EA 20" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	405.07 48.70	81.17
23 05 29 00-0023 EA 24" Steel Clevis Hanger (Cooper B-Line B3100) ..... <i>For Work In Restricted Working Space, Add</i>	618.16 56.82	94.69
<b>23 05 29 00-0024 Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) (23 05 29 00-0002)</b>		
23 05 29 00-0025 EA 1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) ..... <i>For Work In Restricted Working Space, Add</i>	26.69 5.84	9.74
23 05 29 00-0026 EA 3/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) ..... <i>For Work In Restricted Working Space, Add</i>	28.86 6.50	10.82
23 05 29 00-0027 EA 1" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) ..... <i>For Work In Restricted Working Space, Add</i>	30.18 6.83	10.82
23 05 29 00-0028 EA 1-1/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) ..... <i>For Work In Restricted Working Space, Add</i>	31.22 7.03	11.71
23 05 29 00-0029 EA 1-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) ..... <i>For Work In Restricted Working Space, Add</i>	31.89 7.03	11.71
23 05 29 00-0030 EA 2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) ..... <i>For Work In Restricted Working Space, Add</i>	32.71 7.22	11.91
23 05 29 00-0031 EA 2-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) ..... <i>For Work In Restricted Working Space, Add</i>	36.57 7.43	12.34
23 05 29 00-0032 EA 3" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) ..... <i>For Work In Restricted Working Space, Add</i>	38.37 7.64	12.98
23 05 29 00-0033 EA 3-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) ..... <i>For Work In Restricted Working Space, Add</i>	43.02 8.66	15.16
23 05 29 00-0034 EA 4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) ..... <i>For Work In Restricted Working Space, Add</i>	47.44 8.66	15.16
23 05 29 00-0035 EA 5" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) ..... <i>For Work In Restricted Working Space, Add</i>	77.64 10.88	18.13
23 05 29 00-0036 EA 6" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) ..... <i>For Work In Restricted Working Space, Add</i>	96.20 12.99	21.65
23 05 29 00-0037 EA 8" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) ..... <i>For Work In Restricted Working Space, Add</i>	114.60 16.23	27.06
<b>23 05 29 00-0038 Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) (23 05 29 00-0002)</b>		
23 05 29 00-0039 EA 1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) ..... <i>For Work In Restricted Working Space, Add</i>	21.26 5.84	9.74
23 05 29 00-0040 EA 3/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) ..... <i>For Work In Restricted Working Space, Add</i>	23.47 6.50	10.82
23 05 29 00-0041 EA 1" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) ..... <i>For Work In Restricted Working Space, Add</i>	24.79 6.83	10.82
23 05 29 00-0042 EA 1-1/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) ..... <i>For Work In Restricted Working Space, Add</i>	25.47 7.03	11.71
23 05 29 00-0043 EA 1-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) ..... <i>For Work In Restricted Working Space, Add</i>	25.62 7.03	11.71
23 05 29 00-0044 EA 2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) ..... <i>For Work In Restricted Working Space, Add</i>	26.35 7.22	11.91
23 05 29 00-0045 EA 2-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) ..... <i>For Work In Restricted Working Space, Add</i>	28.73 7.43	12.34
23 05 29 00-0046 EA 3" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) ..... <i>For Work In Restricted Working Space, Add</i>	30.00 7.64	12.98
23 05 29 00-0047 EA 3-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) ..... <i>For Work In Restricted Working Space, Add</i>	33.80 8.66	15.16
23 05 29 00-0048 EA 4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) ..... <i>For Work In Restricted Working Space, Add</i>	34.84 8.66	15.16
<b>23 05 29 00-0049 Extended Steel Clevis Hanger (Cooper B-Line B3108) (23 05 29 00-0002)</b>		
23 05 29 00-0050 EA 3/4" Steel Extended Clevis Hanger (Cooper B-Line B3108) ..... <i>For Work In Restricted Working Space, Add</i>	30.01 6.50	10.82
23 05 29 00-0051 EA 1" Steel Extended Clevis Hanger (Cooper B-Line B3108) ..... <i>For Work In Restricted Working Space, Add</i>	31.22 6.83	10.82
23 05 29 00-0052 EA 1-1/4" Steel Extended Clevis Hanger (Cooper B-Line B3108) ..... <i>For Work In Restricted Working Space, Add</i>	31.86 7.03	11.71
23 05 29 00-0053 EA 1-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108) ..... <i>For Work In Restricted Working Space, Add</i>	32.90 7.03	11.71





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0054 EA 2" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	35.27	11.91
<i>For Work In Restricted Working Space, Add</i>	7.22	
23 05 29 00-0055 EA 2-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	37.79	12.34
<i>For Work In Restricted Working Space, Add</i>	7.43	
23 05 29 00-0056 EA 3" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	39.66	12.98
<i>For Work In Restricted Working Space, Add</i>	7.64	
23 05 29 00-0057 EA 4" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	47.59	15.16
<i>For Work In Restricted Working Space, Add</i>	8.66	
23 05 29 00-0058 EA 5" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	60.03	18.13
<i>For Work In Restricted Working Space, Add</i>	10.88	
23 05 29 00-0059 EA 6" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	74.05	21.65
<i>For Work In Restricted Working Space, Add</i>	12.99	
23 05 29 00-0060 EA 8" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	104.79	27.06
<i>For Work In Restricted Working Space, Add</i>	16.23	
23 05 29 00-0061 EA 10" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	147.09	36.79
<i>For Work In Restricted Working Space, Add</i>	21.65	
23 05 29 00-0062 EA 12" Steel Extended Clevis Hanger (Cooper B-Line B3108).....	165.21	40.58
<i>For Work In Restricted Working Space, Add</i>	24.35	
<b>23 05 29 00-0063 Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) (23 05 29 00-0002)</b>		
23 05 29 00-0064 EA 2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	36.50	11.91
<i>For Work In Restricted Working Space, Add</i>	7.22	
23 05 29 00-0065 EA 2-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	38.94	12.34
<i>For Work In Restricted Working Space, Add</i>	7.43	
23 05 29 00-0066 EA 3" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	40.97	12.98
<i>For Work In Restricted Working Space, Add</i>	7.64	
23 05 29 00-0067 EA 3-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	45.36	15.16
<i>For Work In Restricted Working Space, Add</i>	8.66	
23 05 29 00-0068 EA 4" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	47.96	15.16
<i>For Work In Restricted Working Space, Add</i>	8.66	
23 05 29 00-0069 EA 5" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	59.55	18.13
<i>For Work In Restricted Working Space, Add</i>	10.88	
23 05 29 00-0070 EA 6" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	69.52	21.65
<i>For Work In Restricted Working Space, Add</i>	12.99	
23 05 29 00-0071 EA 8" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109).....	92.23	27.06
<i>For Work In Restricted Working Space, Add</i>	16.23	
<b>23 05 29 00-0072 Adjustable Hangers (23 05 29 00-0001)</b>		
<b>23 05 29 00-0073 Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) (23 05 29 00-0072)</b>		
Note: Type 5.		
23 05 29 00-0074 EA 1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	19.66	8.57
<i>For Work In Restricted Working Space, Add</i>	5.14	
23 05 29 00-0075 EA 3/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	21.54	9.51
<i>For Work In Restricted Working Space, Add</i>	5.70	
23 05 29 00-0076 EA 1" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	23.62	10.56
<i>For Work In Restricted Working Space, Add</i>	6.34	
23 05 29 00-0077 EA 1-1/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	26.07	11.73
<i>For Work In Restricted Working Space, Add</i>	7.04	
23 05 29 00-0078 EA 1-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	27.39	12.32
<i>For Work In Restricted Working Space, Add</i>	7.39	
23 05 29 00-0079 EA 2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	29.35	12.91
<i>For Work In Restricted Working Space, Add</i>	7.75	
23 05 29 00-0080 EA 2-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	33.75	13.49
<i>For Work In Restricted Working Space, Add</i>	8.10	
23 05 29 00-0081 EA 3" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	35.26	14.08
<i>For Work In Restricted Working Space, Add</i>	8.45	
23 05 29 00-0082 EA 4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690).....	42.01	15.84
<i>For Work In Restricted Working Space, Add</i>	9.50	
<b>23 05 29 00-0083 Adjustable Swivel Steel Ring (Cooper B-Line B3170) (23 05 29 00-0072)</b>		
Note: Type 10.		
23 05 29 00-0084 EA 1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	22.80	10.82
<i>For Work In Restricted Working Space, Add</i>	6.50	
<i>For 304 Stainless Steel, Add</i>	7.59	
<i>For 316 Stainless Steel, Add</i>	9.78	
23 05 29 00-0085 EA 3/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	24.04	10.82
<i>For Work In Restricted Working Space, Add</i>	6.83	
<i>For 304 Stainless Steel, Add</i>	8.32	
<i>For 316 Stainless Steel, Add</i>	10.71	
23 05 29 00-0086 EA 1" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	25.31	11.91
<i>For Work In Restricted Working Space, Add</i>	7.22	
<i>For 304 Stainless Steel, Add</i>	8.32	
<i>For 316 Stainless Steel, Add</i>	10.71	
23 05 29 00-0087 EA 1-1/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	26.88	12.98
<i>For Work In Restricted Working Space, Add</i>	7.64	
<i>For 304 Stainless Steel, Add</i>	9.31	
<i>For 316 Stainless Steel, Add</i>	11.99	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0088 EA 1-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) .....	30.27	15.16
For Work In Restricted Working Space, Add	8.66	
For 304 Stainless Steel, Add	9.31	
For 316 Stainless Steel, Add	11.99	
23 05 29 00-0089 EA 2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) .....	32.41	15.16
For Work In Restricted Working Space, Add	9.28	
For 304 Stainless Steel, Add	9.83	
For 316 Stainless Steel, Add	12.67	
23 05 29 00-0090 EA 2-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) .....	35.72	16.23
For Work In Restricted Working Space, Add	9.99	
For 304 Stainless Steel, Add	15.97	
For 316 Stainless Steel, Add	20.57	
23 05 29 00-0091 EA 3" Adjustable Swivel Steel Ring (Cooper B-Line B3170) .....	38.61	18.40
For Work In Restricted Working Space, Add	10.82	
For 304 Stainless Steel, Add	16.70	
For 316 Stainless Steel, Add	21.51	
23 05 29 00-0092 EA 3-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170) .....	42.89	19.75
For Work In Restricted Working Space, Add	11.85	
For 304 Stainless Steel, Add	22.31	
For 316 Stainless Steel, Add	28.73	
23 05 29 00-0093 EA 4" Adjustable Swivel Steel Ring (Cooper B-Line B3170) .....	46.67	21.65
For Work In Restricted Working Space, Add	12.99	
For 304 Stainless Steel, Add	22.31	
For 316 Stainless Steel, Add	28.73	
23 05 29 00-0094 EA 5" Adjustable Swivel Steel Ring (Cooper B-Line B3170) .....	55.73	24.35
For Work In Restricted Working Space, Add	14.61	
For 304 Stainless Steel, Add	46.40	
For 316 Stainless Steel, Add	59.76	
23 05 29 00-0095 EA 6" Adjustable Swivel Steel Ring (Cooper B-Line B3170) .....	61.24	27.06
For Work In Restricted Working Space, Add	16.23	
For 304 Stainless Steel, Add	47.06	
For 316 Stainless Steel, Add	60.61	
23 05 29 00-0096 EA 8" Adjustable Swivel Steel Ring (Cooper B-Line B3170) .....	73.40	32.47
For Work In Restricted Working Space, Add	19.48	
For 304 Stainless Steel, Add	55.90	
For 316 Stainless Steel, Add	72.00	
<b>23 05 29 00-0097 Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) (23 05 29 00-0072)</b>		
23 05 29 00-0098 EA 1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) .....	23.46	10.82
For Work In Restricted Working Space, Add	6.50	
For 304 Stainless Steel, Add	11.95	
For 316 Stainless Steel, Add	15.39	
23 05 29 00-0099 EA 3/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) .....	24.59	10.82
For Work In Restricted Working Space, Add	6.83	
For 304 Stainless Steel, Add	11.95	
For 316 Stainless Steel, Add	15.39	
23 05 29 00-0100 EA 1" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) .....	25.86	11.91
For Work In Restricted Working Space, Add	7.22	
For 304 Stainless Steel, Add	11.95	
For 316 Stainless Steel, Add	15.39	
23 05 29 00-0101 EA 1-1/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) .....	27.28	12.98
For Work In Restricted Working Space, Add	7.64	
For 304 Stainless Steel, Add	11.95	
For 316 Stainless Steel, Add	15.39	
23 05 29 00-0102 EA 1-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) .....	30.83	15.16
For Work In Restricted Working Space, Add	8.66	
For 304 Stainless Steel, Add	13.00	
For 316 Stainless Steel, Add	16.75	
23 05 29 00-0103 EA 2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) .....	32.89	15.16
For Work In Restricted Working Space, Add	9.28	
For 304 Stainless Steel, Add	13.00	
For 316 Stainless Steel, Add	16.75	
23 05 29 00-0104 EA 2-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) .....	38.46	16.23
For Work In Restricted Working Space, Add	9.99	
For 304 Stainless Steel, Add	34.06	
For 316 Stainless Steel, Add	43.86	
23 05 29 00-0105 EA 3" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) .....	42.47	18.40
For Work In Restricted Working Space, Add	10.82	
For 304 Stainless Steel, Add	42.17	
For 316 Stainless Steel, Add	54.32	
23 05 29 00-0106 EA 3-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) .....	46.40	19.75
For Work In Restricted Working Space, Add	11.85	
For 304 Stainless Steel, Add	45.47	
For 316 Stainless Steel, Add	58.57	
23 05 29 00-0107 EA 4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) .....	51.68	21.65
For Work In Restricted Working Space, Add	12.99	
For 304 Stainless Steel, Add	55.37	
For 316 Stainless Steel, Add	71.32	
23 05 29 00-0108 EA 5" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) .....	57.21	24.35
For Work In Restricted Working Space, Add	14.61	
For 304 Stainless Steel, Add	56.17	
For 316 Stainless Steel, Add	72.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0109 EA 6" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	66.43 16.23 81.31 104.72	27.06
<b>23 05 29 00-0110 Roller Hangers (23 05 29 00-0001)</b>		
<b>23 05 29 00-0111 Single Pipe Roll (Cooper B-Line B3114) (23 05 29 00-0110)</b> Note: Excludes rod and nuts. Type 41.		
23 05 29 00-0112 EA 2" Single Pipe Roll (Cooper B-Line B3114) ..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	33.71 5.20	8.66
23 05 29 00-0113 EA 2-1/2" Single Pipe Roll (Cooper B-Line B3114) ..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	37.09 5.84	9.74
23 05 29 00-0114 EA 3" Single Pipe Roll (Cooper B-Line B3114) ..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	41.31 6.82	11.37
23 05 29 00-0115 EA 3-1/2" Single Pipe Roll (Cooper B-Line B3114) ..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	47.53 7.79	12.99
23 05 29 00-0116 EA 4" Single Pipe Roll (Cooper B-Line B3114) ..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	65.54 8.77	14.62
23 05 29 00-0117 EA 5" Single Pipe Roll (Cooper B-Line B3114) ..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	58.64 9.74	16.24
23 05 29 00-0118 EA 6" Single Pipe Roll (Cooper B-Line B3114) ..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	72.94 11.69	19.48
23 05 29 00-0119 EA 8" Single Pipe Roll (Cooper B-Line B3114) ..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	98.16 13.64	22.73
23 05 29 00-0120 EA 10" Single Pipe Roll (Cooper B-Line B3114) ..... Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	116.37 16.24	27.07
<b>23 05 29 00-0121 Adjustable Clevis Roller Hanger (Cooper B-Line B3110) (23 05 29 00-0110)</b> Note: Type 43.		
23 05 29 00-0122 EA 2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	50.33 8.82 138.07 177.82	15.30
23 05 29 00-0123 EA 2-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	52.45 9.46 138.07 177.82	15.76
23 05 29 00-0124 EA 3" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	56.94 10.08 153.98 198.31	16.47
23 05 29 00-0125 EA 3-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	66.34 10.58 205.00 264.01	17.65
23 05 29 00-0126 EA 4" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	70.26 11.76 205.00 264.01	20.00
23 05 29 00-0127 EA 5" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	79.31 12.92 239.32 308.21	21.53
23 05 29 00-0128 EA 6" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	92.08 14.12 297.20 382.76	23.53
23 05 29 00-0129 EA 8" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	126.21 17.64 444.84 572.90	29.41
23 05 29 00-0130 EA 10" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	158.71 23.53 529.91 682.47	39.99
23 05 29 00-0131 EA 12" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	206.26 26.47 779.06 1,003.34	44.11
23 05 29 00-0132 EA 14" Steel Clevis Roller Hanger (Cooper B-Line B3110)..... <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	428.27 30.35 2,158.93 2,780.44	50.58

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0133 EA 16" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	537.51	58.81
For Work In Restricted Working Space, Add	35.29	
For 304 Stainless Steel, Add	2,771.27	
For 316 Stainless Steel, Add	3,569.07	
<b>23 05 29 00-0134 Roller Chair (Cooper B-Line B3120) (23 05 29 00-0110)</b>		
23 05 29 00-0135 EA 2" Steel Roller Chair (Cooper B-Line B3120).....	48.95	15.30
For Work In Restricted Working Space, Add	8.82	
23 05 29 00-0136 EA 2-1/2" Steel Roller Chair (Cooper B-Line B3120).....	52.75	15.76
For Work In Restricted Working Space, Add	9.46	
23 05 29 00-0137 EA 3" Steel Roller Chair (Cooper B-Line B3120).....	55.31	16.47
For Work In Restricted Working Space, Add	10.08	
23 05 29 00-0138 EA 3-1/2" Steel Roller Chair (Cooper B-Line B3120).....	62.92	17.65
For Work In Restricted Working Space, Add	10.58	
23 05 29 00-0139 EA 4" Steel Roller Chair (Cooper B-Line B3120).....	70.11	20.00
For Work In Restricted Working Space, Add	11.76	
23 05 29 00-0140 EA 5" Steel Roller Chair (Cooper B-Line B3120).....	76.64	21.53
For Work In Restricted Working Space, Add	12.92	
23 05 29 00-0141 EA 6" Steel Roller Chair (Cooper B-Line B3120).....	93.83	23.53
For Work In Restricted Working Space, Add	14.12	
23 05 29 00-0142 EA 8" Steel Roller Chair (Cooper B-Line B3120).....	122.05	29.41
For Work In Restricted Working Space, Add	17.64	
23 05 29 00-0143 EA 10" Steel Roller Chair (Cooper B-Line B3120).....	157.75	39.99
For Work In Restricted Working Space, Add	23.53	
23 05 29 00-0144 EA 12" Steel Roller Chair (Cooper B-Line B3120).....	203.74	44.11
For Work In Restricted Working Space, Add	26.47	
23 05 29 00-0145 EA 14" Steel Roller Chair (Cooper B-Line B3120).....	222.32	50.58
For Work In Restricted Working Space, Add	30.35	
23 05 29 00-0146 EA 16" Steel Roller Chair (Cooper B-Line B3120).....	268.02	58.81
For Work In Restricted Working Space, Add	35.29	
23 05 29 00-0147 EA 18" Steel Roller Chair (Cooper B-Line B3120).....	361.19	73.51
For Work In Restricted Working Space, Add	44.11	
23 05 29 00-0148 EA 20" Steel Roller Chair (Cooper B-Line B3120).....	446.88	88.22
For Work In Restricted Working Space, Add	52.93	
<b>23 05 29 00-0149 Adjustable Roller Support (Cooper B-Line B3122) (23 05 29 00-0110)</b>		
23 05 29 00-0150 EA 2" Steel Adjustable Roller Support (Cooper B-Line B3122).....	55.38	15.30
For Work In Restricted Working Space, Add	8.82	
23 05 29 00-0151 EA 2-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122).....	62.26	15.76
For Work In Restricted Working Space, Add	9.46	
23 05 29 00-0152 EA 3" Steel Adjustable Roller Support (Cooper B-Line B3122).....	65.45	16.47
For Work In Restricted Working Space, Add	10.08	
23 05 29 00-0153 EA 3-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122).....	69.13	17.65
For Work In Restricted Working Space, Add	10.58	
23 05 29 00-0154 EA 4" Steel Adjustable Roller Support (Cooper B-Line B3122).....	83.12	20.00
For Work In Restricted Working Space, Add	11.76	
23 05 29 00-0155 EA 5" Steel Adjustable Roller Support (Cooper B-Line B3122).....	94.25	21.53
For Work In Restricted Working Space, Add	12.92	
23 05 29 00-0156 EA 6" Steel Adjustable Roller Support (Cooper B-Line B3122).....	109.73	23.53
For Work In Restricted Working Space, Add	14.12	
23 05 29 00-0157 EA 8" Steel Adjustable Roller Support (Cooper B-Line B3122).....	154.78	29.41
For Work In Restricted Working Space, Add	17.64	
23 05 29 00-0158 EA 10" Steel Adjustable Roller Support (Cooper B-Line B3122).....	193.04	39.99
For Work In Restricted Working Space, Add	23.53	
23 05 29 00-0159 EA 12" Steel Adjustable Roller Support (Cooper B-Line B3122).....	223.28	44.11
For Work In Restricted Working Space, Add	26.47	
23 05 29 00-0160 EA 14" Steel Adjustable Roller Support (Cooper B-Line B3122).....	315.88	50.58
For Work In Restricted Working Space, Add	30.35	
23 05 29 00-0161 EA 16" Steel Adjustable Roller Support (Cooper B-Line B3122).....	378.67	58.81
For Work In Restricted Working Space, Add	35.29	
23 05 29 00-0162 EA 18" Steel Adjustable Roller Support (Cooper B-Line B3122).....	430.04	73.51
For Work In Restricted Working Space, Add	44.11	
<b>23 05 29 00-0163 Adjustable Double Roller Support (Cooper B-Line B3122A) (23 05 29 00-0110)</b>		
23 05 29 00-0164 EA 2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	55.76	15.30
For Work In Restricted Working Space, Add	8.82	
23 05 29 00-0165 EA 2-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	62.59	15.76
For Work In Restricted Working Space, Add	9.46	
23 05 29 00-0166 EA 3" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	66.01	16.47
For Work In Restricted Working Space, Add	10.08	
23 05 29 00-0167 EA 3-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	68.64	17.65
For Work In Restricted Working Space, Add	10.58	
23 05 29 00-0168 EA 4" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	86.87	20.00
For Work In Restricted Working Space, Add	11.76	
23 05 29 00-0169 EA 5" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	98.67	21.53
For Work In Restricted Working Space, Add	12.92	
23 05 29 00-0170 EA 6" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	115.01	23.53
For Work In Restricted Working Space, Add	14.12	
23 05 29 00-0171 EA 8" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	162.96	29.41
For Work In Restricted Working Space, Add	17.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0172 EA 10" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) ..... <i>For Work In Restricted Working Space, Add</i>	202.85 23.53	39.99
23 05 29 00-0173 EA 12" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) ..... <i>For Work In Restricted Working Space, Add</i>	234.76 26.47	44.11
23 05 29 00-0174 EA 14" Steel Adjustable Double Roller Support (Cooper B-Line B3122A) ..... <i>For Work In Restricted Working Space, Add</i>	334.23 30.35	50.58
<b>23 05 29 00-0175 Pipe And Riser Clamps</b> (23 05 29 00-0001) Note: Includes bolts and weldless eye nuts.		
<b>23 05 29 00-0176 Steel Pipe Clamp (Cooper B-Line B3140)</b> (23 05 29 00-0175) Note: Type 4.		
23 05 29 00-0177 EA 1/2" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	18.95 4.22	7.04
23 05 29 00-0178 EA 3/4" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	19.18 4.29	7.16
23 05 29 00-0179 EA 1" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	19.45 4.37	7.27
23 05 29 00-0180 EA 1-1/4" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	21.17 4.43	7.39
23 05 29 00-0181 EA 1-1/2" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	21.40 4.50	7.51
23 05 29 00-0182 EA 2" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	22.77 4.58	7.62
23 05 29 00-0183 EA 2-1/2" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	23.68 4.72	7.86
23 05 29 00-0184 EA 3" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	25.07 4.86	8.09
23 05 29 00-0185 EA 3-1/2" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	28.99 4.93	8.21
23 05 29 00-0186 EA 4" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	33.68 6.34	10.56
23 05 29 00-0187 EA 5" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	48.22 8.45	14.08
23 05 29 00-0188 EA 6" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	65.96 10.56	17.60
23 05 29 00-0189 EA 8" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	77.63 12.32	20.53
23 05 29 00-0190 EA 10" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	112.84 14.08	23.47
23 05 29 00-0191 EA 12" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	153.57 15.49	25.82
23 05 29 00-0192 EA 14" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	247.67 16.90	28.16
23 05 29 00-0193 EA 16" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	268.45 18.30	30.51
23 05 29 00-0194 EA 18" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	435.25 19.71	32.86
23 05 29 00-0195 EA 20" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	503.18 21.12	35.20
23 05 29 00-0196 EA 24" Steel Pipe Clamp (Cooper B-Line B3140) ..... <i>For Work In Restricted Working Space, Add</i>	655.42 23.23	38.72
<b>23 05 29 00-0197 Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142)</b> (23 05 29 00-0175)		
23 05 29 00-0198 EA 3" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	38.41 4.51	7.58
23 05 29 00-0199 EA 4" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	50.41 4.51	7.58
23 05 29 00-0200 EA 5" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	55.33 4.70	7.84
23 05 29 00-0201 EA 6" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	88.26 4.90	8.12
23 05 29 00-0202 EA 8" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	96.03 5.19	8.65
23 05 29 00-0203 EA 10" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	164.33 5.18	8.65
23 05 29 00-0204 EA 12" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	265.84 5.84	9.74
23 05 29 00-0205 EA 14" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	337.24 6.50	10.82
23 05 29 00-0206 EA 16" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	366.72 7.79	12.98
23 05 29 00-0207 EA 18" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	1,139.78 9.09	15.16
23 05 29 00-0208 EA 20" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	1,310.10 9.74	16.23
23 05 29 00-0209 EA 24" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) ..... <i>For Work In Restricted Working Space, Add</i>	1,678.02 10.39	17.32
<b>23 05 29 00-0210 Steel Riser Clamp (Cooper B-Line B3373)</b> (23 05 29 00-0175) Note: Type 8.		

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0211 EA 1/2" Steel Riser Clamp (Cooper B-Line B3373).....	19.07	6.49
<i>For Work In Restricted Working Space, Add</i>	3.89	
23 05 29 00-0212 EA 3/4" Steel Riser Clamp (Cooper B-Line B3373).....	19.86	6.60
<i>For Work In Restricted Working Space, Add</i>	3.96	
23 05 29 00-0213 EA 1" Steel Riser Clamp (Cooper B-Line B3373).....	20.15	6.71
<i>For Work In Restricted Working Space, Add</i>	4.03	
23 05 29 00-0214 EA 1-1/4" Steel Riser Clamp (Cooper B-Line B3373).....	21.78	6.81
<i>For Work In Restricted Working Space, Add</i>	4.09	
23 05 29 00-0215 EA 1-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	22.62	6.92
<i>For Work In Restricted Working Space, Add</i>	4.16	
23 05 29 00-0216 EA 2" Steel Riser Clamp (Cooper B-Line B3373).....	23.18	7.04
<i>For Work In Restricted Working Space, Add</i>	4.22	
23 05 29 00-0217 EA 2-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	24.16	7.25
<i>For Work In Restricted Working Space, Add</i>	4.35	
23 05 29 00-0218 EA 3" Steel Riser Clamp (Cooper B-Line B3373).....	25.60	7.47
<i>For Work In Restricted Working Space, Add</i>	4.48	
23 05 29 00-0219 EA 3-1/2" Steel Riser Clamp (Cooper B-Line B3373).....	28.13	7.58
<i>For Work In Restricted Working Space, Add</i>	4.55	
23 05 29 00-0220 EA 4" Steel Riser Clamp (Cooper B-Line B3373).....	34.16	9.74
<i>For Work In Restricted Working Space, Add</i>	5.84	
23 05 29 00-0221 EA 5" Steel Riser Clamp (Cooper B-Line B3373).....	44.18	12.98
<i>For Work In Restricted Working Space, Add</i>	7.79	
23 05 29 00-0222 EA 6" Steel Riser Clamp (Cooper B-Line B3373).....	56.03	16.23
<i>For Work In Restricted Working Space, Add</i>	9.74	
23 05 29 00-0223 EA 8" Steel Riser Clamp (Cooper B-Line B3373).....	76.45	18.93
<i>For Work In Restricted Working Space, Add</i>	11.36	
23 05 29 00-0224 EA 10" Steel Riser Clamp (Cooper B-Line B3373).....	100.36	21.65
<i>For Work In Restricted Working Space, Add</i>	12.99	
23 05 29 00-0225 EA 12" Steel Riser Clamp (Cooper B-Line B3373).....	121.33	23.81
<i>For Work In Restricted Working Space, Add</i>	14.29	
23 05 29 00-0226 EA 14" Steel Riser Clamp (Cooper B-Line B3373).....	162.86	25.97
<i>For Work In Restricted Working Space, Add</i>	15.59	
23 05 29 00-0227 EA 16" Steel Riser Clamp (Cooper B-Line B3373).....	309.45	28.14
<i>For Work In Restricted Working Space, Add</i>	16.88	
<b>23 05 29 00-0228 Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C) (23 05 29 00-0175)</b>		
23 05 29 00-0229 EA 1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	33.56	6.49
<i>For Work In Restricted Working Space, Add</i>	3.89	
23 05 29 00-0230 EA 3/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	34.09	6.60
<i>For Work In Restricted Working Space, Add</i>	3.96	
23 05 29 00-0231 EA 1" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	35.49	6.71
<i>For Work In Restricted Working Space, Add</i>	4.03	
23 05 29 00-0232 EA 1-1/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	37.94	6.81
<i>For Work In Restricted Working Space, Add</i>	4.09	
23 05 29 00-0233 EA 1-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	42.83	6.92
<i>For Work In Restricted Working Space, Add</i>	4.16	
23 05 29 00-0234 EA 2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	45.50	7.04
<i>For Work In Restricted Working Space, Add</i>	4.22	
23 05 29 00-0235 EA 2-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	49.24	7.25
<i>For Work In Restricted Working Space, Add</i>	4.35	
23 05 29 00-0236 EA 3" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	54.09	7.47
<i>For Work In Restricted Working Space, Add</i>	4.48	
23 05 29 00-0237 EA 4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C).....	73.25	9.74
<i>For Work In Restricted Working Space, Add</i>	5.84	
<b>23 05 29 00-0238 Two Bolt Steel Underground Clamp (Cooper B-Line B3132) (23 05 29 00-0175)</b>		
Note: Type 42		
23 05 29 00-0239 EA 4" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	75.46	7.58
<i>For Work In Restricted Working Space, Add</i>	4.51	
23 05 29 00-0240 EA 6" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	80.09	8.12
<i>For Work In Restricted Working Space, Add</i>	4.90	
23 05 29 00-0241 EA 8" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	87.95	8.65
<i>For Work In Restricted Working Space, Add</i>	5.19	
23 05 29 00-0242 EA 10" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	93.88	8.65
<i>For Work In Restricted Working Space, Add</i>	5.18	
23 05 29 00-0243 EA 12" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	113.56	9.74
<i>For Work In Restricted Working Space, Add</i>	5.84	
23 05 29 00-0244 EA 14" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	352.46	10.82
<i>For Work In Restricted Working Space, Add</i>	6.50	
23 05 29 00-0245 EA 16" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	472.16	12.98
<i>For Work In Restricted Working Space, Add</i>	7.79	
23 05 29 00-0246 EA 18" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	562.62	15.16
<i>For Work In Restricted Working Space, Add</i>	9.09	
23 05 29 00-0247 EA 20" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	819.52	16.23
<i>For Work In Restricted Working Space, Add</i>	9.74	
23 05 29 00-0248 EA 24" Two Bolt Steel Underground Clamp (Cooper B-Line B3132).....	1,129.47	17.32
<i>For Work In Restricted Working Space, Add</i>	10.39	
<b>23 05 29 00-0249 Four Bolt Steel Underground Clamp (Cooper B-Line B3134) (23 05 29 00-0175)</b>		
23 05 29 00-0250 EA 4" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	69.66	7.58
<i>For Work In Restricted Working Space, Add</i>	4.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0251 EA 6" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	75.11	8.12
For Work In Restricted Working Space, Add	4.90	
23 05 29 00-0252 EA 8" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	131.22	8.65
For Work In Restricted Working Space, Add	5.19	
23 05 29 00-0253 EA 10" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	145.90	8.65
For Work In Restricted Working Space, Add	5.18	
23 05 29 00-0254 EA 12" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	209.47	9.74
For Work In Restricted Working Space, Add	5.84	
23 05 29 00-0255 EA 14" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	321.16	10.82
For Work In Restricted Working Space, Add	6.50	
23 05 29 00-0256 EA 16" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	430.77	12.98
For Work In Restricted Working Space, Add	7.79	
23 05 29 00-0257 EA 18" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	512.72	15.16
For Work In Restricted Working Space, Add	9.09	
23 05 29 00-0258 EA 20" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	749.44	16.23
For Work In Restricted Working Space, Add	9.74	
23 05 29 00-0259 EA 24" Four Bolt Steel Underground Clamp (Cooper B-Line B3134).....	1,025.73	17.32
For Work In Restricted Working Space, Add	10.39	
<b>23 05 29 00-0260 Split Pipe Clamps And Rings <small>(23 05 29 00-0001)</small></b>		
<b>23 05 29 00-0261 Adjustable Split Ring Swivel Hanger (Cooper B-Line B3171) <small>(23 05 29 00-0260)</small></b>		
Note: Type 6.		
23 05 29 00-0262 EA 3/4" Adjustable Swivel Ring (Cooper B-Line B3171) .....	31.66	9.97
For Work In Restricted Working Space, Add	5.99	
23 05 29 00-0263 EA 1" Adjustable Swivel Ring (Cooper B-Line B3171) .....	33.53	10.56
For Work In Restricted Working Space, Add	6.34	
23 05 29 00-0264 EA 1-1/4" Adjustable Swivel Ring (Cooper B-Line B3171) .....	36.47	11.73
For Work In Restricted Working Space, Add	7.04	
23 05 29 00-0265 EA 1-1/2" Adjustable Swivel Ring (Cooper B-Line B3171) .....	39.28	12.32
For Work In Restricted Working Space, Add	7.39	
23 05 29 00-0266 EA 2" Adjustable Swivel Ring (Cooper B-Line B3171) .....	42.43	12.91
For Work In Restricted Working Space, Add	7.75	
23 05 29 00-0267 EA 2-1/2" Adjustable Swivel Ring (Cooper B-Line B3171) .....	52.30	13.49
For Work In Restricted Working Space, Add	8.10	
23 05 29 00-0268 EA 3" Adjustable Swivel Ring (Cooper B-Line B3171) .....	57.36	14.08
For Work In Restricted Working Space, Add	8.45	
23 05 29 00-0269 EA 4" Adjustable Swivel Ring (Cooper B-Line B3171) .....	76.23	15.84
For Work In Restricted Working Space, Add	9.50	
23 05 29 00-0270 EA 5" Adjustable Swivel Ring (Cooper B-Line B3171) .....	96.94	19.95
For Work In Restricted Working Space, Add	11.97	
23 05 29 00-0271 EA 6" Adjustable Swivel Ring (Cooper B-Line B3171) .....	129.49	23.47
For Work In Restricted Working Space, Add	14.08	
<b>23 05 29 00-0272 Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) <small>(23 05 29 00-0260)</small></b>		
Note: Type 11.		
23 05 29 00-0273 EA 1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	20.59	8.23
For Work In Restricted Working Space, Add	5.04	
23 05 29 00-0274 EA 3/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	21.71	8.23
For Work In Restricted Working Space, Add	5.27	
23 05 29 00-0275 EA 1" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	23.91	10.58
For Work In Restricted Working Space, Add	5.88	
23 05 29 00-0276 EA 1-1/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) .....	25.98	10.58
For Work In Restricted Working Space, Add	6.19	
23 05 29 00-0277 EA 1-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) .....	29.00	10.58
For Work In Restricted Working Space, Add	6.41	
23 05 29 00-0278 EA 2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	33.89	11.75
For Work In Restricted Working Space, Add	7.06	
23 05 29 00-0279 EA 2-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) .....	45.19	11.75
For Work In Restricted Working Space, Add	7.35	
23 05 29 00-0280 EA 3" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	50.23	12.93
For Work In Restricted Working Space, Add	7.67	
23 05 29 00-0281 EA 4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R).....	53.49	14.11
For Work In Restricted Working Space, Add	8.40	
<b>23 05 29 00-0282 Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) <small>(23 05 29 00-0280)</small></b>		
Note: Type 12.		
23 05 29 00-0283 EA 1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	20.59	8.23
For Work In Restricted Working Space, Add	5.04	
23 05 29 00-0284 EA 3/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	21.71	8.82
For Work In Restricted Working Space, Add	5.27	
23 05 29 00-0285 EA 1" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	23.91	10.00
For Work In Restricted Working Space, Add	5.88	
23 05 29 00-0286 EA 1-1/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) .....	25.98	10.58
For Work In Restricted Working Space, Add	6.19	
23 05 29 00-0287 EA 1-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) .....	29.00	10.58
For Work In Restricted Working Space, Add	6.41	
23 05 29 00-0288 EA 2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	33.89	11.75
For Work In Restricted Working Space, Add	7.06	
23 05 29 00-0289 EA 2-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) .....	45.19	12.35
For Work In Restricted Working Space, Add	7.35	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0290 EA 3" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H)..... <i>For Work In Restricted Working Space, Add</i>	50.23 7.67	12.93
<b>23 05 29 00-0291 Pipe Straps (23 05 29 00-0001)</b>		
<b>23 05 29 00-0292 Standard Two Hole Pipe Strap, Steel (Cooper B-Line B-3180) (23 05 29 00-0291)</b> Note: Type 26.		
23 05 29 00-0293 EA 1/2" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) ..... <i>For Work In Restricted Working Space, Add</i>	15.41 3.53	5.88
23 05 29 00-0294 EA 3/4" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) ..... <i>For Work In Restricted Working Space, Add</i>	16.26 3.71	7.05
23 05 29 00-0295 EA 1" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) ..... <i>For Work In Restricted Working Space, Add</i>	17.03 3.92	7.05
23 05 29 00-0296 EA 1-1/4" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) ..... <i>For Work In Restricted Working Space, Add</i>	17.95 4.15	7.05
23 05 29 00-0297 EA 1-1/2" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) ..... <i>For Work In Restricted Working Space, Add</i>	18.95 4.41	8.23
23 05 29 00-0298 EA 2" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) ..... <i>For Work In Restricted Working Space, Add</i>	20.26 4.70	8.23
23 05 29 00-0299 EA 2-1/2" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) ..... <i>For Work In Restricted Working Space, Add</i>	29.55 5.04	8.23
23 05 29 00-0300 EA 3" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) ..... <i>For Work In Restricted Working Space, Add</i>	32.56 5.43	8.23
23 05 29 00-0301 EA 4" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) ..... <i>For Work In Restricted Working Space, Add</i>	38.58 6.35	10.58
23 05 29 00-0302 EA 6" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) ..... <i>For Work In Restricted Working Space, Add</i>	47.52 7.06	11.75
23 05 29 00-0303 EA 8" Standard Two Hole Pipe Strap, Plain Steel (Cooper B-Line B-3180) ..... <i>For Work In Restricted Working Space, Add</i>	54.52 7.76	12.93
<b>23 05 29 00-0304 2-Hole Copper Straps (23 05 29 00-0291)</b>		
23 05 29 00-0305 EA 1/2" 2-Hole Copper Straps..... <i>For Work In Restricted Working Space, Add</i>	6.13 1.76	
23 05 29 00-0306 EA 3/4" 2-Hole Copper Straps..... <i>For Work In Restricted Working Space, Add</i>	6.60 1.85	
23 05 29 00-0307 EA 1" 2-Hole Copper Straps..... <i>For Work In Restricted Working Space, Add</i>	3.17 0.80	
<b>23 05 29 00-0308 Black Malleable Iron Clamps, 1 Hole (23 05 29 00-0291)</b>		
23 05 29 00-0309 EA 1/2" Galvanized Steel Strap, 1 Hole..... <i>For Work In Restricted Working Space, Add</i>	2.77 0.59	
23 05 29 00-0310 EA 3/4" Galvanized Steel Strap, 1 Hole..... <i>For Work In Restricted Working Space, Add</i>	3.05 0.63	
23 05 29 00-0311 EA 1" Galvanized Steel Strap, 1 Hole..... <i>For Work In Restricted Working Space, Add</i>	3.71 0.68	
23 05 29 00-0312 EA 1-1/4" Galvanized Steel Strap, 1 Hole..... <i>For Work In Restricted Working Space, Add</i>	4.27 0.74	
23 05 29 00-0313 EA 1-1/2" Galvanized Steel Strap, 1 Hole..... <i>For Work In Restricted Working Space, Add</i>	4.83 0.80	
23 05 29 00-0314 EA 2" Galvanized Steel Strap, 1 Hole..... <i>For Work In Restricted Working Space, Add</i>	6.36 0.88	
<b>23 05 29 00-0315 Pipe and Equipment Support Brackets (23 05 29 00-0001)</b>		
<b>23 05 29 00-0316 Pipe and Equipment Supports, Light Duty Welded Steel Bracket (Cooper B-Line B3068) (23 05 29 00-0315)</b> Note: Up to 750# load.		
23 05 29 00-0317 EA 9" x 9" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068) ..... <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	126.41 20.09 7.79	12.98
23 05 29 00-0318 EA 13" x 13" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068)..... <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	128.24 20.45 7.79	12.98
23 05 29 00-0319 EA 19" x 19" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068)..... <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	135.51 21.91 7.79	12.98
<b>23 05 29 00-0320 Pipe and Equipment Supports, Medium Duty Welded Steel Bracket (Cooper B-Line B3066) (23 05 29 00-0315)</b> Note: Up to 1500# load.		
23 05 29 00-0321 EA 12" Wide x 18" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) ..... <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	303.88 55.58 7.79	12.98
23 05 29 00-0322 EA 18" Wide x 24" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066) ..... <i>For Galvanized, Add</i> <i>For Work In Restricted Working Space, Add</i>	356.12 66.03 7.79	12.98





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0323	EA			24" Wide x 30" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066).....	462.65	12.98
				<i>For Galvanized, Add</i>	87.34	
				<i>For Work In Restricted Working Space, Add</i>	7.79	
<b>23 05 29 00-0324</b>				<b>Pipe Alignment Guide</b> <small>(23 05 29 00-0001)</small>		
<b>23 05 29 00-0325</b>				<b>Pipe Alignment Guide, 1" Insulation</b> <small>(23 05 29 00-0324)</small>		
23 05 29 00-0326	EA			1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1/2).....	307.21	20.56
23 05 29 00-0327	EA			3/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3/4).....	308.29	21.11
23 05 29 00-0328	EA			1" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1).....	309.37	21.65
23 05 29 00-0329	EA			1-1/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/4).....	310.45	22.19
23 05 29 00-0330	EA			1-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/2).....	337.46	22.72
23 05 29 00-0331	EA			2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2).....	345.82	24.89
23 05 29 00-0332	EA			2-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2-1/2).....	347.44	25.71
23 05 29 00-0333	EA			3" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3).....	349.06	26.51
23 05 29 00-0334	EA			4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-4).....	369.50	28.14
23 05 29 00-0335	EA			5" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-5).....	433.46	35.72
23 05 29 00-0336	EA			6" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-6).....	448.61	43.29
23 05 29 00-0337	EA			8" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-8).....	510.32	54.11
23 05 29 00-0338	EA			10" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-10).....	912.57	64.93
23 05 29 00-0339	EA			12" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-12).....	1,378.04	86.58
23 05 29 00-0340	EA			14" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-14).....	1,697.25	108.23
23 05 29 00-0341	EA			16" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-16).....	2,034.23	121.22
23 05 29 00-0342	EA			18" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-18).....	2,198.09	135.29
23 05 29 00-0343	EA			20" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-20).....	2,345.77	154.76
23 05 29 00-0344	EA			24" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-24).....	2,926.76	162.34
<b>23 05 29 00-0345</b>				<b>Pipe Alignment Guide, 1-1/2" Insulation</b> <small>(23 05 29 00-0324)</small>		
23 05 29 00-0346	EA			1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1/2).....	308.29	21.11
23 05 29 00-0347	EA			3/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3/4).....	335.29	21.65
23 05 29 00-0348	EA			1" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1).....	336.37	22.19
23 05 29 00-0349	EA			1-1/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/4).....	337.46	22.72
23 05 29 00-0350	EA			1-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/2).....	338.53	23.27
23 05 29 00-0351	EA			2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2).....	346.89	25.44
23 05 29 00-0352	EA			2-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2-1/2).....	348.52	26.24
23 05 29 00-0353	EA			3" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3).....	367.33	27.06
23 05 29 00-0354	EA			4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-4).....	370.58	28.68
23 05 29 00-0355	EA			5" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-5).....	435.08	36.52
23 05 29 00-0356	EA			6" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-6).....	450.77	44.37
23 05 29 00-0357	EA			8" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-8).....	513.02	55.47
23 05 29 00-0358	EA			10" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-10).....	915.81	66.56
23 05 29 00-0359	EA			12" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-12).....	1,382.37	88.74
23 05 29 00-0360	EA			14" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-14).....	1,702.67	110.93
23 05 29 00-0361	EA			16" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-16).....	2,040.72	124.46
23 05 29 00-0362	EA			18" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-18).....	2,204.58	138.53
23 05 29 00-0363	EA			20" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-20).....	2,353.34	158.55
23 05 29 00-0364	EA			24" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-24).....	2,934.87	166.40
<b>23 05 29 00-0365</b>				<b>Pipe Alignment Guide, 2" Insulation</b> <small>(23 05 29 00-0324)</small>		
23 05 29 00-0366	EA			1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1/2).....	335.29	21.65
23 05 29 00-0367	EA			3/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3/4).....	340.40	22.19
23 05 29 00-0368	EA			1" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1).....	341.49	22.72
23 05 29 00-0369	EA			1-1/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/4).....	342.56	23.27
23 05 29 00-0370	EA			1-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/2).....	343.65	23.81
23 05 29 00-0371	EA			2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2).....	365.17	25.97
23 05 29 00-0372	EA			2-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-2-1/2).....	367.33	27.06
23 05 29 00-0373	EA			3" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3).....	368.69	27.73
23 05 29 00-0374	EA			4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-4).....	420.47	29.23
23 05 29 00-0375	EA			5" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-5).....	436.70	37.34
23 05 29 00-0376	EA			6" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-6).....	493.00	45.46
23 05 29 00-0377	EA			8" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-8).....	560.10	56.81
23 05 29 00-0378	EA			10" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-10).....	919.06	68.18
23 05 29 00-0379	EA			12" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-12).....	1,386.70	90.91
23 05 29 00-0380	EA			14" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-14).....	1,708.07	113.64
23 05 29 00-0381	EA			16" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-16).....	2,046.97	127.59
23 05 29 00-0382	EA			18" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-18).....	2,211.62	142.05
23 05 29 00-0383	EA			20" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-20).....	2,360.92	162.34
23 05 29 00-0384	EA			24" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-24).....	2,942.99	170.45
<b>23 05 29 00-0385</b>				<b>Pipe Alignment Guide, 2-1/2" Insulation</b> <small>(23 05 29 00-0324)</small>		
23 05 29 00-0386	EA			1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1/2).....	340.40	22.19
23 05 29 00-0387	EA			3/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3/4).....	358.68	22.72
23 05 29 00-0388	EA			1" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1).....	359.75	23.27
23 05 29 00-0389	EA			1-1/4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/4).....	360.84	23.81
23 05 29 00-0390	EA			1-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-1-1/2).....	361.92	24.35
23 05 29 00-0391	EA			2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2).....	366.25	26.51
23 05 29 00-0392	EA			2-1/2" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-2-1/2).....	368.69	27.73

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0393	EA		3" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-3).....	418.84	28.41
23 05 29 00-0394	EA		4" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-4).....	421.56	29.76
23 05 29 00-0395	EA		5" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-5).....	477.85	37.88
23 05 29 00-0396	EA		6" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-6).....	495.16	46.53
23 05 29 00-0397			8" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-8).....	899.04	58.17
23 05 29 00-0398	EA		10" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-10).....	1,344.49	69.81
23 05 29 00-0399	EA		12" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-12).....	1,666.95	93.07
23 05 29 00-0400	EA		14" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-14).....	1,713.76	116.34
23 05 29 00-0401	EA		16" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-16).....	2,053.71	130.95
23 05 29 00-0402	EA		18" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-18).....	2,218.65	145.57
23 05 29 00-0403	EA		20" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-20).....	2,369.03	166.40
23 05 29 00-0404	EA		24" Diameter Pipe Alignment Guide, 2-1/2" Insulation (Cooper B-Line B3284-24).....	2,951.65	174.78

**23 05 29 00-0405 Pipe Alignment Guide, 3" Insulation (23 05 29 00-0324)**

23 05 29 00-0406	EA		1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1/2).....	358.68	22.72
23 05 29 00-0407	EA		3/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3/4).....	359.75	23.27
23 05 29 00-0408	EA		1" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1).....	360.84	23.81
23 05 29 00-0409	EA		1-1/4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/4).....	361.92	24.35
23 05 29 00-0410	EA		1-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-1-1/2).....	363.01	24.89
23 05 29 00-0411	EA		2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2).....	416.14	27.06
23 05 29 00-0412	EA		2-1/2" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-2-1/2).....	418.84	28.41
23 05 29 00-0413	EA		3" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-3).....	420.47	29.23
23 05 29 00-0414	EA		4" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-4).....	463.12	30.52
23 05 29 00-0415	EA		5" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-5).....	480.01	38.96
23 05 29 00-0416	EA		6" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-6).....	541.70	47.62
23 05 29 00-0417	EA		8" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-8).....	901.74	59.53
23 05 29 00-0418	EA		10" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-10).....	1,347.73	71.43
23 05 29 00-0419	EA		12" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-12).....	1,671.28	95.24
23 05 29 00-0420	EA		14" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-14).....	1,719.18	119.04
23 05 29 00-0421	EA		16" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-16).....	2,060.20	134.20
23 05 29 00-0422	EA		18" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-18).....	2,225.16	148.81
23 05 29 00-0423	EA		20" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-20).....	2,377.15	170.45
23 05 29 00-0424	EA		24" Diameter Pipe Alignment Guide, 3" Insulation (Cooper B-Line B3285-24).....	2,960.31	179.11

**23 05 29 00-0425 Pipe Alignment Guide, 3-1/2" Insulation (23 05 29 00-0324)**

23 05 29 00-0426	EA		1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1/2).....	359.75	23.27
23 05 29 00-0427	EA		3/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3/4).....	409.65	23.81
23 05 29 00-0428	EA		1" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1).....	410.73	24.35
23 05 29 00-0429	EA		1-1/4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/4).....	411.82	24.89
23 05 29 00-0430	EA		1-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-1-1/2).....	412.89	25.44
23 05 29 00-0431	EA		2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2).....	417.50	27.73
23 05 29 00-0432	EA		2-1/2" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-2-1/2).....	420.25	29.12
23 05 29 00-0433	EA		3" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-3).....	461.99	29.95
23 05 29 00-0434	EA		4" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-4).....	464.86	31.39
23 05 29 00-0435	EA		5" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-5).....	526.55	40.04
23 05 29 00-0436	EA		6" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-6).....	880.11	48.70
23 05 29 00-0437	EA		8" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-8).....	1,326.64	60.87
23 05 29 00-0438	EA		10" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-10).....	1,627.51	73.22
23 05 29 00-0439	EA		12" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-12).....	1,986.60	97.41
23 05 29 00-0440	EA		14" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-14).....	2,035.85	122.03
23 05 29 00-0441	EA		16" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-16).....	2,208.82	137.45
23 05 29 00-0442	EA		18" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-18).....	2,341.43	152.60
23 05 29 00-0443	EA		20" Diameter Pipe Alignment Guide, 3-1/2" Insulation (Cooper B-Line B3286-20).....	2,950.57	174.24

**23 05 29 00-0444 Pipe Alignment Guide, 4" Insulation (23 05 29 00-0324)**

23 05 29 00-0445	EA		1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1/2).....	409.65	23.81
23 05 29 00-0446	EA		3/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3/4).....	410.73	24.35
23 05 29 00-0447	EA		1" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1).....	411.82	24.89
23 05 29 00-0448	EA		1-1/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/4).....	412.89	25.44
23 05 29 00-0449	EA		1-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/2).....	413.98	25.97
23 05 29 00-0450	EA		2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2).....	458.90	28.41
23 05 29 00-0451	EA		2-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2-1/2).....	461.62	29.76
23 05 29 00-0452	EA		3" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3).....	463.46	30.68
23 05 29 00-0453	EA		4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-4).....	510.85	32.20
23 05 29 00-0454	EA		5" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-5).....	864.95	41.13
23 05 29 00-0455	EA		6" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-6).....	882.27	49.79
23 05 29 00-0456	EA		8" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-8).....	1,329.34	62.23
23 05 29 00-0457	EA		10" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-10).....	1,631.51	75.22
23 05 29 00-0458	EA		12" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-12).....	1,991.48	99.84
23 05 29 00-0459	EA		14" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-14).....	2,176.45	124.46
23 05 29 00-0460	EA		16" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-16).....	2,317.62	140.69
23 05 29 00-0461	EA		18" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-18).....	2,915.94	156.92

**23 05 29 00-0462 Sway Bracing For No Hub Pipe (23 05 29 00-0001)**

23 05 29 00-0463	EA		1-1/2" Sway Bracing.....	107.21	14.28
			<i>For Work In Restricted Working Space, Add</i>	8.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0464 EA 2" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	110.67 9.02	15.05
23 05 29 00-0465 EA 3" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	114.83 9.55	15.91
23 05 29 00-0466 EA 4" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	130.33 10.82	18.07
23 05 29 00-0467 EA 6" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	191.55 16.23	27.06
23 05 29 00-0468 EA 8" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	214.42 20.29	33.77
23 05 29 00-0469 EA 10" Sway Bracing..... <i>For Work In Restricted Working Space, Add</i>	245.74 27.06	45.13
 <b>23 05 29 00-0470 Pipe Stand With Adjustable Saddle (Cooper B-Line B3088T-18 Base, B3093 Adjustable Pipe Saddle) (23 05 29 00-0001)</b> Note: Heights listed is total for base and adjustable saddle		
23 05 29 00-0471 EA 23" to 28" High Pipe Stand With Adjustable Saddle For 1-1/4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	138.04 6.50	10.82
23 05 29 00-0472 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 1-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	141.87 7.14	11.91
23 05 29 00-0473 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	251.35 8.12	13.53
23 05 29 00-0474 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 2-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	313.68 9.09	15.16
23 05 29 00-0475 EA 24" to 29" High Pipe Stand With Adjustable Saddle For 3" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	319.23 10.07	16.77
23 05 29 00-0476 EA 25" to 29" High Pipe Stand With Adjustable Saddle For 3-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	348.84 11.36	18.93
23 05 29 00-0477 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	417.63 12.34	20.56
23 05 29 00-0478 EA 25" to 30" High Pipe Stand With Adjustable Saddle For 5" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	423.90 13.31	22.19
23 05 29 00-0479 EA 26" to 31" High Pipe Stand With Adjustable Saddle For 6" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	432.05 14.61	24.35
23 05 29 00-0480 EA 28" to 33" High Pipe Stand With Adjustable Saddle For 8" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	449.85 15.91	26.51
23 05 29 00-0481 EA 29" to 34" High Pipe Stand With Adjustable Saddle For 10" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	480.24 17.53	29.23
23 05 29 00-0482 EA 30" to 35" High Pipe Stand With Adjustable Saddle For 12" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	496.55 19.48	32.47
23 05 29 00-0483 EA 32" to 37" High Pipe Stand With Adjustable Saddle For 14" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	601.91 21.43	35.72
23 05 29 00-0484 EA 33" to 38" High Pipe Stand With Adjustable Saddle For 16" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	653.56 24.03	40.04
23 05 29 00-0485 EA 35" to 40" High Pipe Stand With Adjustable Saddle For 18" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	917.14 26.62	44.37
23 05 29 00-0486 EA 36" to 41" High Pipe Stand With Adjustable Saddle For 20" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,103.90 29.22	48.70
23 05 29 00-0487 EA 39" to 44" High Pipe Stand With Adjustable Saddle For 24" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle)..... <i>For Work In Restricted Working Space, Add</i>	1,302.27 31.82	53.03
 <b>23 05 29 00-0488 Channel Mounted Cushion Clamp (23 05 29 00-0001)</b> Note: Includes fastening into channel.		
23 05 29 00-0489 EA 1/2" Channel Mounted Cushion Clamp For 3/8" Pipe.....	13.74	4.87
23 05 29 00-0490 EA 5/8" Channel Mounted Cushion Clamp For 1/2" Pipe.....	14.47	5.41
23 05 29 00-0491 EA 7/8" Channel Mounted Cushion Clamp For 3/4" Pipe.....	15.61	5.68
23 05 29 00-0492 EA 1-1/8" Channel Mounted Cushion Clamp For 1" Pipe.....	16.79	5.95
23 05 29 00-0493 EA 1-3/8" Channel Mounted Cushion Clamp For 1-1/4" Pipe.....	18.84	6.49
23 05 29 00-0494 EA 1-5/8" Channel Mounted Cushion Clamp For 1-1/2" Pipe.....	20.57	6.76
23 05 29 00-0495 EA 2-1/8" Channel Mounted Cushion Clamp For 2" Pipe.....	26.66	7.04
23 05 29 00-0496 EA 2-5/8" Channel Mounted Cushion Clamp For 2-1/2" Pipe.....	30.70	7.58
23 05 29 00-0497 EA 3-1/8" Channel Mounted Cushion Clamp For 3" Pipe.....	38.78	8.65
23 05 29 00-0498 EA 4-1/8" Channel Mounted Cushion Clamp For 4" Pipe.....	54.26	9.74

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0499			<b>Galvanized Steel Cushion Tube Clamp</b> (23 05 29 00-0001) Note: Excludes fastening bolt and drilling if necessary.		
23 05 29 00-0500	EA		1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/8" Pipe.....	3.80	
			Note: 19/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0501	EA		1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/8" Pipe.....	3.88	
			Note: 23/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0502	EA		5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1/2" Pipe.....	3.92	
			Note: 23/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0503	EA		5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1/2" Pipe.....	4.04	
			Note: 27/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0504	EA		7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/4" Pipe.....	3.90	
			Note: 27/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0505	EA		7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/4" Pipe.....	4.12	
			Note: 31/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0506	EA		1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1" Pipe.....	3.98	
			Note: 31/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0507	EA		1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1" Pipe.....	4.25	
			Note: 1-1/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0508	EA		1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1" Pipe.....	4.26	
			Note: 1-5/32" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0509	EA		1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/4" Pipe.....	4.10	
			Note: 1-3/32" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0510	EA		1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/4" Pipe.....	4.22	
			Note: 1-7/32" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0511	EA		1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/4" Pipe.....	4.59	
			Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0512	EA		1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/2" Pipe.....	4.24	
			Note: 1-5/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0513	EA		1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/2" Pipe.....	4.47	
			Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0514	EA		1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/2" Pipe.....	4.87	
			Note: 1-13/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0515	EA		2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2" Pipe.....	4.90	
			Note: 1-7/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0516	EA		2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2" Pipe.....	5.12	
			Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0517	EA		2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2" Pipe.....	5.55	
			Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0518	EA		2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2-1/2" Pipe.....	5.68	
			Note: 1-11/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0519	EA		2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2-1/2" Pipe.....	6.33	
			Note: 1-13/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0520	EA		2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2-1/2" Pipe.....	6.37	
			Note: 1-15/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0521	EA		3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3" Pipe.....	5.81	
			Note: 1-15/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0522	EA		3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3" Pipe.....	6.33	
			Note: 2-1/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0523	EA		3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3" Pipe.....	6.64	
			Note: 2-3/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0524	EA		3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3-1/2" Pipe.....	5.98	
			Note: 2-3/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0525	EA		3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3-1/2" Pipe.....	6.29	
			Note: 2-5/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0526	EA		3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3-1/2" Pipe.....	7.50	
			Note: 2-7/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0527	EA		4" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 4" Pipe.....	5.94	
			Note: 2-7/16" Center To Center Length, 9/32" Hole Diameter For Screw		
23 05 29 00-0528	EA		4" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 4" Pipe.....	6.40	
			Note: 2-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0529	EA		4" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 4" Pipe.....	7.76	
			Note: 2-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0530			<b>Rooftop Pipe Supports</b> (23 05 29 00-0001) Note: Excludes pipe/conduit clamps and straps.		
23 05 29 00-0531			<b>Rooftop Support Base</b> (23 05 29 00-0530)		
23 05 29 00-0532	EA		4" x 6" x 4.8" Rooftop Support Base (Cooper B-Line Dura-Blok DBM).....	35.48	8.82
23 05 29 00-0533	EA		4" x 6" x 9.6" Rooftop Support Base (Cooper B-Line Dura-Blok DBP).....	49.26	11.75
23 05 29 00-0534			<b>Rooftop Support Base With 14 Gauge Galvanized Channel</b> (23 05 29 00-0530)		
23 05 29 00-0535	EA		5" x 6" x 4.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB5).....	39.92	8.82
23 05 29 00-0536	EA		5" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10).....	56.47	11.75
23 05 29 00-0537	EA		5" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB20).....	101.98	14.70
23 05 29 00-0538	EA		5" x 6" x 30.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB30).....	140.06	17.64
23 05 29 00-0539	EA		5" x 6" x 41.4" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB40).....	192.70	20.58
23 05 29 00-0540	EA		5" x 6" x 52" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB48).....	203.83	23.52
23 05 29 00-0541			<b>Rooftop Support Base With 12 Gauge Galvanized Channel</b> (23 05 29 00-0530)		
23 05 29 00-0542	EA		6-7/16" x 6" x 9.6" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB610).....	68.27	11.75



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0543	EA			6-7/16" x 6" x 20.2" Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB620) .....	107.24	14.70
23 05 29 00-0544	EA			6-7/16" x 6" x 30.8" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB630) .....	142.17	17.64
23 05 29 00-0545	EA			6-7/16" x 6" x 41.4" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB640) .....	192.82	20.58
23 05 29 00-0546	EA			6-7/16" x 6" x 52" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB648) .....	215.12	17.64
<b>23 05 29 00-0547</b>				<b>Rooftop Bridge Support Base With 12 Gauge Galvanized Channel</b> <small>(23 05 29 00-0530)</small>		
23 05 29 00-0548	EA			5-5/8" x 6" x 28" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-28) .....	113.66	17.64
23 05 29 00-0549	EA			5-5/8" x 6" x 36" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-36) .....	129.61	20.58
23 05 29 00-0550	EA			5-5/8" x 6" x 42" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-42) .....	135.46	23.52
23 05 29 00-0551	EA			5-5/8" x 6" x 50" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-50) .....	148.50	26.45
23 05 29 00-0552	EA			5-5/8" x 6" x 60" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-60) .....	188.59	29.40
<b>23 05 29 00-0553</b>				<b>Rooftop Pipe Support Base And Rod</b> <small>(23 05 29 00-0530)</small>		
23 05 29 00-0554	EA			9.69" To 11.19" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1/2CT) .....	82.23	11.75
23 05 29 00-0555	EA			9.84" To 11.34" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-3/4CT) .....	82.23	11.75
23 05 29 00-0556	EA			9.95" To 11.45" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1CT) .....	82.67	11.75
23 05 29 00-0557	EA			10.13" To 11.63" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/4CT) .....	89.00	14.70
23 05 29 00-0558	EA			10.28" To 11.78" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/2CT) .....	85.78	14.70
23 05 29 00-0559	EA			10.53" To 12.03" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-2CT) .....	89.92	14.70
<b>23 05 29 00-0560</b>				<b>Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly</b> <small>(23 05 29 00-0530)</small>		
23 05 29 00-0561	EA			7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR2-3 1/2) .....	103.36	11.75
23 05 29 00-0562	EA			7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR4-6) .....	114.95	11.75
23 05 29 00-0563	EA			8.34" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR8-10) .....	150.45	14.70
23 05 29 00-0564	EA			9.38" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR12-14) .....	197.81	14.70
23 05 29 00-0565	EA			9.78" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR16-20) .....	268.15	14.70
<b>23 05 29 00-0566</b>				<b>Rooftop Support Base And Adjustable Height Roller Assembly</b> <small>(23 05 29 00-0530)</small>		
				Note: Includes base, two zinc all threaded rod risers and pipe roller.		
23 05 29 00-0567	EA			Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Roller Assembly (Cooper B-Line Dura-Blok DBR10-12) .....	129.71	17.64
<b>23 05 29 00-0568</b>				<b>Rooftop Support Base And Adjustable Height Channel Assembly</b> <small>(23 05 29 00-0530)</small>		
				Note: Includes base, two zinc all threaded rod and 14 gauge slotted channel.		
23 05 29 00-0569	EA			Up To 8" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-8) .....	85.99	14.70
23 05 29 00-0570	EA			Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-12) .....	116.47	17.64
23 05 29 00-0571	EA			Up To 16" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-16) .....	130.15	20.58
<b>23 05 29 00-0572</b>				<b>Rooftop Support Bases With Channel Support And Risers Assembly</b> <small>(23 05 29 00-0530)</small>		
				Note: Includes two support bases, two 12 gauge galvanized channel risers and one 12 gauge galvanized channel support. Dimensions are "overall" (height x width x length).		
23 05 29 00-0573	EA			23" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2318DS) .....	306.40	23.52
23 05 29 00-0574	EA			29" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2918DS) .....	309.73	23.52
23 05 29 00-0575	EA			41" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4118DS) .....	321.43	23.52
23 05 29 00-0576	EA			53" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5318DS) .....	348.27	23.52
23 05 29 00-0577	EA			23" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2324DS) .....	300.45	23.52
23 05 29 00-0578	EA			29" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2924DS) .....	311.64	23.52
23 05 29 00-0579	EA			41" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4124DS) .....	323.33	23.52
23 05 29 00-0580	EA			53" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5324DS) .....	350.16	23.52
23 05 29 00-0581	EA			23" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2336DS) .....	313.74	23.52
23 05 29 00-0582	EA			29" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2936DS) .....	317.65	23.52

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0583 EA 41" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4136DS).....	329.12	23.52
23 05 29 00-0584 EA 53" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5336DS).....	356.07	23.52
23 05 29 00-0585 EA 23" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2348DS).....	327.33	23.52
23 05 29 00-0586 EA 29" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2948DS).....	330.89	23.52
23 05 29 00-0587 EA 41" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4148DS).....	342.36	23.52
23 05 29 00-0588 EA 53" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5348DS).....	369.32	23.52
<b>23 05 29 00-0589 Threaded Rod, Accessories And Attachments (23 05 29)</b>		
<b>23 05 29 00-0590 Threaded Rod And Rod Accessories (23 05 29 00-0589)</b>		
<b>23 05 29 00-0591 Threaded Rod (23 05 29 00-0590)</b> Note: Fully threaded.		
23 05 29 00-0592 LF 3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	2.89	0.74
For Galvanized, Add	0.57	
For Zinc Plated, Add	0.40	
For Work In Restricted Working Space, Add	0.44	
23 05 29 00-0593 LF 1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	3.82	0.78
For Galvanized, Add	0.90	
For Zinc Plated, Add	0.64	
For Work In Restricted Working Space, Add	0.47	
23 05 29 00-0594 LF 5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	5.12	0.81
For Galvanized, Add	1.40	
For Zinc Plated, Add	0.99	
For Work In Restricted Working Space, Add	0.49	
23 05 29 00-0595 LF 3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	8.02	0.83
For Galvanized, Add	2.54	
For Zinc Plated, Add	1.81	
For Work In Restricted Working Space, Add	0.50	
23 05 29 00-0596 LF 7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	8.71	0.86
For Galvanized, Add	2.79	
For Zinc Plated, Add	1.99	
For Work In Restricted Working Space, Add	0.52	
23 05 29 00-0597 LF 1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	11.75	0.97
For Galvanized, Add	3.92	
For Zinc Plated, Add	2.79	
For Work In Restricted Working Space, Add	0.59	
23 05 29 00-0598 LF 1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod .....	14.53	1.09
For Galvanized, Add	4.94	
For Zinc Plated, Add	3.52	
For Work In Restricted Working Space, Add	0.65	
<b>23 05 29 00-0599 Rod Couplings (23 05 29 00-0590)</b>		
23 05 29 00-0600 EA 3/8" Diameter, Threaded Rod Coupling Nut.....	8.63	
For Work In Restricted Working Space, Add	2.17	
23 05 29 00-0601 EA 1/2" Diameter, Threaded Rod Coupling Nut.....	9.78	
For Work In Restricted Working Space, Add	2.40	
23 05 29 00-0602 EA 5/8" Diameter, Threaded Rod Coupling Nut.....	12.15	
For Work In Restricted Working Space, Add	2.71	
23 05 29 00-0603 EA 3/4" Diameter, Threaded Rod Coupling Nut.....	14.73	
For Work In Restricted Working Space, Add	2.95	
23 05 29 00-0604 EA 7/8" Diameter, Threaded Rod Coupling Nut.....	21.35	
For Work In Restricted Working Space, Add	3.25	
23 05 29 00-0605 EA 1" Diameter, Threaded Rod Coupling Nut.....	25.31	
For Work In Restricted Working Space, Add	3.82	
23 05 29 00-0606 EA 1-1/8" Diameter, Threaded Rod Coupling Nut .....	47.74	
For Work In Restricted Working Space, Add	4.33	
<b>23 05 29 00-0607 Flat Washers (23 05 29 00-0590)</b> Note: Zinc plated.		
23 05 29 00-0608 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	0.61	0.23
For Galvanized, Add	0.03	
For Work In Restricted Working Space, Add	0.15	
23 05 29 00-0609 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	0.82	0.23
For Galvanized, Add	0.07	
For Work In Restricted Working Space, Add	0.17	
23 05 29 00-0610 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	1.16	0.35
For Galvanized, Add	0.13	
For Work In Restricted Working Space, Add	0.20	
23 05 29 00-0611 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	1.58	0.35
For Galvanized, Add	0.19	
For Work In Restricted Working Space, Add	0.25	
23 05 29 00-0612 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer .....	1.86	0.47
For Galvanized, Add	0.22	
For Work In Restricted Working Space, Add	0.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0613 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.17	0.47
<i>For Galvanized, Add</i>	0.27	
<i>For Work In Restricted Working Space, Add</i>	0.33	
23 05 29 00-0614 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer.....	2.45	0.59
<i>For Galvanized, Add</i>	0.31	
<i>For Work In Restricted Working Space, Add</i>	0.37	
<b>23 05 29 00-0615 Hex Nuts</b> <small>(23 05 29 00-0590)</small>		
Note: Grade 2 and zinc plated.		
23 05 29 00-0616 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.76	0.29
<i>For Galvanized, Add</i>	0.03	
<i>For Work In Restricted Working Space, Add</i>	0.20	
23 05 29 00-0617 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	0.96	0.29
<i>For Galvanized, Add</i>	0.06	
<i>For Work In Restricted Working Space, Add</i>	0.22	
23 05 29 00-0618 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.29	0.29
<i>For Galvanized, Add</i>	0.13	
<i>For Work In Restricted Working Space, Add</i>	0.23	
23 05 29 00-0619 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	1.50	0.59
<i>For Galvanized, Add</i>	0.17	
<i>For Work In Restricted Working Space, Add</i>	0.24	
23 05 29 00-0620 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.16	0.59
<i>For Galvanized, Add</i>	0.33	
<i>For Work In Restricted Working Space, Add</i>	0.26	
23 05 29 00-0621 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	2.75	0.59
<i>For Galvanized, Add</i>	0.44	
<i>For Work In Restricted Working Space, Add</i>	0.29	
23 05 29 00-0622 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut.....	4.43	0.59
<i>For Galvanized, Add</i>	0.84	
<i>For Work In Restricted Working Space, Add</i>	0.33	
<b>23 05 29 00-0623 Turnbuckle (Cooper B-Line B3202)</b> <small>(23 05 29 00-0590)</small>		
Note: Type 13.		
23 05 29 00-0624 EA 3/8" Turnbuckle (Cooper B-Line B3202).....	28.10	5.88
<i>For Work In Restricted Working Space, Add</i>	3.53	
23 05 29 00-0625 EA 1/2" Turnbuckle (Cooper B-Line B3202).....	33.39	6.47
<i>For Work In Restricted Working Space, Add</i>	3.92	
23 05 29 00-0626 EA 5/8" Turnbuckle (Cooper B-Line B3202).....	35.95	7.05
<i>For Work In Restricted Working Space, Add</i>	4.41	
23 05 29 00-0627 EA 3/4" Turnbuckle (Cooper B-Line B3202).....	45.26	8.23
<i>For Work In Restricted Working Space, Add</i>	5.04	
23 05 29 00-0628 EA 7/8" Turnbuckle (Cooper B-Line B3202).....	58.62	8.82
<i>For Work In Restricted Working Space, Add</i>	5.88	
23 05 29 00-0629 EA 1" Turnbuckle (Cooper B-Line B3202).....	72.77	9.41
<i>For Work In Restricted Working Space, Add</i>	7.06	
23 05 29 00-0630 EA 1-1/8" Turnbuckle (Cooper B-Line B3202).....	100.99	10.58
<i>For Work In Restricted Working Space, Add</i>	8.82	
<b>23 05 29 00-0631 Swivel Turnbuckle (Cooper B-Line B3224)</b> <small>(23 05 29 00-0590)</small>		
Note: Type 15.		
23 05 29 00-0632 EA 3/8" Swivel Turnbuckle (Cooper B-Line B3224).....	17.77	5.88
<i>For Work In Restricted Working Space, Add</i>	3.53	
23 05 29 00-0633 EA 1/2" Swivel Turnbuckle (Cooper B-Line B3224).....	20.57	6.58
<i>For Work In Restricted Working Space, Add</i>	3.92	
23 05 29 00-0634 EA 5/8" Swivel Turnbuckle (Cooper B-Line B3224).....	27.30	7.30
<i>For Work In Restricted Working Space, Add</i>	4.41	
23 05 29 00-0635 EA 3/4" Swivel Turnbuckle (Cooper B-Line B3224).....	33.00	8.35
<i>For Work In Restricted Working Space, Add</i>	5.04	
<b>23 05 29 00-0636 Forged Steel Clevis (Cooper B-Line B3201)</b> <small>(23 05 29 00-0590)</small>		
Note: Type 14.		
23 05 29 00-0637 EA 3-9/16" Forged Steel Clevis With Pin, 3/8" To 5/8" Rod Size (Cooper B-Line B3201).....	93.80	10.82
<i>For Work In Restricted Working Space, Add</i>	6.50	
23 05 29 00-0638 EA 4" Forged Steel Clevis With Pin, 3/4" To 7/8" Rod Size (Cooper B-Line B3201).....	138.45	11.37
<i>For Work In Restricted Working Space, Add</i>	6.83	
23 05 29 00-0639 EA 5-1/16" Forged Steel Clevis With Pin, 1" Rod Size (Cooper B-Line B3201).....	149.75	11.91
<i>For Work In Restricted Working Space, Add</i>	7.22	
23 05 29 00-0640 EA 5-1/16" Forged Steel Clevis With Pin, 1-1/8" Rod Size (Cooper B-Line B3201).....	155.94	12.98
<i>For Work In Restricted Working Space, Add</i>	7.64	
23 05 29 00-0641 EA 5-1/16" Forged Steel Clevis With Pin, 1-1/4" Rod Size (Cooper B-Line B3201).....	164.10	14.61
<i>For Work In Restricted Working Space, Add</i>	8.66	
23 05 29 00-0642 EA 6" Forged Steel Clevis With Pin, 1-1/2" Rod Size (Cooper B-Line B3201).....	273.54	18.93
<i>For Work In Restricted Working Space, Add</i>	11.36	
23 05 29 00-0643 EA 5-15/16" Forged Steel Clevis With Pin, 1-3/4" Rod Size (Cooper B-Line B3201).....	296.87	21.65
<i>For Work In Restricted Working Space, Add</i>	12.99	
23 05 29 00-0644 EA 7" Forged Steel Clevis With Pin, 2" Rod Size (Cooper B-Line B3201).....	349.95	27.06
<i>For Work In Restricted Working Space, Add</i>	16.23	
<b>23 05 29 00-0645 Welded Eye Rod (Cooper B-Line B3211)</b> <small>(23 05 29 00-0590)</small>		

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0646	EA		3/8" Diameter x 8" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	27.95 3.82	6.35
23 05 29 00-0647	EA		3/8" Diameter x 10" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	28.84 3.89	6.47
23 05 29 00-0648	EA		3/8" Diameter x 12" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	29.74 3.97	6.58
23 05 29 00-0649	EA		3/8" Diameter x 14" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	29.98 4.04	6.70
23 05 29 00-0650	EA		3/8" Diameter x 18" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	31.79 4.19	6.94
23 05 29 00-0651	EA		3/8" Diameter x 24" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	33.86 4.41	7.40
23 05 29 00-0652	EA		3/8" Diameter x 30" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	35.25 4.63	7.76
23 05 29 00-0653	EA		3/8" Diameter x 36" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	37.97 4.85	8.12
23 05 29 00-0654	EA		3/8" Diameter x 42" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	40.02 5.07	8.47
23 05 29 00-0655	EA		3/8" Diameter x 48" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	42.09 5.29	8.82
23 05 29 00-0656	EA		1/2" Diameter x 8" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	37.21 4.23	7.05
23 05 29 00-0657	EA		1/2" Diameter x 10" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	38.12 4.31	7.18
23 05 29 00-0658	EA		1/2" Diameter x 12" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	39.07 4.39	7.30
23 05 29 00-0659	EA		1/2" Diameter x 14" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	39.98 4.46	7.41
23 05 29 00-0660	EA		1/2" Diameter x 18" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	41.82 4.62	7.65
23 05 29 00-0661	EA		1/2" Diameter x 24" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	45.23 4.85	8.12
23 05 29 00-0662	EA		1/2" Diameter x 30" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	48.01 5.09	8.47
23 05 29 00-0663	EA		1/2" Diameter x 36" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	51.43 5.33	8.82
23 05 29 00-0664	EA		1/2" Diameter x 42" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	54.18 5.56	9.30
23 05 29 00-0665	EA		1/2" Diameter x 48" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	56.96 5.80	9.65
23 05 29 00-0666	EA		5/8" Diameter x 8" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	50.13 4.74	7.88
23 05 29 00-0667	EA		5/8" Diameter x 10" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	51.70 4.82	8.00
23 05 29 00-0668	EA		5/8" Diameter x 12" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	53.31 4.90	8.12
23 05 29 00-0669	EA		5/8" Diameter x 14" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	54.23 4.98	8.35
23 05 29 00-0670	EA		5/8" Diameter x 18" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	56.75 5.14	8.58
23 05 29 00-0671	EA		5/8" Diameter x 24" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	60.87 5.39	8.94
23 05 29 00-0672	EA		5/8" Diameter x 30" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	64.98 5.63	9.41
23 05 29 00-0673	EA		5/8" Diameter x 36" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	68.43 5.87	9.76
23 05 29 00-0674	EA		5/8" Diameter x 42" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	72.54 6.11	10.23
23 05 29 00-0675	EA		5/8" Diameter x 48" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	76.64 6.36	10.58
23 05 29 00-0676	EA		3/4" Diameter x 8" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	61.51 5.38	8.94
23 05 29 00-0677	EA		3/4" Diameter x 10" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	63.78 5.46	9.05
23 05 29 00-0678	EA		3/4" Diameter x 12" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	65.37 5.55	9.30
23 05 29 00-0679	EA		3/4" Diameter x 14" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	67.62 5.63	9.41
23 05 29 00-0680	EA		3/4" Diameter x 18" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	71.49 5.80	9.65
23 05 29 00-0681	EA		3/4" Diameter x 24" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	76.92 6.05	10.12
23 05 29 00-0682	EA		3/4" Diameter x 30" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	82.38 6.30	10.47
23 05 29 00-0683	EA		3/4" Diameter x 36" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	88.51 6.55	10.93
23 05 29 00-0684	EA		3/4" Diameter x 42" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	94.60 6.80	11.30
23 05 29 00-0685	EA		3/4" Diameter x 48" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	100.07 7.05	11.76
23 05 29 00-0686	EA		7/8" Diameter x 8" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	73.61 6.24	10.35
23 05 29 00-0687	EA		7/8" Diameter x 10" Length Shank, Welded Eye Rod ..... <i>For Work In Restricted Working Space, Add</i>	76.54 6.33	10.58





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0688 EA 7/8" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	78.82 6.42	10.70
23 05 29 00-0689 EA 7/8" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	81.09 6.50	10.82
23 05 29 00-0690 EA 7/8" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	85.64 6.68	11.18
23 05 29 00-0691 EA 7/8" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	93.10 6.94	11.53
23 05 29 00-0692 EA 7/8" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	99.91 7.20	12.00
23 05 29 00-0693 EA 7/8" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	107.37 7.46	12.47
23 05 29 00-0694 EA 7/8" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	114.19 7.72	12.82
23 05 29 00-0695 EA 7/8" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	120.99 7.98	13.30
23 05 29 00-0696 EA 1" Diameter x 8" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	92.16 7.45	12.47
23 05 29 00-0697 EA 1" Diameter x 10" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	95.14 7.55	12.58
23 05 29 00-0698 EA 1" Diameter x 12" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	98.11 7.65	12.70
23 05 29 00-0699 EA 1" Diameter x 14" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	101.07 7.74	12.93
23 05 29 00-0700 EA 1" Diameter x 18" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	106.98 7.94	13.30
23 05 29 00-0701 EA 1" Diameter x 24" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	115.90 8.24	13.76
23 05 29 00-0702 EA 1" Diameter x 30" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	124.82 8.53	14.23
23 05 29 00-0703 EA 1" Diameter x 36" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	134.34 8.82	14.70
23 05 29 00-0704 EA 1" Diameter x 42" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	143.24 9.11	15.17
23 05 29 00-0705 EA 1" Diameter x 48" Length Shank, Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	152.16 9.41	15.65
<b>23 05 29 00-0706 Welded Linked Eye Rod (Cooper B-Line B3211X)</b> <small>(23 05 29 00-0590)</small>		
23 05 29 00-0707 EA 3/8" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	58.14 5.18	8.58
23 05 29 00-0708 EA 3/8" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	59.71 5.32	8.82
23 05 29 00-0709 EA 3/8" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	61.28 5.47	9.17
23 05 29 00-0710 EA 3/8" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	62.03 5.69	9.52
23 05 29 00-0711 EA 3/8" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	64.93 5.91	9.88
23 05 29 00-0712 EA 3/8" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	68.65 6.35	10.58
23 05 29 00-0713 EA 3/8" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	71.20 6.79	11.29
23 05 29 00-0714 EA 3/8" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	75.98 7.23	12.12
23 05 29 00-0715 EA 1/2" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	75.03 5.72	9.53
23 05 29 00-0716 EA 1/2" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	76.65 5.88	9.76
23 05 29 00-0717 EA 1/2" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	78.31 6.03	10.00
23 05 29 00-0718 EA 1/2" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	80.19 6.27	10.47
23 05 29 00-0719 EA 1/2" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	83.15 6.50	10.82
23 05 29 00-0720 EA 1/2" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	89.11 6.97	11.65
23 05 29 00-0721 EA 1/2" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	93.99 7.44	12.35
23 05 29 00-0722 EA 1/2" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	99.97 7.91	13.17
23 05 29 00-0723 EA 5/8" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	100.32 6.38	10.58
23 05 29 00-0724 EA 5/8" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	103.03 6.55	10.93
23 05 29 00-0725 EA 5/8" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	105.80 6.71	11.18
23 05 29 00-0726 EA 5/8" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	107.72 6.95	11.65
23 05 29 00-0727 EA 5/8" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	111.82 7.19	12.00
23 05 29 00-0728 EA 5/8" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	118.96 7.68	12.82

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0729 EA 5/8" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	126.06 8.17	13.65
23 05 29 00-0730 EA 5/8" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	132.08 8.66	14.47
23 05 29 00-0731 EA 3/4" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	126.76 7.23	12.00
23 05 29 00-0732 EA 3/4" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	130.66 7.40	12.35
23 05 29 00-0733 EA 3/4" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	133.39 7.56	12.58
23 05 29 00-0734 EA 3/4" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	137.53 7.81	13.05
23 05 29 00-0735 EA 3/4" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	143.86 8.06	13.41
23 05 29 00-0736 EA 3/4" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	153.22 8.57	14.23
23 05 29 00-0737 EA 3/4" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	162.59 9.07	15.05
23 05 29 00-0738 EA 3/4" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	173.08 9.57	16.00
23 05 29 00-0739 EA 7/8" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	152.24 8.36	13.88
23 05 29 00-0740 EA 7/8" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	157.23 8.53	14.23
23 05 29 00-0741 EA 7/8" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	161.10 8.70	14.47
23 05 29 00-0742 EA 7/8" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	165.27 8.97	14.93
23 05 29 00-0743 EA 7/8" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	172.77 9.23	15.41
23 05 29 00-0744 EA 7/8" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	185.50 9.75	16.23
23 05 29 00-0745 EA 7/8" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	197.13 10.27	17.17
23 05 29 00-0746 EA 7/8" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	209.86 10.79	18.00
23 05 29 00-0747 EA 1" Diameter x 16" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	193.85 9.96	16.58
23 05 29 00-0748 EA 1" Diameter x 20" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	198.92 10.16	16.93
23 05 29 00-0749 EA 1" Diameter x 24" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	203.97 10.35	17.29
23 05 29 00-0750 EA 1" Diameter x 30" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	209.37 10.65	17.76
23 05 29 00-0751 EA 1" Diameter x 36" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	219.10 10.94	18.23
23 05 29 00-0752 EA 1" Diameter x 48" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	234.29 11.53	19.17
23 05 29 00-0753 EA 1" Diameter x 60" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	249.48 12.12	20.23
23 05 29 00-0754 EA 1" Diameter x 72" Length Shank, Linked Welded Eye Rod..... <i>For Work In Restricted Working Space, Add</i>	265.67 12.70	21.17
<b>23 05 29 00-0755 Attachments</b> <small>(23 05 29 00-0589)</small>		
<b>23 05 29 00-0756 Welded Beam Attachments (B-Line B-3083)</b> <small>(23 05 29 00-0755)</small> Note: Type 22.		
23 05 29 00-0757 EA 3/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	36.95 6.56	10.92
23 05 29 00-0758 EA 1/2" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	39.28 6.90	11.47
23 05 29 00-0759 EA 5/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	41.73 7.28	12.12
23 05 29 00-0760 EA 3/4" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	50.99 7.71	12.89
23 05 29 00-0761 EA 7/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	59.66 8.19	13.66
23 05 29 00-0762 EA 1" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	80.60 9.37	15.62
23 05 29 00-0763 EA 1-1/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083)..... <i>For Work In Restricted Working Space, Add</i>	109.24 9.83	16.38
<b>23 05 29 00-0764 C-Clamp Style Beam Clamps (B-Line B-3034)</b> <small>(23 05 29 00-0755)</small> Note: Type 23. Top or bottom flange mount.		
23 05 29 00-0765 EA 3/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	16.55 4.41	6.00
23 05 29 00-0766 EA 1/2" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	18.89 4.71	7.65
23 05 29 00-0767 EA 5/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	20.96 5.04	8.23
23 05 29 00-0768 EA 3/4" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	25.31 5.43	8.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0769 EA 7/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034)..... <i>For Work In Restricted Working Space, Add</i>	33.62 5.88	9.41
<b>23 05 29 00-0770 Bottom Mount I-Beam Clamps (B-Line B-3055)</b> <small>(23 05 29 00-0755)</small> Note: Type 21. For attaching threaded rod centered under beam flanges.		
23 05 29 00-0771 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055)..... <i>For Work In Restricted Working Space, Add</i>	35.81 5.88	8.23
23 05 29 00-0772 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055)..... <i>For Work In Restricted Working Space, Add</i>	49.17 6.42	10.58
23 05 29 00-0773 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055)..... <i>For Work In Restricted Working Space, Add</i>	66.96 7.06	11.76
23 05 29 00-0774 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055)..... <i>For Work In Restricted Working Space, Add</i>	79.20 7.84	12.93
23 05 29 00-0775 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055)..... <i>For Work In Restricted Working Space, Add</i>	175.91 8.82	14.11
<b>23 05 29 00-0776 Steel U-Bolts (B-Line B-3188)</b> <small>(23 05 29 00-0755)</small> Note: Type 24. Includes plate and nuts.		
23 05 29 00-0777 EA 1/2" Pipe Size, Steel U-Bolt (B-Line B-3188)..... <i>For Work In Restricted Working Space, Add</i>	13.37 3.53	2.94
23 05 29 00-0778 EA 3/4" Pipe Size, Steel U-Bolt (B-Line B-3188)..... <i>For Work In Restricted Working Space, Add</i>	14.35 3.71	3.53
23 05 29 00-0779 EA 1" Pipe Size, Steel U-Bolt (B-Line B-3188)..... <i>For Work In Restricted Working Space, Add</i>	15.31 3.92	3.53
23 05 29 00-0780 EA 1-1/4" Pipe Size, Steel U-Bolt (B-Line B-3188)..... <i>For Work In Restricted Working Space, Add</i>	16.93 4.15	3.53
23 05 29 00-0781 EA 1-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188)..... <i>For Work In Restricted Working Space, Add</i>	17.68 4.41	4.12
23 05 29 00-0782 EA 2" Pipe Size, Steel U-Bolt (B-Line B-3188)..... <i>For Work In Restricted Working Space, Add</i>	18.90 4.70	4.12
23 05 29 00-0783 EA 2-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188)..... <i>For Work In Restricted Working Space, Add</i>	24.52 5.04	4.12
23 05 29 00-0784 EA 3" Pipe Size, Steel U-Bolt (B-Line B-3188)..... <i>For Work In Restricted Working Space, Add</i>	26.83 5.43	4.70
23 05 29 00-0785 EA 4" Pipe Size, Steel U-Bolt (B-Line B-3188)..... <i>For Work In Restricted Working Space, Add</i>	31.36 5.88	5.29
<b>23 05 29 00-0786 Copper Standoff Brackets With Flange</b> <small>(23 05 29 00-0755)</small> Note: Installed in wood, concrete, concrete block or steel.		
23 05 29 00-0787 EA Clamp Size 1/2", Copper Standoff Brackets With Flange..... <i>For Work In Restricted Working Space, Add</i>	35.48 10.08	16.82
23 05 29 00-0788 EA Clamp Size 3/4", Copper Standoff Brackets With Flange..... <i>For Work In Restricted Working Space, Add</i>	35.60 10.08	16.82
23 05 29 00-0789 EA Clamp Size 1", Copper Standoff Brackets With Flange..... <i>For Work In Restricted Working Space, Add</i>	35.71 10.08	16.82
23 05 29 00-0790 EA Clamp Size 1 1/4", Copper Standoff Brackets With Flange..... <i>For Work In Restricted Working Space, Add</i>	37.98 10.70	17.88
23 05 29 00-0791 EA Clamp Size 1 1/2", Copper Standoff Brackets With Flange..... <i>For Work In Restricted Working Space, Add</i>	38.21 10.70	17.88
<b>23 05 29 00-0792 Malleable Iron Eye Sockets (B-Line B-3222)</b> <small>(23 05 29 00-0755)</small> Note: Type 16.		
23 05 29 00-0793 EA 3/8" Rod Size, Malleable Iron Eye Socket..... <i>For Work In Restricted Working Space, Add</i>	7.65 1.07	1.77
23 05 29 00-0794 EA 1/2" Rod Size, Malleable Iron Eye Socket..... <i>For Work In Restricted Working Space, Add</i>	9.83 1.41	2.35
23 05 29 00-0795 EA 5/8" Rod Size, Malleable Iron Eye Socket..... <i>For Work In Restricted Working Space, Add</i>	15.28 1.43	2.35
23 05 29 00-0796 EA 3/4" Rod Size, Malleable Iron Eye Socket..... <i>For Work In Restricted Working Space, Add</i>	20.57 1.41	2.35
23 05 29 00-0797 EA 7/8" Rod Size, Malleable Iron Eye Socket..... <i>For Work In Restricted Working Space, Add</i>	22.60 1.76	2.94
<b>23 05 29 00-0798 Steel Weldless Eye Nuts (B-Line B-3200)</b> <small>(23 05 29 00-0755)</small> Note: Type 17.		
23 05 29 00-0799 EA 3/8" Rod Size, Steel Weldless Eye Nut..... <i>For Work In Restricted Working Space, Add</i>	21.02 1.07	1.77
23 05 29 00-0800 EA 1/2" Rod Size, Steel Weldless Eye Nut..... <i>For Work In Restricted Working Space, Add</i>	22.15 1.41	2.35
23 05 29 00-0801 EA 5/8" Rod Size, Steel Weldless Eye Nut..... <i>For Work In Restricted Working Space, Add</i>	22.20 1.43	2.35
23 05 29 00-0802 EA 3/4" Rod Size, Steel Weldless Eye Nut..... <i>For Work In Restricted Working Space, Add</i>	22.15 1.41	2.35
23 05 29 00-0803 EA 7/8" Rod Size, Steel Weldless Eye Nut..... <i>For Work In Restricted Working Space, Add</i>	41.32 1.59	2.58
23 05 29 00-0804 EA 1" Rod Size, Steel Weldless Eye Nut..... <i>For Work In Restricted Working Space, Add</i>	41.90 1.76	2.94

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 29 00-0805 Top Mount I-Beam Clamps (B-Line B-3042)</b> (23 05 29 00-0755) Note: For attaching threaded rod to either side of an I-beam.		
23 05 29 00-0806 EA 3/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp .....18.33	18.33	5.46
For Work In Restricted Working Space, Add	3.28	
23 05 29 00-0807 EA 1/2" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp .....21.53	21.53	6.01
For Work In Restricted Working Space, Add	3.62	
23 05 29 00-0808 EA 5/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp .....25.44	25.44	6.55
For Work In Restricted Working Space, Add	3.97	
23 05 29 00-0809 EA 3/4" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp .....32.90	32.90	7.10
For Work In Restricted Working Space, Add	4.18	
23 05 29 00-0810 EA 7/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp .....48.10	48.10	8.20
For Work In Restricted Working Space, Add	4.91	
23 05 29 00-0811 EA 3/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp .....19.02	19.02	5.46
For Work In Restricted Working Space, Add	3.28	
23 05 29 00-0812 EA 1/2" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp .....22.50	22.50	6.01
For Work In Restricted Working Space, Add	3.62	
23 05 29 00-0813 EA 5/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp .....25.44	25.44	6.55
For Work In Restricted Working Space, Add	3.97	
23 05 29 00-0814 EA 3/4" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp .....35.46	35.46	7.10
For Work In Restricted Working Space, Add	4.18	
23 05 29 00-0815 EA 7/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp .....52.47	52.47	8.20
For Work In Restricted Working Space, Add	4.91	
23 05 29 00-0816 EA 3/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp .....20.62	20.62	5.46
For Work In Restricted Working Space, Add	3.28	
23 05 29 00-0817 EA 1/2" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp .....24.30	24.30	6.01
For Work In Restricted Working Space, Add	3.62	
23 05 29 00-0818 EA 5/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp .....29.65	29.65	6.55
For Work In Restricted Working Space, Add	3.97	
23 05 29 00-0819 EA 3/4" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp .....40.24	40.24	7.10
For Work In Restricted Working Space, Add	4.18	
23 05 29 00-0820 EA 7/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp .....61.82	61.82	8.20
For Work In Restricted Working Space, Add	4.91	
<b>23 05 29 00-0821 Side Beam Brackets (B-Line B-3062)</b> (23 05 29 00-0755) Note: Type 34.		
23 05 29 00-0822 EA 3/8" Rod Size, Side Beam Bracket .....17.68	17.68	7.65
For Work In Restricted Working Space, Add	4.41	
23 05 29 00-0823 EA 1/2" Rod Size, Side Beam Bracket .....20.12	20.12	7.65
For Work In Restricted Working Space, Add	4.71	
23 05 29 00-0824 EA 5/8" Rod Size, Side Beam Bracket .....24.35	24.35	8.23
For Work In Restricted Working Space, Add	5.04	
23 05 29 00-0825 EA 3/4" Rod Size, Side Beam Bracket .....37.64	37.64	8.82
For Work In Restricted Working Space, Add	5.43	
23 05 29 00-0826 EA 7/8" Rod Size, Side Beam Bracket .....43.30	43.30	10.00
For Work In Restricted Working Space, Add	5.88	
<b>23 05 29 00-0827 Hex Lag Bolts</b> (23 05 29 00-0755) Note: Also known as coach screws.		
23 05 29 00-0828 EA 3/8" x 3-1/2" Long, Hex Lag Bolt .....2.93	2.93	
For Work In Restricted Working Space, Add	0.74	
23 05 29 00-0829 EA 3/8" x 4" Long, Hex Lag Bolt .....3.18	3.18	
For Work In Restricted Working Space, Add	0.76	
23 05 29 00-0830 EA 3/8" x 6" Long, Hex Lag Bolt .....3.57	3.57	
For Work In Restricted Working Space, Add	0.79	
23 05 29 00-0831 EA 3/8" x 8" Long, Hex Lag Bolt .....4.27	4.27	
For Work In Restricted Working Space, Add	0.82	
23 05 29 00-0832 EA 3/8" x 10" Long, Hex Lag Bolt .....4.54	4.54	
For Work In Restricted Working Space, Add	0.85	
23 05 29 00-0833 EA 3/8" x 12" Long, Hex Lag Bolt .....4.86	4.86	
For Work In Restricted Working Space, Add	0.88	
23 05 29 00-0834 EA 1/2" x 3-1/2" Long, Hex Lag Bolt .....3.86	3.86	
For Work In Restricted Working Space, Add	0.88	
23 05 29 00-0835 EA 1/2" x 4" Long, Hex Lag Bolt .....4.33	4.33	
For Work In Restricted Working Space, Add	0.92	
23 05 29 00-0836 EA 1/2" x 6" Long, Hex Lag Bolt .....5.00	5.00	
For Work In Restricted Working Space, Add	0.96	
23 05 29 00-0837 EA 1/2" x 8" Long, Hex Lag Bolt .....5.78	5.78	
For Work In Restricted Working Space, Add	1.00	
23 05 29 00-0838 EA 1/2" x 10" Long, Hex Lag Bolt .....6.78	6.78	
For Work In Restricted Working Space, Add	1.05	
23 05 29 00-0839 EA 1/2" x 12" Long, Hex Lag Bolt .....7.27	7.27	
For Work In Restricted Working Space, Add	1.10	
23 05 29 00-0840 EA 5/8" x 4" Long, Hex Lag Bolt .....5.06	5.06	
For Work In Restricted Working Space, Add	0.98	
23 05 29 00-0841 EA 3/4" x 5" Long, Hex Lag Bolt .....5.75	5.75	
For Work In Restricted Working Space, Add	1.00	
<b>23 05 29 00-0842 Shields And Saddles</b> (23 05 29)		
<b>23 05 29 00-0843 Insulation Protection Shield</b> (23 05 29 00-0842) Note: Type 40.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				<b>23 05 29 00-0844 Insulation Protection Shield (Cooper B-Line B3151) (23 05 29 00-0843)</b>		
				Note: Type 40.		
				23 05 29 00-0845 EA 1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length ..... 16.20		2.82
				<i>For Work In Restricted Working Space, Add</i> ..... 2.82		
				23 05 29 00-0846 EA 2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length ..... 16.44		2.85
				<i>For Work In Restricted Working Space, Add</i> ..... 2.86		
				23 05 29 00-0847 EA 2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length ..... 16.84		2.89
				<i>For Work In Restricted Working Space, Add</i> ..... 2.90		
				23 05 29 00-0848 EA 3" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length ..... 17.60		2.92
				<i>For Work In Restricted Working Space, Add</i> ..... 2.93		
				23 05 29 00-0849 EA 4" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length ..... 19.44		2.99
				<i>For Work In Restricted Working Space, Add</i> ..... 3.00		
				23 05 29 00-0850 EA 6" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length ..... 23.63		3.07
				<i>For Work In Restricted Working Space, Add</i> ..... 3.07		
				23 05 29 00-0851 EA 8" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length ..... 27.42		3.14
				<i>For Work In Restricted Working Space, Add</i> ..... 3.14		
				23 05 29 00-0852 EA 10" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length ..... 33.41		3.22
				<i>For Work In Restricted Working Space, Add</i> ..... 3.21		
				23 05 29 00-0853 EA 12" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length ..... 42.77		3.25
				<i>For Work In Restricted Working Space, Add</i> ..... 3.25		
				23 05 29 00-0854 EA 14" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length ..... 46.54		3.29
				<i>For Work In Restricted Working Space, Add</i> ..... 3.28		
				23 05 29 00-0855 EA 16" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length ..... 63.88		3.32
				<i>For Work In Restricted Working Space, Add</i> ..... 3.32		
				23 05 29 00-0856 EA 18" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length ..... 71.72		3.36
				<i>For Work In Restricted Working Space, Add</i> ..... 3.35		
				23 05 29 00-0857 EA 20" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length ..... 132.60		3.39
				<i>For Work In Restricted Working Space, Add</i> ..... 3.39		
				23 05 29 00-0858 EA 24" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length ..... 144.09		3.46
				<i>For Work In Restricted Working Space, Add</i> ..... 3.46		
				23 05 29 00-0859 EA 30" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length ..... 174.04		3.53
				<i>For Work In Restricted Working Space, Add</i> ..... 3.53		
				<b>23 05 29 00-0860 Insulation Protection Shield (Cooper B-Line B3154) (23 05 29 00-0843)</b>		
				Note: Type 40.		
				23 05 29 00-0861 EA 1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length ..... 14.33		2.82
				<i>For Work In Restricted Working Space, Add</i> ..... 2.82		
				23 05 29 00-0862 EA 2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length ..... 14.54		2.85
				<i>For Work In Restricted Working Space, Add</i> ..... 2.86		
				23 05 29 00-0863 EA 2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length ..... 14.86		2.89
				<i>For Work In Restricted Working Space, Add</i> ..... 2.90		
				23 05 29 00-0864 EA 3" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length ..... 15.45		2.92
				<i>For Work In Restricted Working Space, Add</i> ..... 2.93		
				23 05 29 00-0865 EA 4" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length ..... 16.85		2.99
				<i>For Work In Restricted Working Space, Add</i> ..... 3.00		
				23 05 29 00-0866 EA 6" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length ..... 19.95		3.07
				<i>For Work In Restricted Working Space, Add</i> ..... 3.07		
				23 05 29 00-0867 EA 8" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length ..... 21.42		3.14
				<i>For Work In Restricted Working Space, Add</i> ..... 3.14		
				23 05 29 00-0868 EA 10" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length ..... 27.17		3.22
				<i>For Work In Restricted Working Space, Add</i> ..... 3.21		
				23 05 29 00-0869 EA 12" Outside Diameter, 14 Gauge Insulation Protection Shield, 12" Length ..... 32.51		3.25
				<i>For Work In Restricted Working Space, Add</i> ..... 3.25		
				<b>23 05 29 00-0870 Pipe Covering Protection Saddle (23 05 29 00-0842)</b>		
				Note: Type 39, sizes are pipe sizes.		
				<b>23 05 29 00-0871 Saddle, For 1" Insulation (Cooper B-Line B3160) (23 05 29 00-0870)</b>		
				Note: Type 39.		
				23 05 29 00-0872 EA 3/4" Pipe Saddle, Type 39 (For 1" Insulation) ..... 24.75		3.87
				<i>For Work In Restricted Working Space, Add</i> ..... 3.87		
				23 05 29 00-0873 EA 1" Pipe Saddle, Type 39 (For 1" Insulation) ..... 24.86		3.90
				<i>For Work In Restricted Working Space, Add</i> ..... 3.90		
				23 05 29 00-0874 EA 1-1/4" Pipe Saddle, Type 39 (For 1" Insulation) ..... 24.97		3.94
				<i>For Work In Restricted Working Space, Add</i> ..... 3.93		
				23 05 29 00-0875 EA 1-1/2" Pipe Saddle, Type 39 (For 1" Insulation) ..... 26.20		4.00
				<i>For Work In Restricted Working Space, Add</i> ..... 4.00		
				23 05 29 00-0876 EA 2" Pipe Saddle, Type 39 (For 1" Insulation) ..... 26.31		4.03
				<i>For Work In Restricted Working Space, Add</i> ..... 4.03		
				23 05 29 00-0877 EA 2-1/2" Pipe Saddle, Type 39 (For 1" Insulation) ..... 27.17		4.10
				<i>For Work In Restricted Working Space, Add</i> ..... 4.10		
				23 05 29 00-0878 EA 3" Pipe Saddle, Type 39 (For 1" Insulation) ..... 30.19		4.16
				<i>For Work In Restricted Working Space, Add</i> ..... 4.16		
				23 05 29 00-0879 EA 4" Pipe Saddle, Type 39 (For 1" Insulation) ..... 33.86		4.23
				<i>For Work In Restricted Working Space, Add</i> ..... 4.23		
				23 05 29 00-0880 EA 6" Pipe Saddle, Type 39 (For 1" Insulation) ..... 38.05		4.36
				<i>For Work In Restricted Working Space, Add</i> ..... 4.36		
				23 05 29 00-0881 EA 8" Pipe Saddle, Type 39 (For 1" Insulation) ..... 46.27		4.52
				<i>For Work In Restricted Working Space, Add</i> ..... 4.52		
				23 05 29 00-0882 EA 10" Pipe Saddle, Type 39 (For 1" Insulation) ..... 51.69		4.59
				<i>For Work In Restricted Working Space, Add</i> ..... 4.59		

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0883 EA 12" Pipe Saddle, Type 39 (For 1" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	61.22 4.69	4.59
23 05 29 00-0884 EA 14" Pipe Saddle, Type 39 (For 1" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	66.82 4.75	4.75
<b>23 05 29 00-0885 Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) (23 05 29 00-0870)</b> Note: Type 39.		
23 05 29 00-0886 EA 3/4" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	27.91 3.87	3.87
23 05 29 00-0887 EA 1" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	28.02 3.90	3.90
23 05 29 00-0888 EA 1-1/4" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	28.13 3.93	3.94
23 05 29 00-0889 EA 1-1/2" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	29.14 4.00	4.00
23 05 29 00-0890 EA 2" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	31.45 4.03	4.03
23 05 29 00-0891 EA 2-1/2" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	33.86 4.10	4.10
23 05 29 00-0892 EA 3" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	34.43 4.16	4.16
23 05 29 00-0893 EA 4" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	39.07 4.23	4.16
23 05 29 00-0894 EA 6" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	43.95 4.36	4.36
23 05 29 00-0895 EA 8" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	52.06 4.52	4.52
23 05 29 00-0896 EA 10" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	58.53 4.59	4.59
23 05 29 00-0897 EA 12" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	69.66 4.69	4.69
23 05 29 00-0898 EA 14" Pipe Saddle, Type 39 (For 1-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	76.29 4.75	4.75
<b>23 05 29 00-0899 Saddle, For 2" Insulation (Cooper B-Line B3162) (23 05 29 00-0870)</b> Note: Type 39.		
23 05 29 00-0900 EA 3/4" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	29.86 4.06	4.07
23 05 29 00-0901 EA 1" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	29.98 4.10	4.10
23 05 29 00-0902 EA 1-1/4" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	31.57 4.13	4.13
23 05 29 00-0903 EA 1-1/2" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	32.52 4.19	4.20
23 05 29 00-0904 EA 2" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	33.37 4.23	4.23
23 05 29 00-0905 EA 2-1/2" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	33.60 4.30	4.30
23 05 29 00-0906 EA 3" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	35.50 4.36	4.37
23 05 29 00-0907 EA 4" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	37.42 4.43	4.43
23 05 29 00-0908 EA 6" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	47.74 4.59	4.58
23 05 29 00-0909 EA 8" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	54.13 4.75	4.75
23 05 29 00-0910 EA 10" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	56.84 4.82	4.82
23 05 29 00-0911 EA 12" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	76.74 4.91	4.92
23 05 29 00-0912 EA 14" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	85.01 4.98	4.99
23 05 29 00-0913 EA 16" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	93.49 5.11	5.11
23 05 29 00-0914 EA 18" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	101.96 5.24	5.25
23 05 29 00-0915 EA 20" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	111.84 5.38	5.38
23 05 29 00-0916 EA 24" Pipe Saddle, Type 39 (For 2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	128.10 5.51	5.51
<b>23 05 29 00-0917 Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) (23 05 29 00-0870)</b> Note: Type 39.		
23 05 29 00-0918 EA 1-1/4" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	33.47 4.23	4.23
23 05 29 00-0919 EA 1-1/2" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	35.36 4.30	4.29
23 05 29 00-0920 EA 2" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	36.29 4.33	4.34
23 05 29 00-0921 EA 2-1/2" Pipe Saddle, Type 39 (For 2-1/2" Insulation)..... <i>For Work In Restricted Working Space, Add</i>	37.34 4.39	4.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0922 EA 3" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	37.66	4.48
<i>For Work In Restricted Working Space, Add</i>	4.49	
23 05 29 00-0923 EA 4" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	43.83	4.55
<i>For Work In Restricted Working Space, Add</i>	4.56	
23 05 29 00-0924 EA 6" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	50.21	4.69
<i>For Work In Restricted Working Space, Add</i>	4.69	
23 05 29 00-0925 EA 8" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	58.53	4.86
<i>For Work In Restricted Working Space, Add</i>	4.85	
23 05 29 00-0926 EA 10" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	62.76	4.94
<i>For Work In Restricted Working Space, Add</i>	4.95	
23 05 29 00-0927 EA 12" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	78.73	5.03
<i>For Work In Restricted Working Space, Add</i>	5.05	
23 05 29 00-0928 EA 14" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	93.56	5.11
<i>For Work In Restricted Working Space, Add</i>	5.11	
23 05 29 00-0929 EA 16" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	108.59	5.24
<i>For Work In Restricted Working Space, Add</i>	5.24	
23 05 29 00-0930 EA 18" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	115.38	5.37
<i>For Work In Restricted Working Space, Add</i>	5.38	
23 05 29 00-0931 EA 20" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	122.93	5.51
<i>For Work In Restricted Working Space, Add</i>	5.51	
23 05 29 00-0932 EA 24" Pipe Saddle, Type 39 (For 2-1/2" Insulation).....	130.48	5.64
<i>For Work In Restricted Working Space, Add</i>	5.64	
<b>23 05 29 00-0933 Saddle, For 3" Insulation (Cooper B-Line B3164)</b> <small>(23 05 29 00-0870)</small>		
Note: Type 39.		
23 05 29 00-0934 EA 2" Pipe Saddle, Type 39 (For 3" Insulation).....	37.54	4.43
<i>For Work In Restricted Working Space, Add</i>	4.43	
23 05 29 00-0935 EA 2-1/2" Pipe Saddle, Type 39 (For 3" Insulation).....	41.01	4.51
<i>For Work In Restricted Working Space, Add</i>	4.52	
23 05 29 00-0936 EA 3" Pipe Saddle, Type 39 (For 3" Insulation).....	42.80	4.58
<i>For Work In Restricted Working Space, Add</i>	4.59	
23 05 29 00-0937 EA 4" Pipe Saddle, Type 39 (For 3" Insulation).....	44.57	4.66
<i>For Work In Restricted Working Space, Add</i>	4.65	
23 05 29 00-0938 EA 6" Pipe Saddle, Type 39 (For 3" Insulation).....	51.29	4.80
<i>For Work In Restricted Working Space, Add</i>	4.79	
23 05 29 00-0939 EA 8" Pipe Saddle, Type 39 (For 3" Insulation).....	64.50	4.97
<i>For Work In Restricted Working Space, Add</i>	4.98	
23 05 29 00-0940 EA 10" Pipe Saddle, Type 39 (For 3" Insulation).....	69.95	5.05
<i>For Work In Restricted Working Space, Add</i>	5.05	
23 05 29 00-0941 EA 12" Pipe Saddle, Type 39 (For 3" Insulation).....	91.30	5.15
<i>For Work In Restricted Working Space, Add</i>	5.15	
23 05 29 00-0942 EA 14" Pipe Saddle, Type 39 (For 3" Insulation).....	109.17	5.24
<i>For Work In Restricted Working Space, Add</i>	5.24	
23 05 29 00-0943 EA 16" Pipe Saddle, Type 39 (For 3" Insulation).....	127.05	5.36
<i>For Work In Restricted Working Space, Add</i>	5.34	
23 05 29 00-0944 EA 18" Pipe Saddle, Type 39 (For 3" Insulation).....	129.47	5.50
<i>For Work In Restricted Working Space, Add</i>	5.51	
23 05 29 00-0945 EA 20" Pipe Saddle, Type 39 (For 3" Insulation).....	131.80	5.63
<i>For Work In Restricted Working Space, Add</i>	5.64	
23 05 29 00-0946 EA 24" Pipe Saddle, Type 39 (For 3" Insulation).....	167.57	5.77
<i>For Work In Restricted Working Space, Add</i>	5.77	
<b>23 05 29 00-0947 Saddle, For 4" Insulation (Cooper B-Line B3165)</b> <small>(23 05 29 00-0870)</small>		
Note: Type 39.		
23 05 29 00-0948 EA 2" Pipe Saddle, Type 39 (For 4" Insulation).....	42.43	4.53
<i>For Work In Restricted Working Space, Add</i>	4.52	
23 05 29 00-0949 EA 2-1/2" Pipe Saddle, Type 39 (For 4" Insulation).....	46.51	4.61
<i>For Work In Restricted Working Space, Add</i>	4.62	
23 05 29 00-0950 EA 3" Pipe Saddle, Type 39 (For 4" Insulation).....	48.62	4.69
<i>For Work In Restricted Working Space, Add</i>	4.69	
23 05 29 00-0951 EA 4" Pipe Saddle, Type 39 (For 4" Insulation).....	50.81	4.75
<i>For Work In Restricted Working Space, Add</i>	4.75	
23 05 29 00-0952 EA 6" Pipe Saddle, Type 39 (For 4" Insulation).....	62.20	4.91
<i>For Work In Restricted Working Space, Add</i>	4.91	
23 05 29 00-0953 EA 8" Pipe Saddle, Type 39 (For 4" Insulation).....	73.58	5.09
<i>For Work In Restricted Working Space, Add</i>	5.08	
23 05 29 00-0954 EA 10" Pipe Saddle, Type 39 (For 4" Insulation).....	76.08	5.16
<i>For Work In Restricted Working Space, Add</i>	5.18	
23 05 29 00-0955 EA 12" Pipe Saddle, Type 39 (For 4" Insulation).....	97.56	5.28
<i>For Work In Restricted Working Space, Add</i>	5.28	
23 05 29 00-0956 EA 14" Pipe Saddle, Type 39 (For 4" Insulation).....	118.68	5.35
<i>For Work In Restricted Working Space, Add</i>	5.34	
23 05 29 00-0957 EA 16" Pipe Saddle, Type 39 (For 4" Insulation).....	139.99	5.49
<i>For Work In Restricted Working Space, Add</i>	5.47	
23 05 29 00-0958 EA 18" Pipe Saddle, Type 39 (For 4" Insulation).....	171.47	5.62
<i>For Work In Restricted Working Space, Add</i>	5.60	
23 05 29 00-0959 EA 20" Pipe Saddle, Type 39 (For 4" Insulation).....	202.78	5.76
<i>For Work In Restricted Working Space, Add</i>	5.77	
23 05 29 00-0960 EA 24" Pipe Saddle, Type 39 (For 4" Insulation).....	216.98	5.90
<i>For Work In Restricted Working Space, Add</i>	5.90	
23 05 29 00-0961 EA 30" Pipe Saddle, Type 39 (For 4" Insulation).....	228.39	6.06
<i>For Work In Restricted Working Space, Add</i>	6.06	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0962 EA 36" Pipe Saddle, Type 39 (For 4" Insulation) ..... <i>For Work In Restricted Working Space, Add</i>	236.83 6.20	6.21
<b>23 05 29 00-0963 Adjustable Pipe Saddle Support (Cooper B-Line B3096) (23 05 29 00-0842)</b> Note: Type 38.		
23 05 29 00-0964 EA 2" Adjustable Pipe Saddle Support, Type 38 .....	96.07	14.70
23 05 29 00-0965 EA 3" Adjustable Pipe Saddle Support, Type 38 .....	101.83	17.05
23 05 29 00-0966 EA 4" Adjustable Pipe Saddle Support, Type 38 .....	123.73	19.41
23 05 29 00-0967 EA 5" Adjustable Pipe Saddle Support, Type 38 .....	129.02	21.17
23 05 29 00-0968 EA 6" Adjustable Pipe Saddle Support, Type 38 .....	143.17	23.53
23 05 29 00-0969 EA 8" Adjustable Pipe Saddle Support, Type 38 .....	162.81	29.41
23 05 29 00-0970 EA 10" Adjustable Pipe Saddle Support, Type 38 .....	212.92	39.40
23 05 29 00-0971 EA 12" Adjustable Pipe Saddle Support, Type 38 .....	263.27	58.81
<b>23 05 29 00-0972 Pipe Stanchion Support (Cooper B-Line B3090) (23 05 29 00-0842)</b> Note: Type 37.		
23 05 29 00-0973 EA 2-1/2" Pipe Stanchion Support With U-Bolt, Type 37 .....	118.84	14.70
23 05 29 00-0974 EA 3" Pipe Stanchion Support With U-Bolt, Type 37 .....	123.04	17.05
23 05 29 00-0975 EA 3-1/2" Pipe Stanchion Support With U-Bolt, Type 37 .....	131.84	18.23
23 05 29 00-0976 EA 4" Pipe Stanchion Support With U-Bolt, Type 37 .....	134.58	19.41
23 05 29 00-0977 EA 5" Pipe Stanchion Support With U-Bolt, Type 37 .....	141.51	21.17
23 05 29 00-0978 EA 6" Pipe Stanchion Support With U-Bolt, Type 37 .....	150.04	23.53
23 05 29 00-0979 EA 8" Pipe Stanchion Support With U-Bolt, Type 37 .....	190.53	29.41
23 05 29 00-0980 EA 10" Pipe Stanchion Support With U-Bolt, Type 37 .....	257.03	39.40
23 05 29 00-0981 EA 12" Pipe Stanchion Support With U-Bolt, Type 37 .....	336.28	58.81
<b>23 05 29 00-0982 Pipe Saddle Support (Cooper B-Line B3095) (23 05 29 00-0842)</b> Note: Type 36.		
23 05 29 00-0983 EA 2-1/2" Pipe Saddle Support, Type 36 .....	61.11	14.70
23 05 29 00-0984 EA 3" Pipe Saddle Support, Type 36 .....	65.31	17.05
23 05 29 00-0985 EA 3-1/2" Pipe Saddle Support, Type 36 .....	98.36	18.23
23 05 29 00-0986 EA 4" Pipe Saddle Support, Type 36 .....	101.10	19.41
23 05 29 00-0987 EA 5" Pipe Saddle Support, Type 36 .....	111.15	21.17
23 05 29 00-0988 EA 6" Pipe Saddle Support, Type 36 .....	123.22	23.53
23 05 29 00-0989 EA 8" Pipe Saddle Support, Type 36 .....	141.37	29.41
23 05 29 00-0990 EA 10" Pipe Saddle Support, Type 36 .....	164.99	39.40
23 05 29 00-0991 EA 12" Pipe Saddle Support, Type 36 .....	208.54	58.81
<b>23 05 29 00-0992 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0842)</b> Note: Insert is for use as isolated protective insulation at hangers.		
<b>23 05 29 00-0993 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0992)</b>		
23 05 29 00-0994 EA 1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	15.69	7.50
23 05 29 00-0995 EA 3/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	15.81	7.50
23 05 29 00-0996 EA 1" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	15.84	7.50
23 05 29 00-0997 EA 1-1/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	15.97	7.50
23 05 29 00-0998 EA 1-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	17.07	7.96
23 05 29 00-0999 EA 2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	17.75	8.19
23 05 29 00-1000 EA 2-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	18.51	8.53
23 05 29 00-1001 EA 3" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	19.32	8.87
23 05 29 00-1002 EA 4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	20.51	9.22
23 05 29 00-1003 EA 6" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	19.48	7.96
23 05 29 00-1004 EA 8" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	27.83	10.38
23 05 29 00-1005 EA 10" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	32.81	12.22
23 05 29 00-1006 EA 12" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	37.72	14.18
23 05 29 00-1007 EA 14" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	40.90	14.64
<b>23 05 29 00-1008 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0992)</b>		
23 05 29 00-1009 EA 1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	12.62	5.65
23 05 29 00-1010 EA 3/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	13.23	5.65
23 05 29 00-1011 EA 1" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	13.47	5.77
23 05 29 00-1012 EA 1-1/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	13.80	5.88
23 05 29 00-1013 EA 1-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	14.11	5.88
23 05 29 00-1014 EA 2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	14.67	6.11
23 05 29 00-1015 EA 2-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	15.38	6.34
23 05 29 00-1016 EA 3" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	15.80	6.45
23 05 29 00-1017 EA 4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	17.20	7.03
23 05 29 00-1018 EA 6" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	27.68	12.11
23 05 29 00-1019 EA 8" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	22.73	9.10
23 05 29 00-1020 EA 10" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	27.21	10.72
23 05 29 00-1021 EA 12" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	31.14	12.34
23 05 29 00-1022 EA 14" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate .....	37.04	14.87





	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 29 00-1023</b>		<b>2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate</b> <small>(23 05 29 00-0992)</small>		
23 05 29 00-1024	EA	1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	15.86	6.45
23 05 29 00-1025	EA	3/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	15.96	6.45
23 05 29 00-1026	EA	1" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	16.33	6.57
23 05 29 00-1027	EA	1-1/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	16.68	6.68
23 05 29 00-1028	EA	1-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	17.03	6.80
23 05 29 00-1029	EA	2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	17.67	7.03
23 05 29 00-1030	EA	2-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	18.46	7.26
23 05 29 00-1031	EA	3" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.23	7.50
23 05 29 00-1032	EA	4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	20.74	7.96
23 05 29 00-1033	EA	6" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	23.65	8.99
23 05 29 00-1034	EA	8" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	38.47	15.33
23 05 29 00-1035	EA	10" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	43.20	17.75
23 05 29 00-1036	EA	12" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	50.45	20.98
23 05 29 00-1037	EA	14" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	56.60	23.51
23 05 29 00-1038	EA	16" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	63.49	26.52
23 05 29 00-1039	EA	18" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	73.66	31.13
23 05 29 00-1040	EA	20" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	81.82	34.58
23 05 29 00-1041	EA	24" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	92.59	39.20
<b>23 05 29 00-1042</b>		<b>2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate</b> <small>(23 05 29 00-0992)</small>		
23 05 29 00-1043	EA	1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	18.24	7.50
23 05 29 00-1044	EA	3/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	18.35	7.50
23 05 29 00-1045	EA	1" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	18.82	7.61
23 05 29 00-1046	EA	1-1/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.14	7.73
23 05 29 00-1047	EA	1-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	19.46	7.73
23 05 29 00-1048	EA	2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	20.28	8.07
23 05 29 00-1049	EA	2-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	21.17	8.30
23 05 29 00-1050	EA	3" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	22.04	8.64
23 05 29 00-1051	EA	4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	23.77	9.10
23 05 29 00-1052	EA	6" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	27.13	10.38
23 05 29 00-1053	EA	8" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	33.09	11.52
23 05 29 00-1054	EA	10" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	38.87	13.25
23 05 29 00-1055	EA	12" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	46.12	16.49
23 05 29 00-1056	EA	14" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	51.27	18.10
23 05 29 00-1057	EA	16" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	62.84	23.06
23 05 29 00-1058	EA	18" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	66.77	24.21
23 05 29 00-1059	EA	20" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	76.05	27.67
23 05 29 00-1060	EA	24" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	90.67	33.43
<b>23 05 29 00-1061</b>		<b>3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate</b> <small>(23 05 29 00-0992)</small>		
23 05 29 00-1062	EA	1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	33.15	7.73
23 05 29 00-1063	EA	3/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	39.17	8.07
23 05 29 00-1064	EA	1" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	40.45	8.07
23 05 29 00-1065	EA	1-1/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	41.35	8.30
23 05 29 00-1066	EA	1-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	42.39	8.53
23 05 29 00-1067	EA	2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	43.55	8.64
23 05 29 00-1068	EA	2-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	45.72	8.87
23 05 29 00-1069	EA	3" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	47.67	9.45
23 05 29 00-1070	EA	4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	52.22	9.80
23 05 29 00-1071	EA	6" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	59.69	11.99
23 05 29 00-1072	EA	8" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	75.39	13.14
23 05 29 00-1073	EA	10" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	89.33	13.84
23 05 29 00-1074	EA	12" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	103.44	17.86
23 05 29 00-1075	EA	14" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	116.01	19.02
23 05 29 00-1076	EA	16" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	140.67	25.36
23 05 29 00-1077	EA	18" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	151.37	27.67
23 05 29 00-1078	EA	20" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	171.25	29.97
23 05 29 00-1079	EA	24" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	201.33	36.89
<b>23 05 29 00-1080</b>		<b>3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate</b> <small>(23 05 29 00-0992)</small>		
23 05 29 00-1081	EA	1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	18.24	7.50
23 05 29 00-1082	EA	3/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	22.07	9.10
23 05 29 00-1083	EA	1" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	22.62	9.10
23 05 29 00-1084	EA	1-1/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	22.97	9.22
23 05 29 00-1085	EA	1-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	23.46	9.33
23 05 29 00-1086	EA	2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	24.28	9.69
23 05 29 00-1087	EA	2-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	25.38	10.03
23 05 29 00-1088	EA	3" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	26.39	10.38
23 05 29 00-1089	EA	4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	28.55	10.95
23 05 29 00-1090	EA	6" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.55	12.45
23 05 29 00-1091	EA	8" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	39.67	13.84

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1092 EA 10" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	46.63	15.91
23 05 29 00-1093 EA 12" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	55.34	19.82
23 05 29 00-1094 EA 14" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	61.53	21.67
23 05 29 00-1095 EA 16" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	75.42	27.67
23 05 29 00-1096 EA 18" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	80.13	29.05
23 05 29 00-1097 EA 20" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	91.31	33.20
23 05 29 00-1098 EA 24" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	108.81	40.12
<b>23 05 29 00-1099 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate</b> <small>(23 05 29 00-0992)</small>		
23 05 29 00-1100 EA 1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	24.57	10.15
23 05 29 00-1101 EA 3/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	24.72	10.15
23 05 29 00-1102 EA 1" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	25.39	10.26
23 05 29 00-1103 EA 1-1/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	25.91	10.38
23 05 29 00-1104 EA 1-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	26.18	10.38
23 05 29 00-1105 EA 2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	27.74	11.06
23 05 29 00-1106 EA 2-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	28.53	11.18
23 05 29 00-1107 EA 3" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	29.75	11.65
23 05 29 00-1108 EA 4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	32.10	12.34
23 05 29 00-1109 EA 6" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	36.59	13.95
23 05 29 00-1110 EA 8" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	43.77	15.10
23 05 29 00-1111 EA 10" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	52.49	17.99
23 05 29 00-1112 EA 12" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	62.26	22.37
23 05 29 00-1113 EA 14" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	69.24	24.33
23 05 29 00-1114 EA 16" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	84.91	31.13
23 05 29 00-1115 EA 18" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	90.09	32.63
23 05 29 00-1116 EA 20" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	102.06	37.35
23 05 29 00-1117 EA 24" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	122.44	45.19
23 05 29 00-1118 EA 26" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	141.74	53.14
23 05 29 00-1119 EA 28" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	164.05	62.71
23 05 29 00-1120 EA 30" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	189.42	74.12
23 05 29 00-1121 EA 42" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	281.47	114.47
23 05 29 00-1122 EA 44" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	306.42	126.00
23 05 29 00-1123 EA 46" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	328.70	136.03
<b>23 05 29 00-1124 Equipment Housekeeping Pads</b> <small>(23 05 29)</small> See CSI section 03 31 13 00-0108 for Concrete Equipment Pads.		
<b>23 05 29 00-1125 Molded Plastic Condenser Pad</b> <small>(23 05 29 00-1124)</small>		
23 05 29 00-1126 EA 30" Round Molded Plastic Pad.....	61.48	14.70
23 05 29 00-1127 EA 30" Octagon Molded Plastic Pad.....	63.59	14.70
23 05 29 00-1128 EA 30" x 30" Molded Plastic Pad.....	61.48	14.70
23 05 29 00-1129 EA 36" x 36" Molded Plastic Pad.....	74.13	14.70
23 05 29 00-1130 EA 36" x 48" Molded Plastic Pad.....	97.78	14.70
<b>23 05 29 00-1131 Inertia Base</b> <small>(23 05 29 00-1124)</small> Note: Includes spring isolators.		
23 05 29 00-1132 EA Up To 12 SF Inertia Base, 8" Thick With Spring Base.....	801.40	
23 05 29 00-1133 EA >12 To 16 SF Inertia Base, 8" Thick With Spring Base.....	963.81	
23 05 29 00-1134 EA >16 To 20 SF Inertia Base, 8" Thick With Spring Base.....	1,103.63	
23 05 29 00-1135 EA >20 To 24 SF Inertia Base, 8" Thick With Spring Base.....	1,258.51	
<b>23 05 29 00-1136 Hanger Assemblies</b> <small>(23 05 29)</small> Note: Includes hanger, rod, nuts, washers, clamps, upper attachment, etc. Not for use where detail is available.		
23 05 29 00-1137 EA 1/2" Standard Duty Clevis Pipe Hanger Assembly.....	47.73	18.28
Note: Includes hanger, rod, nuts, washers and clamp.		
For Work In Restricted Working Space, Add	11.76	
23 05 29 00-1138 EA 3/4" Standard Duty Clevis Pipe Hanger Assembly.....	49.90	19.36
Note: Includes hanger, rod, nuts, washers and clamp.		
For Work In Restricted Working Space, Add	12.41	
23 05 29 00-1139 EA 1" Standard Duty Clevis Pipe Hanger Assembly.....	51.50	20.44
Note: Includes hanger, rod, nuts, washers and clamp.		
For Work In Restricted Working Space, Add	12.87	
23 05 29 00-1140 EA 1-1/4" Standard Duty Clevis Pipe Hanger Assembly.....	52.43	20.47
Note: Includes hanger, rod, nuts, washers and clamp.		
For Work In Restricted Working Space, Add	13.06	
23 05 29 00-1141 EA 1-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	52.69	20.47
Note: Includes hanger, rod, nuts, washers and clamp.		
For Work In Restricted Working Space, Add	13.06	
23 05 29 00-1142 EA 2" Standard Duty Clevis Pipe Hanger Assembly.....	53.85	20.63
Note: Includes hanger, rod, nuts, washers and clamp.		
For Work In Restricted Working Space, Add	13.25	
23 05 29 00-1143 EA 2-1/2" Standard Duty Clevis Pipe Hanger Assembly.....	57.51	20.38
Note: Includes hanger, rod, nuts, washers and clamp.		
For Work In Restricted Working Space, Add	12.45	
23 05 29 00-1144 EA 3" Standard Duty Clevis Pipe Hanger Assembly.....	59.46	20.97
Note: Includes hanger, rod, nuts, washers and clamp.		
For Work In Restricted Working Space, Add	12.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1145 EA 4" Standard Duty Clevis Pipe Hanger Assembly ..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	70.90 <i>13.97</i>	23.67
23 05 29 00-1146 EA 6" Standard Duty Clevis Pipe Hanger Assembly ..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	103.35 <i>18.35</i>	30.59
23 05 29 00-1147 EA 8" Standard Duty Clevis Pipe Hanger Assembly ..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	121.74 <i>21.29</i>	35.49
23 05 29 00-1148 EA 10" Standard Duty Clevis Pipe Hanger Assembly ..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	166.92 <i>26.71</i>	45.07
23 05 29 00-1149 EA 12" Standard Duty Clevis Pipe Hanger Assembly ..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	185.11 <i>29.15</i>	48.50
<b>23 05 29 00-1150 Steel Shapes For Hanger Devices (23 05 29)</b>		
<b>23 05 29 00-1151 Angle Iron For Hanger Devices (23 05 29 00-1150)</b>		
23 05 29 00-1152 LF 1/2" x 1/2" x 1/8" Angle Iron For Hanger Devices .....	2.60	1.71
23 05 29 00-1153 LF 3/4" x 3/4" x 1/8" Angle Iron For Hanger Devices .....	3.36	2.13
23 05 29 00-1154 LF 1" x 1" x 1/8" Angle Iron For Hanger Devices .....	4.10	2.55
23 05 29 00-1155 LF 1-1/4" x 1-1/4" x 3/16" Angle Iron For Hanger Devices .....	5.52	3.19
23 05 29 00-1156 LF 1-1/2" x 1-1/2" x 3/16" Angle Iron For Hanger Devices .....	6.09	3.41
23 05 29 00-1157 LF 2" x 2" x 1/4" Angle Iron For Hanger Devices .....	7.87	3.83
23 05 29 00-1158 LF 2-1/2" x 2-1/2" x 1/4" Angle Iron For Hanger Devices .....	9.75	4.66
23 05 29 00-1159 LF 3" x 2" x 3/8" Angle Iron For Hanger Devices .....	12.40	5.48
23 05 29 00-1160 LF 3" x 3" x 3/8" Angle Iron For Hanger Devices .....	14.76	6.39
<b>23 05 29 00-1161 Channels For Hanger Devices (23 05 29 00-1150)</b>		
23 05 29 00-1162 LF C2 X 1.78 - 2" Wide (Channels) For Hanger Devices .....	6.66	3.85
23 05 29 00-1163 LF C3 X 4.1 - 3" Wide (Channels) For Hanger Devices .....	10.94	5.54
23 05 29 00-1164 LF C4 X 5.4 - 4" Wide (Channels) For Hanger Devices .....	13.55	6.65
23 05 29 00-1165 LF C5 X 6.7 - 5" Wide (Channels) For Hanger Devices .....	16.15	7.76
23 05 29 00-1166 LF C6 X 8.2 - 6" Wide (Channels) For Hanger Devices .....	19.52	9.32
23 05 29 00-1167 LF C7 X 9.8 - 7" Wide (Channels) For Hanger Devices .....	23.27	11.09
23 05 29 00-1168 LF C8 X 11.5 - 8" Wide (Channels) For Hanger Devices .....	26.21	12.20
<b>23 05 29 00-1169 Structural Bar Tees For Hanger Devices (23 05 29 00-1150)</b>		
23 05 29 00-1170 LF 3/4" x 3/4" x 1/8" Structural Bar Tee For Hanger Devices.....	7.94	5.42
23 05 29 00-1171 LF 1" x 1" x 1/8" Structural Bar Tee For Hanger Devices.....	9.57	6.41
23 05 29 00-1172 LF 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee For Hanger Devices .....	12.92	7.39
23 05 29 00-1173 LF 2" x 2" x 1/4" Structural Bar Tee For Hanger Devices.....	16.64	9.86
23 05 29 00-1174 LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee For Hanger Devices .....	22.16	11.83
23 05 29 00-1175 LF 3" x 3" x 3/8" Structural Bar Tee For Hanger Devices.....	27.89	15.28
<b>23 05 29 00-1176 Structural Zees For Hanger Devices (23 05 29 00-1150)</b>		
23 05 29 00-1177 LF 1-1/4" x 1-3/4" x 1-3/4" Structural Zee For Hanger Devices.....	12.94	7.39
23 05 29 00-1178 LF 2-11/16" x 3" x 2-11/16" Structural Zee For Hanger Devices.....	14.88	7.39
23 05 29 00-1179 LF 3-1/16" x 4" x 3-1/16" Structural Zee For Hanger Devices.....	21.34	7.39
23 05 29 00-1180 LF 3-1/4" x 5" x 3-1/4" Structural Zee For Hanger Devices.....	26.43	7.39
23 05 29 00-1181 LF 3-1/2" x 6" x 3-1/2" Structural Zee For Hanger Devices.....	31.52	7.39
<b>23 05 29 00-1182 Junior I-beams For Hanger Devices (23 05 29 00-1150)</b>		
23 05 29 00-1183 LF 3" I-beam (Junior) For Hanger Devices .....	16.70	10.85
23 05 29 00-1184 LF 4" I-beam (Junior) For Hanger Devices .....	18.97	11.83
23 05 29 00-1185 LF 5" I-beam (Junior) For Hanger Devices .....	21.57	12.81
23 05 29 00-1186 LF 6" I-beam (Junior) For Hanger Devices .....	23.53	14.30
23 05 29 00-1187 LF 7" I-beam (Junior) For Hanger Devices .....	27.28	15.28
23 05 29 00-1188 LF 8" I-beam (Junior) For Hanger Devices .....	29.45	16.26
<b>23 05 33 Heat Tracing For HVAC Piping (23 05)</b>		
<b>23 05 48 Vibration and Seismic Controls for HVAC (23 05)</b>		
<b>23 05 48 13 Vibration Controls for HVAC (23 05 48)</b>		
<b>23 05 48 13-0001 Unhoused Stable Steel Spring Isolators (23 05 48 13)</b>		
Note: Includes leveling adjustment, cast top, base plate and pad. For use with floor mounted equipment only.		
23 05 48 13-0002 EA 60 LB Unhoused Steel Spring Isolator .....	130.97	32.92
23 05 48 13-0003 EA 115 LB Unhoused Steel Spring Isolator .....	141.48	32.92
23 05 48 13-0004 EA 1,130 LB Unhoused Steel Spring Isolator.....	176.34	32.92

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 05 48 13-0005</b> <b>Housed Stable Steel Spring Isolators</b> <small>(23 05 48 13)</small> Note: Includes leveling adjustment, top plate, base plate and pad. For use with floor mounted equipment only. Mason Industries, Inc.		
23 05 48 13-0006 EA To 770 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection .....	379.89	32.92
23 05 48 13-0007 EA To 1,040 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection .....	428.29	32.92
23 05 48 13-0008 EA To 1,600 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection .....	452.49	32.92
23 05 48 13-0009 EA To 2,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection .....	549.28	32.92
23 05 48 13-0010 EA To 3,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection .....	573.48	32.92
23 05 48 13-0011 EA To 730 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection .....	422.24	32.92
23 05 48 13-0012 EA To 930 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection .....	464.59	32.92
23 05 48 13-0013 EA To 1,440 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection .....	494.83	32.92
23 05 48 13-0014 EA To 1,860 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection .....	633.97	32.92
23 05 48 13-0015 EA To 2,880 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection .....	688.42	32.92
23 05 48 13-0016 EA To 3,720 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection .....	815.46	32.92
<b>23 05 48 13-0017</b> <b>Vibration Isolators</b> <small>(23 05 48 13)</small>		
<b>23 05 48 13-0018</b> <b>Spring And Rubber Hanger For 1" Deflection</b> <small>(23 05 48 13-0017)</small>		
23 05 48 13-0019 EA 50-500 LB Rated Spring And Rubber Hanger For Vibration Isolation With 3/4" Max Rod Size .....	196.65	21.17
23 05 48 13-0020 EA 600-1,000 LB Rated Spring And Rubber Hanger For Vibration Isolation With 7/8" Max Rod Size .....	436.07	23.53
<b>23 05 48 13-0021</b> <b>Rubber-In-Shear Isolator Hanger</b> <small>(23 05 48 13-0017)</small>		
23 05 48 13-0022 EA 45-340 LB Rubber In Shear Hanger 0.38" Deflection With <1/2" Rod Size .....	102.98	17.65
23 05 48 13-0023 EA 130-700 LB Rubber In Shear Hanger 0.43" Deflection With <3/4" Rod Size .....	135.34	21.17
<b>23 05 48 13-0024</b> <b>Spring Hanger For 1" Deflection</b> <small>(23 05 48 13-0017)</small>		
23 05 48 13-0025 EA 50 To 1,000 LB Rubber In Shear Hanger For 1" Deflection With <3/4" Rod Size .....	115.60	21.17
<b>23 05 48 13-0026</b> <b>Rubber-In-Shear Vibration Isolator</b> <small>(23 05 48 13-0017)</small>		
23 05 48 13-0027 EA 45-340 LB Rubber In Shear Vibration Isolation With 0.38" Deflection .....	212.14	39.99
23 05 48 13-0028 EA 130-700 LB Rubber In Shear Vibration Isolation With 0.43" Deflection .....	305.16	39.99
23 05 48 13-0029 EA 550-1,920 LB Rubber In Shear Vibration Isolation With 0.48" Deflection .....	624.41	39.99
<b>23 05 48 13-0030</b> <b>Two-Piece Spring Type Vibration Isolator</b> <small>(23 05 48 13-0017)</small> Note: For equipment support aluminum construction 1/2" adjusting and leveling bolt 1" deflection.		
23 05 48 13-0031 EA 50 - 1,000 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator .....	172.93	39.99
23 05 48 13-0032 EA >1,000 - 1,600 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator .....	179.86	39.99
<b>23 05 48 13-0033</b> <b>Open Double Spring Type Vibration Isolator</b> <small>(23 05 48 13-0017)</small> Note: For equipment support 1" deflection neoprene pad and 5/8" stud bolt.		
23 05 48 13-0034 EA 150-450 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator .....	146.68	20.00
23 05 48 13-0035 EA 500-1,000 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator .....	146.68	20.00
23 05 48 13-0036 EA 1,100-1,600 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator .....	169.79	20.00
23 05 48 13-0037 EA 1,700-2,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator .....	169.79	20.00
23 05 48 13-0038 EA 2,500-3,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator .....	274.31	20.00
<b>23 05 48 13-0039</b> <b>Isolation Pads</b> <small>(23 05 48 13-0017)</small>		
<b>23 05 48 13-0040</b> <b>Laminated Neoprene And Cork Isolation Pad</b> <small>(23 05 48 13-0039)</small>		
23 05 48 13-0041 EA 2" x 2", 1" Thick Laminated Neoprene And Cork Isolation Pad .....	7.08	2.94
23 05 48 13-0042 EA 3" x 3", 1" Thick Laminated Neoprene And Cork Isolation Pad .....	9.02	3.06
23 05 48 13-0043 EA 4" x 4", 1" Thick Laminated Neoprene And Cork Isolation Pad .....	11.23	3.18
23 05 48 13-0044 EA 12" x 12", 1" Thick Laminated Neoprene And Cork Isolation Pad .....	43.71	3.65
23 05 48 13-0045 EA 18" x 18", 1" Thick Laminated Neoprene And Cork Isolation Pad .....	83.39	4.12
<b>23 05 48 13-0046</b> <b>Neoprene And Steel Plate Isolation Pad</b> <small>(23 05 48 13-0039)</small>		
23 05 48 13-0047 EA 6" x 4", 5/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad .....	38.19	2.94
23 05 48 13-0048 EA 6" x 4", 7/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad .....	41.73	2.94
<b>23 05 48 13-0049</b> <b>Neoprene Isolation Pad</b> <small>(23 05 48 13-0039)</small>		
23 05 48 13-0050 EA 2" x 2", 3/8" Thick Ribbed Neoprene Isolation Pad .....	6.62	2.94
23 05 48 13-0051 EA 3" x 3", 3/8" Thick Ribbed Neoprene Isolation Pad .....	7.53	2.94
23 05 48 13-0052 EA 4" x 4", 3/8" Thick Ribbed Neoprene Isolation Pad .....	8.95	2.94
23 05 48 13-0053 EA 12" x 12", 3/8" Thick Ribbed Neoprene Isolation Pad .....	43.01	3.53
23 05 48 13-0054 EA 18" x 18", 3/8" Thick Ribbed Neoprene Isolation Pad .....	78.39	4.12
<b>23 05 48 13-0055</b> <b>Threaded Flexible Bronze Hose Connectors</b> <small>(23 05 48 13)</small> Note: Includes hex threaded nipple ends.		
23 05 48 13-0056 EA 3/8" Diameter x 9" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	97.65	18.82



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0057	EA	1/2" Diameter x 10" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	110.84	25.88
23 05 48 13-0058	EA	3/4" Diameter x 11" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	136.53	31.76
23 05 48 13-0059	EA	1" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	158.08	37.64
23 05 48 13-0060	EA	1-1/4" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	180.40	49.40
23 05 48 13-0061	EA	1-1/2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	202.48	52.58
23 05 48 13-0062	EA	2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	274.38	62.34
23 05 48 13-0063	EA	2-1/2" Diameter x 16" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends .....	386.17	97.16
<b>23 05 48 13-0064 Weld End Flexible Hose Connectors (23 05 48 13)</b>				
23 05 48 13-0065	EA	1/2" Diameter x 10" Flexible Hose Connection, Weld Ends .....	238.16	67.51
23 05 48 13-0066	EA	3/4" Diameter x 10" Flexible Hose Connection, Weld Ends .....	277.43	74.11
23 05 48 13-0067	EA	1" Diameter x 10" Flexible Hose Connection, Weld Ends .....	311.75	78.46
23 05 48 13-0068	EA	1-1/4" Diameter x 11" Flexible Hose Connection, Weld Ends .....	348.91	89.39
23 05 48 13-0069	EA	1-1/2" Diameter x 12" Flexible Hose Connection, Weld Ends .....	394.83	96.45
23 05 48 13-0070	EA	2" Diameter x 14" Flexible Hose Connection, Weld Ends .....	496.52	125.50
23 05 48 13-0071	EA	2-1/2" Diameter x 16" Flexible Hose Connection, Weld Ends .....	736.92	141.15
23 05 48 13-0072	EA	3" Diameter x 16" Flexible Hose Connection, Weld Ends .....	906.64	158.78
23 05 48 13-0073	EA	4" Diameter x 18" Flexible Hose Connection, Weld Ends .....	1,258.03	235.24
<b>23 05 48 13-0074 Flanged Flexible Hose Connectors (23 05 48 13)</b>				
<b>23 05 48 13-0075 Flanged Flexible Molded Rubber Hose Connectors (23 05 48 13-0074)</b>				
Note: With helical wire reinforcement 150 PSI.				
23 05 48 13-0076	EA	1-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	294.86	88.22
23 05 48 13-0077	EA	2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	317.30	97.97
23 05 48 13-0078	EA	2-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	490.10	195.73
23 05 48 13-0079	EA	3" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	662.71	291.12
23 05 48 13-0080	EA	4" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	868.00	375.81
23 05 48 13-0081	EA	6" Diameter x 18" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	1,131.17	364.75
23 05 48 13-0082	EA	8" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	1,397.97	416.59
23 05 48 13-0083	EA	10" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	1,848.52	495.76
23 05 48 13-0084	EA	12" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI .....	4,016.87	620.07
<b>23 05 48 13-0085 Flanged Flexible Corrugated Stainless Steel Hose Connectors (23 05 48 13-0074)</b>				
Note: With braided metal wire.				
23 05 48 13-0086	EA	1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	221.35	80.22
23 05 48 13-0087	EA	1" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	191.80	110.32
23 05 48 13-0088	EA	1-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	414.93	147.03
23 05 48 13-0089	EA	2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	517.24	220.54
23 05 48 13-0090	EA	2-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	552.32	242.66
23 05 48 13-0091	EA	3" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	633.58	293.82
23 05 48 13-0092	EA	4" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	810.99	376.16
23 05 48 13-0093	EA	6" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	1,103.88	436.82
23 05 48 13-0094	EA	8" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	1,931.43	583.59
23 05 48 13-0095	EA	10" Diameter x 13" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	2,283.67	674.83
23 05 48 13-0096	EA	12" Diameter x 14" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation .....	3,058.19	729.49
<b>23 05 48 13-0097 Flanged Flexible Molded Teflon Hose Connectors (23 05 48 13-0074)</b>				
Note: 150 PSI.				
23 05 48 13-0098	EA	2-1/2" Diameter x 3-3/16" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation .....	1,445.58	170.55
23 05 48 13-0099	EA	3" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation .....	1,615.77	199.96
23 05 48 13-0100	EA	4" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation .....	2,426.81	336.06
23 05 48 13-0101	EA	6" Diameter x 4" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation .....	2,908.26	364.75
23 05 48 13-0102	EA	8" Diameter x 6" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation .....	3,877.31	447.42
<b>23 05 48 13-0103 Flexible Hose Connectors Braided Metal Hose Type, Bronze (23 05 48 13)</b>				
<b>23 05 48 13-0104 Braided Metal Hose Type Flexible Bronze Hose Connectors (23 05 48 13-0103)</b>				
Note: MPT connection.				
23 05 48 13-0105	EA	1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	58.99	2.35
23 05 48 13-0106	EA	1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	71.05	2.35
23 05 48 13-0107	EA	1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	78.45	3.05
23 05 48 13-0108	EA	1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	96.23	3.05
23 05 48 13-0109	EA	3/4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	79.33	2.82
23 05 48 13-0110	EA	3/4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	96.55	2.82
23 05 48 13-0111	EA	3/4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	109.84	3.65
23 05 48 13-0112	EA	3/4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection .....	136.65	3.65

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 48 Vibration and Seismic Controls for HVAC**MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

23 05 48 13-0113	EA	1" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	108.84	3.30
23 05 48 13-0114	EA	1" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	119.41	3.30
23 05 48 13-0115	EA	1" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	141.30	4.35
23 05 48 13-0116	EA	1" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	180.51	4.35
23 05 48 13-0117	EA	1" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	219.43	4.35
23 05 48 13-0118	EA	1" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	258.47	4.35
23 05 48 13-0119	EA	1-1/4" Or 1-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	155.61	4.22
23 05 48 13-0120	EA	1-1/4" Or 1-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	172.07	4.22
23 05 48 13-0121	EA	1-1/4" Or 1-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	222.23	4.22
23 05 48 13-0122	EA	1-1/4" Or 1-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	309.31	5.63
23 05 48 13-0123	EA	1-1/4" Or 1-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	359.86	5.63
23 05 48 13-0124	EA	1-1/4" Or 1-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	427.12	5.63
23 05 48 13-0125	EA	2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	213.87	5.09
23 05 48 13-0126	EA	2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	248.27	5.09
23 05 48 13-0127	EA	2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	314.89	5.09
23 05 48 13-0128	EA	2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	419.99	6.81
23 05 48 13-0129	EA	2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	521.52	6.81
23 05 48 13-0130	EA	2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	622.97	6.81
23 05 48 13-0131	EA	2-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	298.22	6.38
23 05 48 13-0132	EA	2-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	340.59	6.06
23 05 48 13-0133	EA	2-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	383.38	6.06
23 05 48 13-0134	EA	2-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	472.04	8.12
23 05 48 13-0135	EA	2-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	558.09	8.12
23 05 48 13-0136	EA	2-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	641.47	8.12
23 05 48 13-0137	EA	3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	472.08	8.12
23 05 48 13-0138	EA	3" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	529.24	8.12
23 05 48 13-0139	EA	3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	278.44	8.12
23 05 48 13-0140	EA	3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	336.92	10.82
23 05 48 13-0141	EA	3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	821.73	10.82
23 05 48 13-0142	EA	3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	934.21	10.82
23 05 48 13-0143	EA	4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	868.83	8.75
23 05 48 13-0144	EA	4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	935.62	8.75
23 05 48 13-0145	EA	4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	1,002.42	8.75
23 05 48 13-0146	EA	4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	1,143.55	11.67
23 05 48 13-0147	EA	4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	1,276.62	11.67
23 05 48 13-0148	EA	4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	1,412.55	11.67

**23 05 48 13-0149 Braided Stainless Steel Flexible Hose Connectors** (23 05 48 13-0103)

Note: Over braided carbon steel connection.

23 05 48 13-0150	EA	2" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	255.87	5.13
23 05 48 13-0151	EA	2" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	310.51	5.13
23 05 48 13-0152	EA	2" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	364.13	5.13
23 05 48 13-0153	EA	2" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	476.48	6.88
23 05 48 13-0154	EA	2" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	585.17	6.88
23 05 48 13-0155	EA	2" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	693.74	6.88
23 05 48 13-0156	EA	2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	289.87	6.06
23 05 48 13-0157	EA	2-1/2" Or 3" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	346.98	6.06
23 05 48 13-0158	EA	2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	404.36	6.06
23 05 48 13-0159	EA	2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	523.57	8.12
23 05 48 13-0160	EA	2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	637.85	8.12
23 05 48 13-0161	EA	2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	750.54	8.12
23 05 48 13-0162	EA	4" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	305.54	8.12
23 05 48 13-0163	EA	4" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	370.97	8.33
23 05 48 13-0164	FT	4" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	437.34	8.12
23 05 48 13-0165	EA	4" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	579.11	10.82
23 05 48 13-0166	EA	4" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	711.12	10.82
23 05 48 13-0167	EA	4" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	846.88	10.82
23 05 48 13-0168	EA	6" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	616.48	15.74
23 05 48 13-0169	EA	6" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	919.07	15.84
23 05 48 13-0170	EA	6" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,232.99	20.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0171 EA 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,535.71	20.87
23 05 48 13-0172 EA 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,838.35	20.87
23 05 48 13-0173 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,076.09	17.60
23 05 48 13-0174 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,305.03	17.60
23 05 48 13-0175 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,770.80	22.88
23 05 48 13-0176 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	2,224.96	22.88
23 05 48 13-0177 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	2,679.00	22.88
23 05 48 13-0178 EA 10" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,147.89	22.01
23 05 48 13-0179 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	1,720.25	22.01
23 05 48 13-0180 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	2,305.46	28.65
23 05 48 13-0181 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	2,879.82	28.65
23 05 48 13-0182 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	3,451.76	28.65
23 05 48 13-0183 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	2,303.63	26.60
23 05 48 13-0184 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	3,017.93	26.60
23 05 48 13-0185 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	3,771.78	35.79
23 05 48 13-0186 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	4,492.35	35.79
23 05 48 13-0187 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded .....	5,216.29	35.79
<b>23 05 48 13-0188 Braided Metal Hose Type Flexible Bronze Hose Connectors</b> <small>(23 05 48 13-0103)</small>		
<small>Note: Flanged end connection (carbon steel ends).</small>		
23 05 48 13-0189 EA 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	126.30	5.09
23 05 48 13-0190 EA 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	344.96	144.26
23 05 48 13-0191 EA 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	394.71	144.26
23 05 48 13-0192 EA 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	444.46	144.26
23 05 48 13-0193 EA 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	494.22	144.26
23 05 48 13-0194 EA 2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	360.52	183.99
23 05 48 13-0195 EA 2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	412.95	183.99
23 05 48 13-0196 EA 2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	465.39	183.99
23 05 48 13-0197 EA 2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	517.85	183.99
23 05 48 13-0198 EA 2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	569.40	183.99
23 05 48 13-0199 EA 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	546.98	308.44
23 05 48 13-0200 EA 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	608.17	309.21
23 05 48 13-0201 EA 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	670.35	308.44
23 05 48 13-0202 EA 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	739.88	308.44
23 05 48 13-0203 EA 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	793.01	308.44
23 05 48 13-0204 EA 6" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	775.33	393.31
23 05 48 13-0205 EA 6" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	913.98	393.31
23 05 48 13-0206 EA 6" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,052.70	394.72
23 05 48 13-0207 EA 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,191.37	393.31
23 05 48 13-0208 EA 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,330.02	393.31
23 05 48 13-0209 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,094.32	449.86
23 05 48 13-0210 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,199.21	449.86
23 05 48 13-0211 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,407.17	449.86

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 48 Vibration and Seismic Controls for HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0212 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,615.21	449.86
23 05 48 13-0213 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,823.15	449.86
23 05 48 13-0214 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,638.94	547.66
23 05 48 13-0215 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	1,900.26	547.66
23 05 48 13-0216 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	2,163.34	547.66
23 05 48 13-0217 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	2,425.86	547.66
23 05 48 13-0218 EA 10" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	2,638.02	547.66
23 05 48 13-0219 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	2,159.22	665.00
23 05 48 13-0220 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	2,490.83	665.00
23 05 48 13-0221 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	2,822.42	665.00
23 05 48 13-0222 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	3,154.02	665.00
23 05 48 13-0223 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends) .....	3,485.63	665.00

**23 05 53 Identification For HVAC Piping And Equipment** (23 05)**23 05 53 00-0001 Systems Identification** (23 05 53)**23 05 53 00-0002 Pipe Marker Snap-On Type Plastic** (23 05 53 00-0001)

Note: Outside diameters include insulation where necessary.

23 05 53 00-0003 EA 1/2" Outside Diameter Snap-On Plastic Marker .....	12.24
23 05 53 00-0004 EA 3/4" Outside Diameter Snap-On Plastic Marker .....	12.54
23 05 53 00-0005 EA 1" Outside Diameter Snap-On Plastic Marker .....	12.69
23 05 53 00-0006 EA 1-1/4" Outside Diameter Snap-On Plastic Marker .....	12.91
23 05 53 00-0007 EA 1-1/2" Outside Diameter Snap-On Plastic Marker .....	13.97
23 05 53 00-0008 EA 2" Outside Diameter Snap-On Plastic Marker .....	14.50
23 05 53 00-0009 EA 2-1/2" Outside Diameter Snap-On Plastic Marker .....	18.84
23 05 53 00-0010 EA 3" Outside Diameter Snap-On Plastic Marker .....	19.25
23 05 53 00-0011 EA 3-1/2" Outside Diameter Snap-On Plastic Marker .....	19.70
23 05 53 00-0012 EA 4" Outside Diameter Snap-On Plastic Marker .....	19.95
23 05 53 00-0013 EA 4-1/2" Outside Diameter Snap-On Plastic Marker .....	20.21
23 05 53 00-0014 EA 5" Outside Diameter Snap-On Plastic Marker .....	20.46
23 05 53 00-0015 EA 6" Outside Diameter Snap-On Plastic Marker .....	21.19
23 05 53 00-0016 EA 7" Outside Diameter Snap-On Plastic Marker .....	21.47
23 05 53 00-0017 EA 8" Outside Diameter Snap-On Plastic Marker .....	24.48
23 05 53 00-0018 EA 10" Outside Diameter Snap-On Plastic Marker .....	25.95
23 05 53 00-0019 EA 12" Outside Diameter Snap-On Plastic Marker .....	30.41
23 05 53 00-0020 EA 14" Outside Diameter Snap-On Plastic Marker .....	34.70

**23 05 53 00-0021 Pipe Markers Pressure-Sensitive** (23 05 53 00-0001)

Note: Stick on include arrow tape. Outside diameter includes insulation where necessary.

23 05 53 00-0022 EA 1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	12.50
23 05 53 00-0023 EA 3/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	13.09
23 05 53 00-0024 EA 1" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	14.27
23 05 53 00-0025 EA 1-1/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	14.51
23 05 53 00-0026 EA 1-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	15.31
23 05 53 00-0027 EA 2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	15.67
23 05 53 00-0028 EA 2-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	17.29
23 05 53 00-0029 EA 3" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	17.76
23 05 53 00-0030 EA 3-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	18.11
23 05 53 00-0031 EA 4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	18.48
23 05 53 00-0032 EA 4-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	19.21
23 05 53 00-0033 EA 5" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	19.99
23 05 53 00-0034 EA 6" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	20.70
23 05 53 00-0035 EA 7" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	21.38
23 05 53 00-0036 EA 8" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	22.53
23 05 53 00-0037 EA 10" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	24.52
23 05 53 00-0038 EA 12" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation .....	28.40

**23 05 53 00-0039 Valve Identification Tag** (23 05 53 00-0001)

Note: Includes beaded chain and/or "S" hook.

23 05 53 00-0040 EA 2" Diameter Identification Tag, Brass .....	10.80
23 05 53 00-0041 EA 1-1/2" Diameter Identification Tag, Plastic .....	10.40
23 05 53 00-0042 EA 1-1/2" Diameter Identification Tag, Brass .....	10.28

**23 05 93 Testing, Adjusting, And Balancing For HVAC** (23 05)

Note: New systems include all necessary testing, startup, and checkout. Use these tasks for testing, startup, and checkout of





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
existing systems.		
<b>23 05 93 00-0001 Heating And Ventilating Equipment</b> <small>(23 05 93)</small>		
23 05 93 00-0002 EA Balancing Centrifugal Fans.....	481.52	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-240.76	
23 05 93 00-0003 EA Balancing Heating And Ventilating Units .....	601.67	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-300.84	
23 05 93 00-0004 EA Balancing In Line Fan .....	541.72	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-270.86	
23 05 93 00-0005 EA Balancing Propeller And Wall Fan .....	120.38	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-60.19	
23 05 93 00-0006 EA Balancing Roof Exhaust Fan .....	361.12	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-180.56	
23 05 93 00-0007 EA Balancing Wall Fan .....	90.27	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-45.14	
23 05 93 00-0008 EA Balancing Fan Section Exhaust.....	480.76	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-240.38	
<b>23 05 93 00-0009 Air Conditioning Equipment</b> <small>(23 05 93)</small>		
23 05 93 00-0010 EA Balancing Constant Volume Air Handling Unit.....	866.13	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-433.07	
23 05 93 00-0011 EA Balancing Package A/C Unit.....	324.80	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-162.40	
23 05 93 00-0012 EA Balancing Rooftop Heat And Cool Unit.....	433.06	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-216.53	
23 05 93 00-0013 EA Balancing Variable Volume Air Handling Unit.....	1,515.73	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-757.87	
<b>23 05 93 00-0014 Registers, Diffusers, Terminal Air Units And Dampers</b> <small>(23 05 93)</small>		
23 05 93 00-0015 EA Balancing HVAC Duct System, Ceiling Height To 12' Supply, Return, Exhaust, Register And Diffuser .....	90.28	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-45.14	
23 05 93 00-0016 EA Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser .....	150.48	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-75.24	
23 05 93 00-0017 EA Balancing HVAC Duct System, Floor Height Supply, Return, Exhaust, Register And Diffuser .....	78.25	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-39.13	
23 05 93 00-0018 EA Balance Variable Air Volume Box.....	84.78	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-42.39	
23 05 93 00-0019 EA Balance Constant Volume Box .....	84.78	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-42.39	
23 05 93 00-0020 EA Balance Fan Powered Box .....	96.31	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-48.16	
23 05 93 00-0021 EA Balance Lab Fume Hood .....	391.25	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-195.63	
23 05 93 00-0022 EA Balance General Hood .....	300.95	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-150.48	
23 05 93 00-0023 EA Balance Induction Unit.....	180.58	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-90.29	
23 05 93 00-0024 EA Balance Moduline - Master .....	72.21	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-36.11	
23 05 93 00-0025 EA Balance Moduline - Slave .....	36.11	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-18.06	
23 05 93 00-0026 EA Balance Dampers .....	33.53	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-16.77	
23 05 93 00-0027 EA Balance Regenerators .....	480.76	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-240.38	
<b>23 05 93 00-0028 Water Balancing Of Components</b> <small>(23 05 93)</small>		
23 05 93 00-0029 EA Water Balance, Air Cool Condenser .....	595.52	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-297.76	
23 05 93 00-0030 EA Water Balance, Cabinet Heater .....	75.79	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-37.90	
23 05 93 00-0031 EA Water Balance, Chiller, Air Cooled .....	649.54	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-324.77	
23 05 93 00-0032 EA Water Balance, Chiller, Water Cooled .....	866.13	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-433.07	
23 05 93 00-0033 EA Water Balance, Cooling Tower .....	433.06	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-216.53	
23 05 93 00-0034 EA Water Balance, Fan Coil And Vent .....	108.33	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-54.17	
23 05 93 00-0035 EA Water Balance, Fin Tube And Radiant Panel .....	108.27	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-54.14	
23 05 93 00-0036 EA Water Balance, Main And Duct Re-Heat Coil .....	119.10	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-59.55	
23 05 93 00-0037 EA Water Balance, Pumps .....	324.81	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-162.41	
23 05 93 00-0038 EA Water Balance, Unit Heater .....	75.79	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-37.90	
23 05 93 00-0039 EA Water Balancing, Converter.....	324.93	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-162.47	
23 05 93 00-0040 EA Water Balancing, Cocks And Valves .....	54.12	
<i>For Testing Of Unit Without Balancing, Deduct</i>	-27.06	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 05 Common Work Results For HVAC****23 05 93 Testing, Adjusting, And Balancing For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0041 EA Water Balance, Convector.....	64.96	
For Testing Of Unit Without Balancing, Deduct	-32.48	
23 05 93 00-0042 EA Water Balancing, Backflow Preventer Or Reduced Pressure Zone Valves .....	81.20	
For Testing Of Unit Without Balancing, Deduct	-40.60	
23 05 93 00-0043 EA Water Balance, Boiler, Up To 500 MBH.....	703.73	
For Testing Of Unit Without Balancing, Deduct	-351.87	
23 05 93 00-0044 EA >500 To 1,000 MBH, Water Balance, Boiler .....	1,299.20	
For Testing Of Unit Without Balancing, Deduct	-649.60	
23 05 93 00-0045 EA >1,000 MBH, Water Balance, Boiler .....	2,381.87	
For Testing Of Unit Without Balancing, Deduct	-1,190.94	
<b>23 05 93 00-0046 Non Destructive Testing (23 05 93)</b>		
<b>23 05 93 00-0047 X-Ray Welds, Non-Destructive Testing (23 05 93 00-0046)</b>		
<b>23 05 93 00-0048 X-Ray Welds Minimum Set-Up Charge (23 05 93 00-0047)</b>		
23 05 93 00-0049 EA X-Ray Welds Minimum Set-Up Charge.....	816.93	
Note: For charges where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
<b>23 05 93 00-0050 Piping, X-Ray Welds, Non Destructive Testing (23 05 93 00-0047)</b>		
23 05 93 00-0051 EA Up To 3/4" Piping, X-Ray Welds, Non Destructive Testing .....	86.98	
23 05 93 00-0052 EA 1" Piping, X-Ray Welds, Non Destructive Testing.....	99.11	
23 05 93 00-0053 EA 1-1/4" - 1-1/2" Piping, X-Ray Welds, Non Destructive Testing.....	111.27	
23 05 93 00-0054 EA 2" Piping, X-Ray Welds, Non Destructive Testing.....	117.53	
23 05 93 00-0055 EA 3" Piping, X-Ray Welds, Non Destructive Testing.....	123.80	
23 05 93 00-0056 EA 4" Piping, X-Ray Welds, Non Destructive Testing.....	130.45	
23 05 93 00-0057 EA 6" Piping, X-Ray Welds, Non Destructive Testing.....	143.00	
23 05 93 00-0058 EA 8" Piping, X-Ray Welds, Non Destructive Testing.....	155.53	
23 05 93 00-0059 EA 10" Piping, X-Ray Welds, Non Destructive Testing.....	162.17	
23 05 93 00-0060 EA 12" Piping, X-Ray Welds, Non Destructive Testing.....	168.82	
<b>23 05 93 00-0061 Liquid Penetration Of Welds, Non Destructive Testing (23 05 93 00-0046)</b>		
<b>23 05 93 00-0062 Piping, Liquid Penetration Of Welds, Non Destructive Testing (23 05 93 00-0061)</b>		
23 05 93 00-0063 EA Up To 3/4" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....	90.89	
23 05 93 00-0064 EA 1" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....	96.77	
23 05 93 00-0065 EA 1-1/4" - 1-1/2" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....	102.66	
23 05 93 00-0066 EA 2" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....	105.59	
23 05 93 00-0067 EA 3" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....	110.00	
23 05 93 00-0068 EA 4" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....	114.42	
23 05 93 00-0069 EA 6" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....	123.24	
23 05 93 00-0070 EA 8" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....	132.05	
23 05 93 00-0071 EA 10" Piping, Liquid Penetration Of Welds, Non Destructive Testing .....	140.88	
23 05 93 00-0072 EA 12" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	149.70	
<b>23 05 93 00-0073 Hydrostatic Testing (23 05 93 00-0046)</b>		
Note: Includes flushing and restoring of system.		
<b>23 05 93 00-0074 Piping, Hydrostatic Testing (23 05 93 00-0073)</b>		
23 05 93 00-0075 EA Up To 100', Up To 1-1/2" Piping, Hydrostatic Testing .....	773.82	
23 05 93 00-0076 EA >100' To 250', Up To 1-1/2" Piping, Hydrostatic Testing.....	1,105.47	
23 05 93 00-0077 EA >250' To 500', Up To 1-1/2" Piping, Hydrostatic Testing.....	1,324.57	
23 05 93 00-0078 EA >500' To 1,000', Up To 1-1/2" Piping, Hydrostatic Testing.....	1,764.33	
23 05 93 00-0079 EA >1,000' To 2,000', Up To 1-1/2" Piping, Hydrostatic Testing.....	2,673.22	
23 05 93 00-0080 EA Up To 100', >1-1/2" To 4" Piping, Hydrostatic Testing .....	1,028.88	
23 05 93 00-0081 EA >100' To 250', >1-1/2" To 4" Piping, Hydrostatic Testing.....	1,470.27	
23 05 93 00-0082 EA >250' To 500', >1-1/2" To 4" Piping, Hydrostatic Testing.....	1,750.32	
23 05 93 00-0083 EA >500' To 1,000', >1-1/2" To 4" Piping, Hydrostatic Testing.....	2,293.60	
23 05 93 00-0084 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Hydrostatic Testing.....	3,469.82	
23 05 93 00-0085 EA Up To 100', >4" To 10" Piping, Hydrostatic Testing .....	1,340.89	
23 05 93 00-0086 EA >100' To 250', >4" To 10" Piping, Hydrostatic Testing .....	1,911.35	
23 05 93 00-0087 EA >250' To 500', >4" To 10" Piping, Hydrostatic Testing .....	1,882.10	
23 05 93 00-0088 EA >500' To 1,000', >4" To 10" Piping, Hydrostatic Testing .....	2,465.69	
23 05 93 00-0089 EA >1,000' To 2,000', >4" To 10" Piping, Hydrostatic Testing .....	3,730.14	
23 05 93 00-0090 EA Up To 100', >10" To 14" Piping, Hydrostatic Testing .....	1,740.80	
23 05 93 00-0091 EA >100' To 250', >10" To 14" Piping, Hydrostatic Testing .....	2,481.80	
23 05 93 00-0092 EA >250' To 500', >10" To 14" Piping, Hydrostatic Testing .....	2,447.20	
23 05 93 00-0093 EA >500' To 1,000', >10" To 14" Piping, Hydrostatic Testing .....	3,209.76	
23 05 93 00-0094 EA >1,000' To 2,000', >10" To 14" Piping, Hydrostatic Testing.....	4,863.29	
<b>23 05 93 00-0095 Pneumatic Testing (23 05 93 00-0046)</b>		
Note: Includes soaping joints flushing and restoring of system. Can be used for gas or smoke test.		
<b>23 05 93 00-0096 Piping, Pneumatic Testing (23 05 93 00-0095)</b>		
23 05 93 00-0097 EA Up To 100', Up To 1-1/2" Piping, Pneumatic Testing.....	879.70	
Note: Includes soaping joints.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0098 EA >100' To 250', Up To 1-1/2" Piping, Pneumatic Testing ..... Note: Includes soaping joints.	1,255.37	
23 05 93 00-0099 EA >250' To 500', Up To 1-1/2" Piping, Pneumatic Testing ..... Note: Includes soaping joints.	1,355.09	
23 05 93 00-0100 EA >500' To 1,000', Up To 1-1/2" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,735.23	
23 05 93 00-0101 EA >1,000' To 2,000', Up To 1-1/2" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,713.71	
23 05 93 00-0102 EA Up To 100', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,147.91	
23 05 93 00-0103 EA >100' To 250', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,630.15	
23 05 93 00-0104 EA >250' To 500', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,761.52	
23 05 93 00-0105 EA >500' To 1,000', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,256.33	
23 05 93 00-0106 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	3,527.43	
23 05 93 00-0107 EA Up To 100', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,381.70	
23 05 93 00-0108 EA >100' To 250', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,950.10	
23 05 93 00-0109 EA >250' To 500', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,059.80	
23 05 93 00-0110 EA >500' To 1,000', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,631.43	
23 05 93 00-0111 EA >1,000' To 2,000', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	4,120.01	
23 05 93 00-0112 EA Up To 100', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,799.06	
23 05 93 00-0113 EA >100' To 250', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,535.26	
23 05 93 00-0114 EA >250' To 500', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,678.48	
23 05 93 00-0115 EA >500' To 1,000', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	3,421.38	
23 05 93 00-0116 EA >1,000' To 2,000', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	5,364.37	
<b>23 05 93 00-0117 EPA Testing Of Sludge (23 05 93)</b>		
23 05 93 00-0118 EA Flashpoint And Lead Test For Lead.....	634.24	
23 05 93 00-0119 EA Air Test/Combustion Gas Level.....	75.33	
23 05 93 00-0120 EA Toxicity Test For Heavy Metals.....	970.63	
23 05 93 00-0121 EA Aboveground Tank Water Settlement Test Including Water.....	738.60	

**23 07 HVAC Insulation (23)**

**23 07 13 Duct Insulation (23 07)**

Note: Based on SF surface area of duct to receive insulation.

**23 07 13 00-0001 FSK Fiber Glass Duct Wrap Insulation (23 07 13)**

Note: Foil-scrim kraft (FSK) facing lapped and joints sealed vapor tight.

**23 07 13 00-0002 Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)**

23 07 13 00-0003 SF 1" Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3.22 -0.06 0.92	2.30
23 07 13 00-0004 SF 1-1/2" Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3.78 -0.07 1.08	2.30
23 07 13 00-0005 SF 2" Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4.31 -0.08 1.24	3.46
23 07 13 00-0006 SF 3" Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5.04 -0.09 1.44	4.04
23 07 13 00-0007 SF 4" Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5.55 -0.15 1.55	4.38

**23 07 13 00-0008 Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)**

23 07 13 00-0009 SF 1" Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4.01 -0.07 1.15	3.46
23 07 13 00-0010 SF 1-1/2" Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4.64 -0.08 1.33	4.04
23 07 13 00-0011 SF 2" Type 100 (1.0 LB/CF) Fiber Glass FSK Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5.49 -0.10 1.57	4.61

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 07 HVAC Insulation****23 07 13 Duct Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 13 00-0012			<b>Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation</b> (23 07 13 00-0001)		
23 07 13 00-0013	SF		1" Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	4.92	4.61
			<i>For Plain Blanket, With No Facing, Deduct</i>	-0.12	
			<i>For Work In Restricted Working Space, Add</i>	1.39	
23 07 13 00-0014	SF		1-1/2" Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.80	5.18
			<i>For Plain Blanket, With No Facing, Deduct</i>	-0.20	
			<i>For Work In Restricted Working Space, Add</i>	1.59	
23 07 13 00-0015	SF		2" Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	6.75	5.77
			<i>For Plain Blanket, With No Facing, Deduct</i>	-0.24	
			<i>For Work In Restricted Working Space, Add</i>	1.85	
23 07 13 00-0016			<b>3 LB/CF FSK Rigid Fiber Glass Board Insulation</b> (23 07 13)		
			Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fasteners.		
23 07 13 00-0017	SF		1", 3 LB/CF FSK Rigid Fiber Glass Board Insulation .....	10.36	5.90
			<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	24.66	
			<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	18.04	
			<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	14.93	
			<i>For Work In Restricted Working Space, Add</i>	3.07	
23 07 13 00-0018	SF		1-1/2", 3 LB/CF FSK Rigid Fiber Glass Board Insulation .....	12.62	7.18
			<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	30.00	
			<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	21.96	
			<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	18.17	
			<i>For Work In Restricted Working Space, Add</i>	3.74	
23 07 13 00-0019	SF		2", 3 LB/CF FSK Rigid Fiber Glass Board Insulation .....	15.26	8.67
			<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	36.23	
			<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	26.53	
			<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	21.95	
			<i>For Work In Restricted Working Space, Add</i>	4.51	
23 07 13 00-0020			<b>4.253 LB/CF FSK Rigid Fiber Glass Board Insulation</b> (23 07 13)		
			Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fastener.		
23 07 13 00-0021	SF		1", 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation .....	11.65	6.49
			<i>For Work In Restricted Working Space, Add</i>	3.38	
23 07 13 00-0022	SF		1-1/2", 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation .....	14.58	7.90
			<i>For Work In Restricted Working Space, Add</i>	4.11	
23 07 13 00-0023	SF		2", 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation .....	18.08	9.54
			<i>For Work In Restricted Working Space, Add</i>	4.96	
23 07 13 00-0024			<b>Sheet Flexible Elastomeric Insulation</b> (23 07 13)		
23 07 13 00-0025	SF		3/8" Thick Sheet Flexible Elastomeric Insulation .....	10.71	3.11
23 07 13 00-0026	SF		1/2" Thick Sheet Flexible Elastomeric Insulation .....	11.46	3.29
23 07 13 00-0027	SF		3/4" Thick Sheet Flexible Elastomeric Insulation .....	15.35	3.46
23 07 13 00-0028	SF		1" Thick Sheet Flexible Elastomeric Insulation .....	17.82	3.63
23 07 13 00-0029	SF		1-1/2" Thick Sheet Flexible Elastomeric Insulation .....	25.06	3.98
23 07 13 00-0030	SF		2" Thick Sheet Flexible Elastomeric Insulation .....	29.78	4.32
23 07 13 00-0031			<b>Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation</b> (23 07 13)		
			Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0032	SF		1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	16.33	3.29
23 07 13 00-0033	SF		3/4" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	18.03	3.46
23 07 13 00-0034	SF		1" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	20.16	3.63
23 07 13 00-0035	SF		1-1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation.....	32.08	3.98
23 07 13 00-0036	SF		2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation.....	38.16	4.32
23 07 13 00-0037			<b>Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation</b> (23 07 13)		
			Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0038	SF		1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	19.81	3.29
23 07 13 00-0039	SF		3/4" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	21.50	3.46
23 07 13 00-0040	SF		1" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	24.25	3.63
23 07 13 00-0041	SF		1-1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation .....	36.12	3.98
23 07 16			<b>HVAC Equipment Insulation</b> (23 07)		
23 07 16 00-0001			<b>Calcium Silicate Block Insulation</b> (23 07 16)		
23 07 16 00-0002	SF		1" Calcium Silicate Block Insulation .....	15.58	7.10
			<i>For Work In Restricted Working Space, Add</i>	4.25	
23 07 16 00-0003	SF		1-1/2" Calcium Silicate Block Insulation .....	18.06	7.98
			<i>For Work In Restricted Working Space, Add</i>	4.79	
23 07 16 00-0004	SF		2" Calcium Silicate Block Insulation .....	21.27	9.20
			<i>For Work In Restricted Working Space, Add</i>	5.54	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 07 16 00-0005	SF			2-1/2" Calcium Silicate Block Insulation..... <i>For Work In Restricted Working Space, Add</i>	25.12 6.48	10.80
23 07 16 00-0006	SF			3" Calcium Silicate Block Insulation..... <i>For Work In Restricted Working Space, Add</i>	30.80 7.98	13.30

**23 07 19 HVAC Piping Insulation** (23 07)

See CSI section 22 07 19 00-0000 for pipe insulation.

**23 07 19 00-0001 Calcium Silicate Pipe Insulation** (23 07 19)

Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint. See CSI section 22 07 19 00-0558 for protective jacketing.

**23 07 19 00-0002 1" Thick Calcium Silicate Pipe Insulation** (23 07 19 00-0001)

23 07 19 00-0003	LF			1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.57 2.84	3.79
23 07 19 00-0004	LF			3/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.57 2.84	3.79
23 07 19 00-0005	LF			1" Diameter Pipe, 1" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.58 2.88	3.84
23 07 19 00-0006	LF			1-1/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.77 2.93	3.90
23 07 19 00-0007	LF			1-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.93 2.96	3.95
23 07 19 00-0008	LF			2" Diameter Pipe, 1" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.68 3.05	4.06
23 07 19 00-0009	LF			2-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.29 3.17	4.23
23 07 19 00-0010	LF			3" Diameter Pipe, 1" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.84 3.25	4.34
23 07 19 00-0011	LF			4" Diameter Pipe, 1" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.67 3.50	4.66
23 07 19 00-0012	LF			6" Diameter Pipe, 1" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	18.62 3.95	5.26

**23 07 19 00-0013 1-1/2" Thick Calcium Silicate Pipe Insulation** (23 07 19 00-0001)

23 07 19 00-0014	LF			1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.15 2.96	3.95
23 07 19 00-0015	LF			3/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.20 2.96	3.95
23 07 19 00-0016	LF			1" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.10 3.14	4.18
23 07 19 00-0017	LF			1-1/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.57 3.20	4.26
23 07 19 00-0018	LF			1-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.06 3.26	4.34
23 07 19 00-0019	LF			2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.08 3.43	4.58
23 07 19 00-0020	LF			2-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.71 3.50	4.66
23 07 19 00-0021	LF			3" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	17.33 3.61	4.81
23 07 19 00-0022	LF			4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	19.14 3.90	5.20
23 07 19 00-0023	LF			6" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	22.24 4.56	6.08
23 07 19 00-0024	LF			8" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	25.38 4.81	6.41
23 07 19 00-0025	LF			10" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	31.56 5.76	7.68
23 07 19 00-0026	LF			12" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	37.03 6.71	8.94
23 07 19 00-0027	LF			14" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	41.08 7.35	9.80
23 07 19 00-0028	LF			16" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	49.74 9.35	12.47
23 07 19 00-0029	LF			18" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	53.26 9.82	13.09

**23 07 19 00-0030 2" Thick Calcium Silicate Pipe Insulation** (23 07 19 00-0001)

23 07 19 00-0031	LF			1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.02 3.25	4.34
23 07 19 00-0032	LF			3/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.30 3.25	4.34
23 07 19 00-0033	LF			1" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.74 3.29	4.39
23 07 19 00-0034	LF			1-1/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	17.28 3.33	4.45
23 07 19 00-0035	LF			1-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	17.69 3.38	4.50

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 07 HVAC Insulation****23 07 19 HVAC Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0036 LF 2" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....	18.43	4.66
<i>For Work In Restricted Working Space, Add</i>	3.50	
23 07 19 00-0037 LF 2-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....	20.21	4.83
<i>For Work In Restricted Working Space, Add</i>	3.62	
23 07 19 00-0038 LF 3" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....	20.64	4.99
<i>For Work In Restricted Working Space, Add</i>	3.75	
23 07 19 00-0039 LF 4" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....	22.60	5.27
<i>For Work In Restricted Working Space, Add</i>	3.95	
23 07 19 00-0040 LF 6" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....	27.58	6.32
<i>For Work In Restricted Working Space, Add</i>	4.74	
23 07 19 00-0041 LF 8" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....	30.70	6.67
<i>For Work In Restricted Working Space, Add</i>	5.00	
23 07 19 00-0042 LF 10" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....	37.57	7.99
<i>For Work In Restricted Working Space, Add</i>	5.99	
23 07 19 00-0043 LF 12" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....	43.47	9.57
<i>For Work In Restricted Working Space, Add</i>	7.17	
23 07 19 00-0044 LF 14" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....	54.87	13.34
<i>For Work In Restricted Working Space, Add</i>	10.01	
23 07 19 00-0045 LF 16" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....	57.07	13.34
<i>For Work In Restricted Working Space, Add</i>	10.01	
23 07 19 00-0046 LF 18" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....	60.89	14.01
<i>For Work In Restricted Working Space, Add</i>	10.51	
23 07 19 00-0047 LF 20" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....	71.89	16.02
<i>For Work In Restricted Working Space, Add</i>	12.01	
23 07 19 00-0048 LF 24" Diameter Pipe, 2" Thick Calcium Silicate Insulation .....	84.41	19.35
<i>For Work In Restricted Working Space, Add</i>	14.51	
<b>23 07 19 00-0049 2-1/2" Thick Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>		
23 07 19 00-0050 LF 1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	19.03	5.00
<i>For Work In Restricted Working Space, Add</i>	3.75	
23 07 19 00-0051 LF 3/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	19.32	5.00
<i>For Work In Restricted Working Space, Add</i>	3.75	
23 07 19 00-0052 LF 1" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	19.64	5.08
<i>For Work In Restricted Working Space, Add</i>	3.81	
23 07 19 00-0053 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	19.82	5.12
<i>For Work In Restricted Working Space, Add</i>	3.84	
23 07 19 00-0054 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	20.24	5.15
<i>For Work In Restricted Working Space, Add</i>	3.87	
23 07 19 00-0055 LF 2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	21.09	5.38
<i>For Work In Restricted Working Space, Add</i>	4.03	
23 07 19 00-0056 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	23.23	5.56
<i>For Work In Restricted Working Space, Add</i>	4.17	
23 07 19 00-0057 LF 3" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	23.72	5.75
<i>For Work In Restricted Working Space, Add</i>	4.31	
23 07 19 00-0058 LF 4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	26.82	6.07
<i>For Work In Restricted Working Space, Add</i>	4.55	
23 07 19 00-0059 LF 6" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	32.74	6.89
<i>For Work In Restricted Working Space, Add</i>	5.17	
23 07 19 00-0060 LF 8" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	37.19	7.69
<i>For Work In Restricted Working Space, Add</i>	5.76	
23 07 19 00-0061 LF 10" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	44.11	8.86
<i>For Work In Restricted Working Space, Add</i>	6.65	
23 07 19 00-0062 LF 12" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	52.02	11.01
<i>For Work In Restricted Working Space, Add</i>	8.26	
23 07 19 00-0063 LF 14" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	57.38	12.03
<i>For Work In Restricted Working Space, Add</i>	9.02	
23 07 19 00-0064 LF 16" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	70.43	15.37
<i>For Work In Restricted Working Space, Add</i>	11.53	
23 07 19 00-0065 LF 18" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	74.28	16.14
<i>For Work In Restricted Working Space, Add</i>	12.10	
23 07 19 00-0066 LF 20" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	85.91	18.45
<i>For Work In Restricted Working Space, Add</i>	13.84	
23 07 19 00-0067 LF 24" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation .....	101.54	22.29
<i>For Work In Restricted Working Space, Add</i>	16.72	
<b>23 07 19 00-0068 3" Thick Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>		
23 07 19 00-0069 LF 1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	23.23	5.54
<i>For Work In Restricted Working Space, Add</i>	4.15	
23 07 19 00-0070 LF 3/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	23.30	5.54
<i>For Work In Restricted Working Space, Add</i>	4.15	
23 07 19 00-0071 LF 1" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	23.52	5.60
<i>For Work In Restricted Working Space, Add</i>	4.20	
23 07 19 00-0072 LF 1-1/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	23.74	5.63
<i>For Work In Restricted Working Space, Add</i>	4.22	
23 07 19 00-0073 LF 1-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	23.97	5.69
<i>For Work In Restricted Working Space, Add</i>	4.27	
23 07 19 00-0074 LF 2" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	24.81	5.90
<i>For Work In Restricted Working Space, Add</i>	4.43	
23 07 19 00-0075 LF 2-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	27.08	6.11
<i>For Work In Restricted Working Space, Add</i>	4.58	
23 07 19 00-0076 LF 3" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	27.72	6.32
<i>For Work In Restricted Working Space, Add</i>	4.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0077 LF 4" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	31.91	6.68
<i>For Work In Restricted Working Space, Add</i>	5.01	
23 07 19 00-0078 LF 6" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	37.51	7.58
<i>For Work In Restricted Working Space, Add</i>	5.69	
23 07 19 00-0079 LF 8" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	43.23	8.45
<i>For Work In Restricted Working Space, Add</i>	6.34	
23 07 19 00-0080 LF 10" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	51.06	9.75
<i>For Work In Restricted Working Space, Add</i>	7.31	
23 07 19 00-0081 LF 12" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	59.82	12.12
<i>For Work In Restricted Working Space, Add</i>	9.09	
23 07 19 00-0082 LF 14" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	66.19	13.23
<i>For Work In Restricted Working Space, Add</i>	9.92	
23 07 19 00-0083 LF 16" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	78.85	16.90
<i>For Work In Restricted Working Space, Add</i>	12.68	
23 07 19 00-0084 LF 18" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	84.55	17.75
<i>For Work In Restricted Working Space, Add</i>	13.31	
23 07 19 00-0085 LF 20" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	98.52	20.30
<i>For Work In Restricted Working Space, Add</i>	15.22	
23 07 19 00-0086 LF 24" Diameter Pipe, 3" Thick Calcium Silicate Insulation .....	117.04	24.52
<i>For Work In Restricted Working Space, Add</i>	18.39	
<b>23 07 19 00-0087 3-1/2" Thick Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>		
23 07 19 00-0088 LF 1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	28.63	6.07
<i>For Work In Restricted Working Space, Add</i>	4.55	
23 07 19 00-0089 LF 3/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	29.48	6.07
<i>For Work In Restricted Working Space, Add</i>	4.55	
23 07 19 00-0090 LF 1" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	29.58	6.11
<i>For Work In Restricted Working Space, Add</i>	4.58	
23 07 19 00-0091 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	29.68	6.14
<i>For Work In Restricted Working Space, Add</i>	4.61	
23 07 19 00-0092 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	30.50	6.22
<i>For Work In Restricted Working Space, Add</i>	4.67	
23 07 19 00-0093 LF 2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	32.20	6.43
<i>For Work In Restricted Working Space, Add</i>	4.82	
23 07 19 00-0094 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	34.65	6.66
<i>For Work In Restricted Working Space, Add</i>	5.00	
23 07 19 00-0095 LF 3" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	35.87	6.89
<i>For Work In Restricted Working Space, Add</i>	5.17	
23 07 19 00-0096 LF 4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	40.31	7.28
<i>For Work In Restricted Working Space, Add</i>	5.47	
23 07 19 00-0097 LF 6" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	45.12	8.27
<i>For Work In Restricted Working Space, Add</i>	6.20	
23 07 19 00-0098 LF 8" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	54.10	9.21
<i>For Work In Restricted Working Space, Add</i>	6.91	
23 07 19 00-0099 LF 10" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	65.19	10.63
<i>For Work In Restricted Working Space, Add</i>	7.98	
23 07 19 00-0100 LF 12" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	79.26	13.22
<i>For Work In Restricted Working Space, Add</i>	9.92	
23 07 19 00-0101 LF 14" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	84.00	14.43
<i>For Work In Restricted Working Space, Add</i>	10.82	
23 07 19 00-0102 LF 16" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	99.53	18.45
<i>For Work In Restricted Working Space, Add</i>	13.83	
23 07 19 00-0103 LF 18" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	112.55	19.36
<i>For Work In Restricted Working Space, Add</i>	14.53	
23 07 19 00-0104 LF 20" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation .....	122.67	22.15
<i>For Work In Restricted Working Space, Add</i>	16.61	
<b>23 07 19 00-0105 4" Thick Calcium Silicate Pipe Insulation (23 07 19 00-0001)</b>		
23 07 19 00-0106 LF 1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	34.94	6.73
<i>For Work In Restricted Working Space, Add</i>	5.05	
23 07 19 00-0107 LF 3/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	34.96	6.73
<i>For Work In Restricted Working Space, Add</i>	5.05	
23 07 19 00-0108 LF 1" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	35.25	6.85
<i>For Work In Restricted Working Space, Add</i>	5.14	
23 07 19 00-0109 LF 1-1/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	36.12	6.93
<i>For Work In Restricted Working Space, Add</i>	5.20	
23 07 19 00-0110 LF 1-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	38.07	7.15
<i>For Work In Restricted Working Space, Add</i>	5.36	
23 07 19 00-0111 LF 2" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	38.92	7.38
<i>For Work In Restricted Working Space, Add</i>	5.53	
23 07 19 00-0112 LF 2-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	41.96	7.49
<i>For Work In Restricted Working Space, Add</i>	5.62	
23 07 19 00-0113 LF 3" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	43.23	7.76
<i>For Work In Restricted Working Space, Add</i>	5.82	
23 07 19 00-0114 LF 4" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	48.46	8.19
<i>For Work In Restricted Working Space, Add</i>	6.14	
23 07 19 00-0115 LF 6" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	55.89	9.29
<i>For Work In Restricted Working Space, Add</i>	6.97	
23 07 19 00-0116 LF 8" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	65.89	10.37
<i>For Work In Restricted Working Space, Add</i>	7.77	
23 07 19 00-0117 LF 10" Diameter Pipe, 4" Thick Calcium Silicate Insulation .....	75.90	11.98
<i>For Work In Restricted Working Space, Add</i>	8.98	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)**

**23 07 HVAC Insulation**

**23 07 19 HVAC Piping Insulation**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0118 LF 12" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	87.66 11.15	14.87
23 07 19 00-0119 LF 14" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	93.64 12.18	16.25
23 07 19 00-0120 LF 16" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	112.39 15.58	20.77
23 07 19 00-0121 LF 18" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	119.22 16.33	21.76
23 07 19 00-0122 LF 20" Diameter Pipe, 4" Thick Calcium Silicate Insulation ..... <i>For Work In Restricted Working Space, Add</i>	132.74 18.68	24.91
<b>23 07 19 00-0123 Weather-Protective Coating For Calcium Silicate Pipe Insulation</b> <small>(23 07 19 00-0001)</small>		
23 07 19 00-0124 SF 1/4" Thick (Two 1/8" Coats), Weatherproof Coating Over Glass Cloth Mesh (Insulkote ET) ..... <i>For Work In Restricted Working Space, Add</i>	4.84 1.07	

**23 20 HVAC Piping And Pumps** (23)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

**23 21 Hydronic Piping And Pumps** (23 20)

**23 21 13 Hydronic Piping** (23 21)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

**23 21 13 23 Aboveground Hydronic Piping** (23 21 13)

**23 21 13 23-0001 Threaded Black Steel Pipe** (23 21 13 23)

**23 21 13 23-0002 Threaded Black Steel Pipe Assemblies** (23 21 13 23-0001)

Note: ASTM A-53. Threaded and coupled. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.

23 21 13 23-0003 LF 1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.83 4.03 4.47	4.33
23 21 13 23-0004 LF 3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.13 4.39 4.68	4.65
23 21 13 23-0005 LF 1" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.69 4.82 4.93	5.09
23 21 13 23-0006 LF 1-1/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.92 5.77 5.32	5.31
23 21 13 23-0007 LF 1-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.94 6.10 5.39	6.28
23 21 13 23-0008 LF 2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	29.25 7.29 6.08	7.58
23 21 13 23-0009 LF 2-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	41.12 10.78 7.54	8.98
23 21 13 23-0010 LF 3" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	51.70 13.69 9.24	12.01
23 21 13 23-0011 LF 4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.54 19.33 9.34	12.94
23 21 13 23-0012 LF 5" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	108.29 33.05 11.13	16.53





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0013 LF 6" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly ..... 127.30		19.55
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	39.10	
For Work In Restricted Working Space, Add	12.61	
<b>23 21 13 23-0014 Threaded Black Steel Pipe And Fittings</b> <small>(23 21 13 23-0001)</small>		
Note: ASTM A-53. Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
<b>23 21 13 23-0015 Threaded And Coupled, Black Steel Piping</b> <small>(23 21 13 23-0014)</small>		
Note: ASTM A-53. Includes coupling.		
23 21 13 23-0016 LF 3/8" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 6.35		2.70
For Schedule 80 Pipe, Add	0.94	
For Work In Restricted Working Space, Add	1.64	
23 21 13 23-0017 LF 1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 8.03		4.33
For Schedule 80 Pipe, Add	1.32	
For Work In Restricted Working Space, Add	1.97	
23 21 13 23-0018 LF 3/4" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 8.89		4.65
For Schedule 80 Pipe, Add	1.56	
For Work In Restricted Working Space, Add	2.09	
23 21 13 23-0019 LF 1" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 10.11		5.09
For Schedule 80 Pipe, Add	1.90	
For Work In Restricted Working Space, Add	2.27	
23 21 13 23-0020 LF 1-1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe ..... 11.42		5.31
For Schedule 80 Pipe, Add	2.33	
For Work In Restricted Working Space, Add	2.41	
23 21 13 23-0021 LF 1-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe ..... 13.48		6.28
For Schedule 80 Pipe, Add	2.77	
For Work In Restricted Working Space, Add	2.82	
23 21 13 23-0022 LF 2" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 16.73		7.58
For Schedule 80 Pipe, Add	3.54	
For Work In Restricted Working Space, Add	3.42	
23 21 13 23-0023 LF 2-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe ..... 21.95		8.98
For Schedule 80 Pipe, Add	5.14	
For Work In Restricted Working Space, Add	4.06	
23 21 13 23-0024 LF 3" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 29.06		12.01
For Schedule 80 Pipe, Add	6.76	
For Work In Restricted Working Space, Add	5.41	
23 21 13 23-0025 LF 4" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 35.92		12.94
For Schedule 80 Pipe, Add	9.36	
For Work In Restricted Working Space, Add	5.84	
23 21 13 23-0026 LF 5" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 46.64		16.53
For Schedule 80 Pipe, Add	12.33	
For Work In Restricted Working Space, Add	7.43	
23 21 13 23-0027 LF 6" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 58.15		19.55
For Schedule 80 Pipe, Add	15.92	
For Work In Restricted Working Space, Add	8.78	
23 21 13 23-0028 LF 8" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 78.18		23.63
For Schedule 80 Pipe, Add	22.81	
For Work In Restricted Working Space, Add	10.61	
23 21 13 23-0029 LF 10" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 103.83		28.78
For Schedule 80 Pipe, Add	31.60	
For Work In Restricted Working Space, Add	12.97	
23 21 13 23-0030 LF 12" Schedule 40, Threaded And Coupled, Black Steel Pipe..... 138.22		37.83
For Schedule 80 Pipe, Add	42.35	
For Work In Restricted Working Space, Add	17.02	
<b>23 21 13 23-0031 Black Malleable Iron 90 Degree Elbows</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0032 EA 3/8", 150 LB, Black Malleable Iron 90 Degree Elbow..... 28.89		12.01
For 300 LB Rating, Add	13.06	
For Standard Weight Cast Iron Fittings, Add	0.08	
For Work In Restricted Working Space, Add	7.22	
23 21 13 23-0033 EA 1/2", 150 LB, Black Malleable Iron 90 Degree Elbow..... 32.22		19.27
For 300 LB Rating, Add	9.80	
For Standard Weight Cast Iron Fittings, Add	0.05	
For Work In Restricted Working Space, Add	8.66	
23 21 13 23-0034 EA 3/4", 150 LB, Black Malleable Iron 90 Degree Elbow..... 36.35		21.54
For 300 LB Rating, Add	11.66	
For Standard Weight Cast Iron Fittings, Add	0.06	
For Work In Restricted Working Space, Add	9.69	
23 21 13 23-0035 EA 1", 150 LB, Black Malleable Iron 90 Degree Elbow ..... 43.10		24.03
For 300 LB Rating, Add	19.01	
For Standard Weight Cast Iron Fittings, Add	0.11	
For Work In Restricted Working Space, Add	10.82	
23 21 13 23-0036 EA 1-1/4", 150 LB, Black Malleable Iron 90 Degree Elbow ..... 52.43		27.28
For 300 LB Rating, Add	30.27	
For Standard Weight Cast Iron Fittings, Add	0.19	
For Work In Restricted Working Space, Add	12.25	
23 21 13 23-0037 EA 1-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow ..... 61.29		30.73
For 300 LB Rating, Add	39.34	
For Standard Weight Cast Iron Fittings, Add	0.24	
For Work In Restricted Working Space, Add	13.82	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0038	EA	2", 150 LB, Black Malleable Iron 90 Degree Elbow.....	84.79	39.07
			<i>For 300 LB Rating, Add</i>	66.61	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.42	
			<i>For Work In Restricted Working Space, Add</i>	17.55	
23 21	13 23-0039	EA	2-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow .....	145.14	57.79
			<i>For 300 LB Rating, Add</i>	145.74	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.94	
			<i>For Work In Restricted Working Space, Add</i>	25.97	
23 21	13 23-0040	EA	3", 150 LB, Black Malleable Iron 90 Degree Elbow.....	199.61	75.98
			<i>For 300 LB Rating, Add</i>	212.49	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.37	
			<i>For Work In Restricted Working Space, Add</i>	34.18	
23 21	13 23-0041	EA	4", 150 LB, Black Malleable Iron 90 Degree Elbow.....	297.49	75.65
			<i>For 300 LB Rating, Add</i>	448.53	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	2.94	
			<i>For Work In Restricted Working Space, Add</i>	34.03	
23 21	13 23-0042	EA	5", 150 LB, Black Malleable Iron 90 Degree Elbow.....	656.20	78.95
			<i>For 300 LB Rating, Add</i>	1,297.87	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	8.61	
			<i>For Work In Restricted Working Space, Add</i>	35.51	
23 21	13 23-0043	EA	6", 150 LB, Black Malleable Iron 90 Degree Elbow.....	745.01	82.55
			<i>For 300 LB Rating, Add</i>	1,498.43	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	9.94	
			<i>For Work In Restricted Working Space, Add</i>	37.13	
<b>23 21</b>	<b>13 23-0044</b>		<b>Black Malleable Iron Reducing 90 Degree Elbows</b> <small>(23 21 13 23-0014)</small>		
23 21	13 23-0045	EA	1/2" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	32.83	17.64
			<i>For 300 LB Rating, Add</i>	16.90	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
			<i>For Work In Restricted Working Space, Add</i>	7.94	
23 21	13 23-0046	EA	3/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	37.15	20.34
			<i>For 300 LB Rating, Add</i>	17.60	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.11	
			<i>For Work In Restricted Working Space, Add</i>	9.17	
23 21	13 23-0047	EA	3/4" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	37.37	18.83
			<i>For 300 LB Rating, Add</i>	23.75	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.15	
			<i>For Work In Restricted Working Space, Add</i>	8.45	
23 21	13 23-0048	EA	1" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	42.63	22.83
			<i>For 300 LB Rating, Add</i>	22.31	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.14	
			<i>For Work In Restricted Working Space, Add</i>	10.26	
23 21	13 23-0049	EA	1" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	41.58	21.65
			<i>For 300 LB Rating, Add</i>	23.81	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.15	
			<i>For Work In Restricted Working Space, Add</i>	9.74	
23 21	13 23-0050	EA	1" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	48.00	20.02
			<i>For 300 LB Rating, Add</i>	44.84	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.29	
			<i>For Work In Restricted Working Space, Add</i>	9.02	
23 21	13 23-0051	EA	1-1/4" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	52.64	25.65
			<i>For 300 LB Rating, Add</i>	36.36	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.23	
			<i>For Work In Restricted Working Space, Add</i>	11.54	
23 21	13 23-0052	EA	1-1/4" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	52.40	24.35
			<i>For 300 LB Rating, Add</i>	40.19	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.25	
			<i>For Work In Restricted Working Space, Add</i>	10.97	
23 21	13 23-0053	EA	1-1/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	53.34	23.27
			<i>For 300 LB Rating, Add</i>	46.49	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.30	
			<i>For Work In Restricted Working Space, Add</i>	10.45	
23 21	13 23-0054	EA	1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	63.46	29.00
			<i>For 300 LB Rating, Add</i>	50.65	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.32	
			<i>For Work In Restricted Working Space, Add</i>	13.03	
23 21	13 23-0055	EA	1-1/2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	61.08	27.38
			<i>For 300 LB Rating, Add</i>	50.51	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.32	
			<i>For Work In Restricted Working Space, Add</i>	12.32	
23 21	13 23-0056	EA	1-1/2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	62.09	26.08
			<i>For 300 LB Rating, Add</i>	57.33	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.37	
			<i>For Work In Restricted Working Space, Add</i>	11.75	
23 21	13 23-0057	EA	2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	81.27	34.84
			<i>For 300 LB Rating, Add</i>	72.74	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.46	
			<i>For Work In Restricted Working Space, Add</i>	15.68	
23 21	13 23-0058	EA	2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	82.63	33.12
			<i>For 300 LB Rating, Add</i>	82.08	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.53	
			<i>For Work In Restricted Working Space, Add</i>	14.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0059 EA 2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	80.25	31.50
<i>For 300 LB Rating, Add</i>	81.94	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.53	
<i>For Work In Restricted Working Space, Add</i>	14.19	
23 21 13 23-0060 EA 2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	80.35	30.30
<i>For 300 LB Rating, Add</i>	86.60	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.56	
<i>For Work In Restricted Working Space, Add</i>	13.62	
23 21 13 23-0061 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	152.13	48.38
<i>For 300 LB Rating, Add</i>	195.37	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.27	
<i>For Work In Restricted Working Space, Add</i>	21.76	
23 21 13 23-0062 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	150.60	44.26
<i>For 300 LB Rating, Add</i>	206.25	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.35	
<i>For Work In Restricted Working Space, Add</i>	19.90	
23 21 13 23-0063 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	249.21	66.88
<i>For 300 LB Rating, Add</i>	363.52	
<i>For Standard Weight Cast Iron Fittings, Add</i>	2.38	
<i>For Work In Restricted Working Space, Add</i>	30.08	
23 21 13 23-0064 EA 3" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	214.88	57.47
<i>For 300 LB Rating, Add</i>	313.98	
<i>For Standard Weight Cast Iron Fittings, Add</i>	2.06	
<i>For Work In Restricted Working Space, Add</i>	25.86	
23 21 13 23-0065 EA 4" x 3", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow .....	362.48	71.95
<i>For 300 LB Rating, Add</i>	617.44	
<i>For Standard Weight Cast Iron Fittings, Add</i>	4.07	
<i>For Work In Restricted Working Space, Add</i>	32.37	
<b>23 21 13 23-0066 Black Malleable Iron 45 Degree Elbows</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0067 EA 3/8", 150 LB, Black Malleable Iron 45 Degree Elbow.....	31.34	12.01
<i>For 300 LB Rating, Add</i>	18.94	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.12	
<i>For Work In Restricted Working Space, Add</i>	7.22	
23 21 13 23-0068 EA 1/2", 150 LB, Black Malleable Iron 45 Degree Elbow.....	34.40	19.27
<i>For 300 LB Rating, Add</i>	15.03	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.09	
<i>For Work In Restricted Working Space, Add</i>	8.66	
23 21 13 23-0069 EA 3/4", 150 LB, Black Malleable Iron 45 Degree Elbow.....	39.15	21.54
<i>For 300 LB Rating, Add</i>	18.38	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.11	
<i>For Work In Restricted Working Space, Add</i>	9.69	
23 21 13 23-0070 EA 1", 150 LB, Black Malleable Iron 45 Degree Elbow .....	44.70	24.03
<i>For 300 LB Rating, Add</i>	22.85	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.14	
<i>For Work In Restricted Working Space, Add</i>	10.82	
23 21 13 23-0071 EA 1-1/4", 150 LB, Black Malleable Iron 45 Degree Elbow .....	56.09	27.28
<i>For 300 LB Rating, Add</i>	39.05	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.24	
<i>For Work In Restricted Working Space, Add</i>	12.25	
23 21 13 23-0072 EA 1-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow .....	64.92	30.73
<i>For 300 LB Rating, Add</i>	48.05	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.30	
<i>For Work In Restricted Working Space, Add</i>	13.82	
23 21 13 23-0073 EA 2", 150 LB, Black Malleable Iron 45 Degree Elbow .....	87.04	39.07
<i>For 300 LB Rating, Add</i>	72.01	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.46	
<i>For Work In Restricted Working Space, Add</i>	17.55	
23 21 13 23-0074 EA 2-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow .....	169.15	57.79
<i>For 300 LB Rating, Add</i>	203.36	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.32	
<i>For Work In Restricted Working Space, Add</i>	25.97	
23 21 13 23-0075 EA 3", 150 LB, Black Malleable Iron 45 Degree Elbow .....	221.17	75.98
<i>For 300 LB Rating, Add</i>	264.24	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.72	
<i>For Work In Restricted Working Space, Add</i>	34.18	
23 21 13 23-0076 EA 4", 150 LB, Black Malleable Iron 45 Degree Elbow .....	323.75	75.65
<i>For 300 LB Rating, Add</i>	511.55	
<i>For Standard Weight Cast Iron Fittings, Add</i>	3.36	
<i>For Work In Restricted Working Space, Add</i>	34.03	
23 21 13 23-0077 EA 5", 150 LB, Black Malleable Iron 45 Degree Elbow .....	949.13	78.95
<i>For 300 LB Rating, Add</i>	2,000.90	
<i>For Standard Weight Cast Iron Fittings, Add</i>	13.29	
<i>For Work In Restricted Working Space, Add</i>	35.51	
23 21 13 23-0078 EA 6", 150 LB, Black Malleable Iron 45 Degree Elbow .....	973.71	82.55
<i>For 300 LB Rating, Add</i>	2,047.31	
<i>For Standard Weight Cast Iron Fittings, Add</i>	13.60	
<i>For Work In Restricted Working Space, Add</i>	37.13	

**23 21 13 23-0079 Black Malleable Iron Tees** (23 21 13 23-0014)

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0080	EA	3/8", 150 LB, Black Malleable Iron Tee.....	37.08	15.05
			<i>For 300 LB Rating, Add</i>	18.65	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.11	
			<i>For Work In Restricted Working Space, Add</i>	9.02	
23 21	13 23-0081	EA	1/2", 150 LB, Black Malleable Iron Tee.....	40.57	24.03
			<i>For 300 LB Rating, Add</i>	12.94	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.07	
			<i>For Work In Restricted Working Space, Add</i>	10.82	
23 21	13 23-0082	EA	3/4", 150 LB, Black Malleable Iron Tee.....	48.06	27.82
			<i>For 300 LB Rating, Add</i>	17.93	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
			<i>For Work In Restricted Working Space, Add</i>	12.49	
23 21	13 23-0083	EA	1", 150 LB, Black Malleable Iron Tee.....	60.22	32.79
			<i>For 300 LB Rating, Add</i>	29.40	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.18	
			<i>For Work In Restricted Working Space, Add</i>	14.76	
23 21	13 23-0084	EA	1-1/4", 150 LB, Black Malleable Iron Tee.....	76.34	39.07
			<i>For 300 LB Rating, Add</i>	46.33	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.29	
			<i>For Work In Restricted Working Space, Add</i>	17.55	
23 21	13 23-0085	EA	1-1/2", 150 LB, Black Malleable Iron Tee.....	92.01	46.53
			<i>For 300 LB Rating, Add</i>	57.45	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.36	
			<i>For Work In Restricted Working Space, Add</i>	20.95	
23 21	13 23-0086	EA	2", 150 LB, Black Malleable Iron Tee.....	124.40	57.79
			<i>For 300 LB Rating, Add</i>	95.96	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.61	
			<i>For Work In Restricted Working Space, Add</i>	25.97	
23 21	13 23-0087	EA	2-1/2", 150 LB, Black Malleable Iron Tee.....	195.46	75.98
			<i>For 300 LB Rating, Add</i>	202.53	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.30	
			<i>For Work In Restricted Working Space, Add</i>	34.18	
23 21	13 23-0088	EA	3", 150 LB, Black Malleable Iron Tee.....	255.39	90.26
			<i>For 300 LB Rating, Add</i>	296.36	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.92	
			<i>For Work In Restricted Working Space, Add</i>	40.59	
23 21	13 23-0089	EA	4", 150 LB, Black Malleable Iron Tee.....	433.60	95.58
			<i>For 300 LB Rating, Add</i>	705.32	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	4.64	
			<i>For Work In Restricted Working Space, Add</i>	42.99	
23 21	13 23-0090	EA	5", 150 LB, Black Malleable Iron Tee.....	1,049.86	113.48
			<i>For 300 LB Rating, Add</i>	2,121.47	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	14.08	
			<i>For Work In Restricted Working Space, Add</i>	51.05	
23 21	13 23-0091	EA	6", 150 LB, Black Malleable Iron Tee.....	1,138.54	129.72
			<i>For 300 LB Rating, Add</i>	2,277.44	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	15.11	
			<i>For Work In Restricted Working Space, Add</i>	58.34	
23 21	13 23-0092		<b>Black Malleable Iron Reducing Tees</b> <small>(23 21 13 23-0014)</small>		
23 21	13 23-0093	EA	1/2", 150 LB, Black Malleable Iron Reducing Tee.....	43.71	24.03
			<i>For 300 LB Rating, Add</i>	20.48	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.12	
			<i>For Work In Restricted Working Space, Add</i>	10.82	
23 21	13 23-0094	EA	3/4", 150 LB, Black Malleable Iron Reducing Tee.....	51.58	27.82
			<i>For 300 LB Rating, Add</i>	26.38	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.16	
			<i>For Work In Restricted Working Space, Add</i>	12.49	
23 21	13 23-0095	EA	1", 150 LB, Black Malleable Iron Reducing Tee.....	61.75	32.79
			<i>For 300 LB Rating, Add</i>	33.07	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.20	
			<i>For Work In Restricted Working Space, Add</i>	14.76	
23 21	13 23-0096	EA	1-1/4", 150 LB, Black Malleable Iron Reducing Tee.....	83.18	39.07
			<i>For 300 LB Rating, Add</i>	62.74	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.39	
			<i>For Work In Restricted Working Space, Add</i>	17.55	
23 21	13 23-0097	EA	1-1/2", 150 LB, Black Malleable Iron Reducing Tee.....	97.16	46.53
			<i>For 300 LB Rating, Add</i>	69.81	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.44	
			<i>For Work In Restricted Working Space, Add</i>	20.95	
23 21	13 23-0098	EA	2", 150 LB, Black Malleable Iron Reducing Tee.....	126.28	57.79
			<i>For 300 LB Rating, Add</i>	100.47	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.64	
			<i>For Work In Restricted Working Space, Add</i>	25.97	
23 21	13 23-0099	EA	2-1/2", 150 LB, Black Malleable Iron Reducing Tee.....	237.61	75.98
			<i>For 300 LB Rating, Add</i>	303.69	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.98	
			<i>For Work In Restricted Working Space, Add</i>	34.18	
23 21	13 23-0100	EA	3", 150 LB, Black Malleable Iron Reducing Tee.....	276.96	90.26
			<i>For 300 LB Rating, Add</i>	348.13	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	2.27	
			<i>For Work In Restricted Working Space, Add</i>	40.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0101 EA 4", 150 LB, Black Malleable Iron Reducing Tee.....	486.87	95.58
<i>For 300 LB Rating, Add</i>	833.17	
<i>For Standard Weight Cast Iron Fittings, Add</i>	5.50	
<i>For Work In Restricted Working Space, Add</i>	42.99	
23 21 13 23-0102 EA 5", 150 LB, Black Malleable Iron Reducing Tee.....	967.08	113.48
<i>For 300 LB Rating, Add</i>	1,922.79	
<i>For Standard Weight Cast Iron Fittings, Add</i>	12.75	
<i>For Work In Restricted Working Space, Add</i>	51.05	
23 21 13 23-0103 EA 6", 150 LB, Black Malleable Iron Reducing Tee.....	1,098.35	129.72
<i>For 300 LB Rating, Add</i>	2,180.98	
<i>For Standard Weight Cast Iron Fittings, Add</i>	14.46	
<i>For Work In Restricted Working Space, Add</i>	58.34	
<b>23 21 13 23-0104 Black Malleable Iron Couplings</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0105 EA 3/8", 150 LB, Black Malleable Iron Coupling.....	30.07	12.01
<i>For 300 LB Rating, Add</i>	15.89	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
<i>For Work In Restricted Working Space, Add</i>	7.22	
23 21 13 23-0106 EA 1/2", 150 LB, Black Malleable Iron Coupling.....	33.50	19.27
<i>For 300 LB Rating, Add</i>	12.87	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.07	
<i>For Work In Restricted Working Space, Add</i>	8.66	
23 21 13 23-0107 EA 3/4", 150 LB, Black Malleable Iron Coupling.....	37.73	21.54
<i>For 300 LB Rating, Add</i>	14.97	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.09	
<i>For Work In Restricted Working Space, Add</i>	9.69	
23 21 13 23-0108 EA 1", 150 LB, Black Malleable Iron Coupling.....	44.21	24.03
<i>For 300 LB Rating, Add</i>	21.68	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.13	
<i>For Work In Restricted Working Space, Add</i>	10.82	
23 21 13 23-0109 EA 1-1/4", 150 LB, Black Malleable Iron Coupling.....	51.37	27.28
<i>For 300 LB Rating, Add</i>	27.72	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.17	
<i>For Work In Restricted Working Space, Add</i>	12.25	
23 21 13 23-0110 EA 1-1/2", 150 LB, Black Malleable Iron Coupling.....	60.27	30.73
<i>For 300 LB Rating, Add</i>	36.89	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.23	
<i>For Work In Restricted Working Space, Add</i>	13.82	
23 21 13 23-0111 EA 2", 150 LB, Black Malleable Iron Coupling.....	79.59	39.07
<i>For 300 LB Rating, Add</i>	54.13	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.34	
<i>For Work In Restricted Working Space, Add</i>	17.55	
23 21 13 23-0112 EA 2-1/2", 150 LB, Black Malleable Iron Coupling.....	144.76	57.79
<i>For 300 LB Rating, Add</i>	144.83	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.93	
<i>For Work In Restricted Working Space, Add</i>	25.97	
23 21 13 23-0113 EA 3", 150 LB, Black Malleable Iron Coupling.....	192.58	75.98
<i>For 300 LB Rating, Add</i>	195.62	
<i>For Standard Weight Cast Iron Fittings, Add</i>	1.26	
<i>For Work In Restricted Working Space, Add</i>	34.18	
23 21 13 23-0114 EA 4", 150 LB, Black Malleable Iron Coupling.....	271.86	75.65
<i>For 300 LB Rating, Add</i>	387.01	
<i>For Standard Weight Cast Iron Fittings, Add</i>	2.53	
<i>For Work In Restricted Working Space, Add</i>	34.03	
23 21 13 23-0115 EA 5", 150 LB, Black Malleable Iron Coupling.....	564.45	78.95
<i>For 300 LB Rating, Add</i>	1,077.67	
<i>For Standard Weight Cast Iron Fittings, Add</i>	7.14	
<i>For Work In Restricted Working Space, Add</i>	35.51	
23 21 13 23-0116 EA 6", 150 LB, Black Malleable Iron Coupling.....	631.95	82.55
<i>For 300 LB Rating, Add</i>	1,227.08	
<i>For Standard Weight Cast Iron Fittings, Add</i>	8.13	
<i>For Work In Restricted Working Space, Add</i>	37.13	
<b>23 21 13 23-0117 Black Malleable Iron Reducing Couplings</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0118 EA 1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	34.62	19.27
<i>For 300 LB Rating, Add</i>	15.56	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.09	
<i>For Work In Restricted Working Space, Add</i>	8.66	
23 21 13 23-0119 EA 3/4", 150 LB, Black Malleable Iron Reducing Coupling.....	38.39	21.54
<i>For 300 LB Rating, Add</i>	16.55	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.10	
<i>For Work In Restricted Working Space, Add</i>	9.69	
23 21 13 23-0120 EA 1", 150 LB, Black Malleable Iron Reducing Coupling.....	45.57	24.03
<i>For 300 LB Rating, Add</i>	24.94	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.15	
<i>For Work In Restricted Working Space, Add</i>	10.82	
23 21 13 23-0121 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Coupling.....	53.04	27.28
<i>For 300 LB Rating, Add</i>	31.73	
<i>For Standard Weight Cast Iron Fittings, Add</i>	0.20	
<i>For Work In Restricted Working Space, Add</i>	12.25	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0122	EA	1-1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	61.47	30.73
			<i>For 300 LB Rating, Add</i>	39.77	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.25	
			<i>For Work In Restricted Working Space, Add</i>	13.82	
23 21	13 23-0123	EA	2", 150 LB, Black Malleable Iron Reducing Coupling.....	80.84	39.07
			<i>For 300 LB Rating, Add</i>	57.13	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.36	
			<i>For Work In Restricted Working Space, Add</i>	17.55	
23 21	13 23-0124	EA	2-1/2", 150 LB, Black Malleable Iron Reducing Coupling.....	152.61	57.79
			<i>For 300 LB Rating, Add</i>	163.67	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.06	
			<i>For Work In Restricted Working Space, Add</i>	25.97	
23 21	13 23-0125	EA	3", 150 LB, Black Malleable Iron Reducing Coupling.....	194.19	75.98
			<i>For 300 LB Rating, Add</i>	199.48	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.28	
			<i>For Work In Restricted Working Space, Add</i>	34.18	
23 21	13 23-0126	EA	4", 150 LB, Black Malleable Iron Reducing Coupling.....	274.33	75.65
			<i>For 300 LB Rating, Add</i>	392.94	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	2.57	
			<i>For Work In Restricted Working Space, Add</i>	34.03	
23 21	13 23-0127	EA	5", 150 LB, Black Malleable Iron Reducing Coupling.....	480.01	78.95
			<i>For 300 LB Rating, Add</i>	875.01	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	5.79	
			<i>For Work In Restricted Working Space, Add</i>	35.51	
23 21	13 23-0128	EA	6", 150 LB, Black Malleable Iron Reducing Coupling.....	588.24	82.55
			<i>For 300 LB Rating, Add</i>	1,122.18	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	7.43	
			<i>For Work In Restricted Working Space, Add</i>	37.13	
23 21	13 23-0129		<b>Black Malleable Iron Caps</b> <small>(23 21 13 23-0014)</small>		
23 21	13 23-0130	EA	1/2", 150 LB, Black Malleable Iron Cap.....	16.92	8.98
			<i>For 300 LB Rating, Add</i>	8.95	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.05	
			<i>For Work In Restricted Working Space, Add</i>	4.06	
23 21	13 23-0131	EA	3/4", 150 LB, Black Malleable Iron Cap.....	19.02	9.63
			<i>For 300 LB Rating, Add</i>	11.88	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.07	
			<i>For Work In Restricted Working Space, Add</i>	4.33	
23 21	13 23-0132	EA	1", 150 LB, Black Malleable Iron Cap.....	22.20	11.15
			<i>For 300 LB Rating, Add</i>	14.32	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.09	
			<i>For Work In Restricted Working Space, Add</i>	5.00	
23 21	13 23-0133	EA	1-1/4", 150 LB, Black Malleable Iron Cap.....	25.35	12.01
			<i>For 300 LB Rating, Add</i>	18.63	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.12	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
23 21	13 23-0134	EA	1-1/2", 150 LB, Black Malleable Iron Cap.....	28.09	12.01
			<i>For 300 LB Rating, Add</i>	25.20	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.16	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
23 21	13 23-0135	EA	2", 150 LB, Black Malleable Iron Cap.....	37.96	15.48
			<i>For 300 LB Rating, Add</i>	36.63	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.23	
			<i>For Work In Restricted Working Space, Add</i>	6.98	
23 21	13 23-0136	EA	2-1/2", 150 LB, Black Malleable Iron Cap.....	62.54	19.27
			<i>For 300 LB Rating, Add</i>	82.56	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.54	
			<i>For Work In Restricted Working Space, Add</i>	8.66	
23 21	13 23-0137	EA	3", 150 LB, Black Malleable Iron Cap.....	84.57	23.27
			<i>For 300 LB Rating, Add</i>	121.28	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	0.79	
			<i>For Work In Restricted Working Space, Add</i>	10.47	
23 21	13 23-0138	EA	4", 150 LB, Black Malleable Iron Cap.....	124.05	25.97
			<i>For 300 LB Rating, Add</i>	206.72	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	1.36	
			<i>For Work In Restricted Working Space, Add</i>	11.67	
23 21	13 23-0139	EA	5", 150 LB, Black Malleable Iron Cap.....	251.58	32.47
			<i>For 300 LB Rating, Add</i>	490.02	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	3.25	
			<i>For Work In Restricted Working Space, Add</i>	14.59	
23 21	13 23-0140	EA	6", 150 LB, Black Malleable Iron Cap.....	429.98	38.60
			<i>For 300 LB Rating, Add</i>	896.40	
			<i>For Standard Weight Cast Iron Fittings, Add</i>	5.95	
			<i>For Work In Restricted Working Space, Add</i>	17.38	
23 21	13 23-0141		<b>Black Malleable Iron Unions</b> <small>(23 21 13 23-0014)</small>		
23 21	13 23-0142	EA	3/8", 150 LB, Black Malleable Iron Union.....	40.31	12.01
			<i>For Work In Restricted Working Space, Add</i>	7.22	
23 21	13 23-0143	EA	1/2", 150 LB, Black Malleable Iron Union.....	50.79	24.03
			<i>For Work In Restricted Working Space, Add</i>	10.82	
23 21	13 23-0144	EA	3/4", 150 LB, Black Malleable Iron Union.....	58.54	27.82
			<i>For Work In Restricted Working Space, Add</i>	12.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0145 EA 1", 150 LB, Black Malleable Iron Union.....	71.25	32.79
<i>For Work In Restricted Working Space, Add</i>	14.76	
23 21 13 23-0146 EA 1-1/4", 150 LB, Black Malleable Iron Union .....	90.13	39.07
<i>For Work In Restricted Working Space, Add</i>	17.55	
23 21 13 23-0147 EA 1-1/2", 150 LB, Black Malleable Iron Union .....	109.25	46.53
<i>For Work In Restricted Working Space, Add</i>	20.95	
23 21 13 23-0148 EA 2", 150 LB, Black Malleable Iron Union.....	132.43	57.79
<i>For Work In Restricted Working Space, Add</i>	25.97	
23 21 13 23-0149 EA 2-1/2", 150 LB, Black Malleable Iron Union .....	264.41	85.18
<i>For Work In Restricted Working Space, Add</i>	38.34	
23 21 13 23-0150 EA 3", 150 LB, Black Malleable Iron Union.....	332.62	112.01
<i>For Work In Restricted Working Space, Add</i>	50.45	
23 21 13 23-0151 EA 3/8", 250 LB, Black Malleable Iron Union.....	45.54	12.01
<i>For Work In Restricted Working Space, Add</i>	7.22	
23 21 13 23-0152 EA 1/2", 250 LB, Black Malleable Iron Union.....	60.72	24.03
<i>For Work In Restricted Working Space, Add</i>	10.82	
23 21 13 23-0153 EA 3/4", 250 LB, Black Malleable Iron Union.....	65.88	27.82
<i>For Work In Restricted Working Space, Add</i>	12.49	
23 21 13 23-0154 EA 1", 250 LB, Black Malleable Iron Union.....	78.95	32.79
<i>For Work In Restricted Working Space, Add</i>	14.76	
23 21 13 23-0155 EA 1-1/4", 250 LB, Black Malleable Iron Union .....	108.41	39.07
<i>For Work In Restricted Working Space, Add</i>	17.55	
23 21 13 23-0156 EA 1-1/2", 250 LB, Black Malleable Iron Union .....	127.31	46.53
<i>For Work In Restricted Working Space, Add</i>	20.95	
23 21 13 23-0157 EA 2", 250 LB, Black Malleable Iron Union.....	160.32	57.79
<i>For Work In Restricted Working Space, Add</i>	25.97	
23 21 13 23-0158 EA 2-1/2", 250 LB, Black Malleable Iron Union .....	358.94	85.18
<i>For Work In Restricted Working Space, Add</i>	38.35	
23 21 13 23-0159 EA 3", 250 LB, Black Malleable Iron Union.....	438.66	112.01
<i>For Work In Restricted Working Space, Add</i>	50.45	
23 21 13 23-0160 EA 4", 250 LB, Black Malleable Iron Union.....	646.91	111.63
<i>For Work In Restricted Working Space, Add</i>	50.24	
23 21 13 23-0161 EA 3/8", 300 LB, Black Malleable Iron Union.....	58.92	12.01
<i>For Work In Restricted Working Space, Add</i>	7.22	
23 21 13 23-0162 EA 1/2", 300 LB, Black Malleable Iron Union.....	64.28	24.03
<i>For Work In Restricted Working Space, Add</i>	10.82	
23 21 13 23-0163 EA 3/4", 300 LB, Black Malleable Iron Union.....	72.87	27.82
<i>For Work In Restricted Working Space, Add</i>	12.49	
23 21 13 23-0164 EA 1", 300 LB, Black Malleable Iron Union.....	89.98	32.79
<i>For Work In Restricted Working Space, Add</i>	14.76	
23 21 13 23-0165 EA 1-1/4", 300 LB, Black Malleable Iron Union .....	125.01	39.07
<i>For Work In Restricted Working Space, Add</i>	17.55	
23 21 13 23-0166 EA 1-1/2", 300 LB, Black Malleable Iron Union .....	139.49	46.53
<i>For Work In Restricted Working Space, Add</i>	20.95	
23 21 13 23-0167 EA 2", 300 LB, Black Malleable Iron Union.....	172.87	57.79
<i>For Work In Restricted Working Space, Add</i>	25.97	
23 21 13 23-0168 EA 2-1/2", 300 LB, Black Malleable Iron Union .....	406.03	85.18
<i>For Work In Restricted Working Space, Add</i>	38.35	
23 21 13 23-0169 EA 3", 300 LB, Black Malleable Iron Union.....	528.08	112.01
<i>For Work In Restricted Working Space, Add</i>	50.45	
23 21 13 23-0170 EA 4", 300 LB, Black Malleable Iron Union.....	1,309.78	111.63
<i>For Work In Restricted Working Space, Add</i>	50.24	
<b>23 21 13 23-0171 Black Steel Nipples</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0172 EA 3/8" x Close, Schedule 40 Black Steel Nipple.....	16.38	10.28
<i>For Schedule 80 Nipples, Add</i>	0.46	
<i>For Work In Restricted Working Space, Add</i>	4.64	
23 21 13 23-0173 EA 1/2" x Close, Schedule 40 Black Steel Nipple.....	16.23	10.28
<i>For Schedule 80 Nipples, Add</i>	0.39	
<i>For Work In Restricted Working Space, Add</i>	4.64	
23 21 13 23-0174 EA 3/4" x Close, Schedule 40 Black Steel Nipple.....	16.35	10.28
<i>For Schedule 80 Nipples, Add</i>	0.45	
<i>For Work In Restricted Working Space, Add</i>	4.64	
23 21 13 23-0175 EA 1" x Close, Schedule 40 Black Steel Nipple.....	17.94	11.15
<i>For Schedule 80 Nipples, Add</i>	0.65	
<i>For Work In Restricted Working Space, Add</i>	5.00	
23 21 13 23-0176 EA 1-1/4" x Close, Schedule 40 Black Steel Nipple .....	19.68	12.01
<i>For Schedule 80 Nipples, Add</i>	0.82	
<i>For Work In Restricted Working Space, Add</i>	5.41	
23 21 13 23-0177 EA 1-1/2" x Close, Schedule 40 Black Steel Nipple .....	20.08	12.01
<i>For Schedule 80 Nipples, Add</i>	1.02	
<i>For Work In Restricted Working Space, Add</i>	5.41	
23 21 13 23-0178 EA 2" x Close, Schedule 40 Black Steel Nipple.....	26.05	15.48
<i>For Schedule 80 Nipples, Add</i>	1.39	
<i>For Work In Restricted Working Space, Add</i>	6.98	
23 21 13 23-0179 EA 2-1/2" x Close, Schedule 40 Black Steel Nipple .....	37.54	19.27
<i>For Schedule 80 Nipples, Add</i>	4.34	
<i>For Work In Restricted Working Space, Add</i>	8.66	
23 21 13 23-0180 EA 3" x Close, Schedule 40 Black Steel Nipple.....	45.23	23.27
<i>For Schedule 80 Nipples, Add</i>	5.16	
<i>For Work In Restricted Working Space, Add</i>	10.47	
23 21 13 23-0181 EA 4" x Close, Schedule 40 Black Steel Nipple.....	54.43	25.97
<i>For Schedule 80 Nipples, Add</i>	7.77	
<i>For Work In Restricted Working Space, Add</i>	11.67	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0182	EA	3/8" x 1-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.50 0.52 4.64	10.28
23 21	13 23-0183	EA	1/2" x 1-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.23 0.39 4.64	10.28
23 21	13 23-0184	EA	3/4" x 1-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.42 0.48 4.64	10.28
23 21	13 23-0185	EA	3/8" x 2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.50 0.52 4.64	10.28
23 21	13 23-0186	EA	1/2" x 2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.23 0.39 4.64	10.28
23 21	13 23-0187	EA	3/4" x 2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.42 0.48 4.64	10.28
23 21	13 23-0188	EA	1" x 2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.07 0.71 5.00	11.15
23 21	13 23-0189	EA	1-1/4" x 2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.90 0.93 5.41	12.01
23 21	13 23-0190	EA	1-1/2" x 2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.24 1.10 5.41	12.01
23 21	13 23-0191	EA	3/8" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.80 0.67 4.64	10.28
23 21	13 23-0192	EA	1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.38 0.46 4.64	10.28
23 21	13 23-0193	EA	3/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.54 0.54 4.64	10.28
23 21	13 23-0194	EA	1" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.15 0.75 5.00	11.15
23 21	13 23-0195	EA	1-1/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.01 0.99 5.41	12.01
23 21	13 23-0196	EA	1-1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.50 1.23 5.41	12.01
23 21	13 23-0197	EA	2" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.46 1.59 6.98	15.48
23 21	13 23-0198	EA	3/8" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.80 0.67 4.64	10.28
23 21	13 23-0199	EA	1/2" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.38 0.46 4.64	10.28
23 21	13 23-0200	EA	3/4" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.54 0.54 4.64	10.28
23 21	13 23-0201	EA	1" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.15 0.75 5.00	11.15
23 21	13 23-0202	EA	1-1/4" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.01 0.99 5.41	12.01
23 21	13 23-0203	EA	1-1/2" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.50 1.23 5.41	12.01
23 21	13 23-0204	EA	2" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.46 1.59 6.98	15.48
23 21	13 23-0205	EA	2-1/2" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	37.77 4.46 8.66	19.27
23 21	13 23-0206	EA	3" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.13 5.61 10.47	23.27
23 21	13 23-0207	EA	3/8" x 3-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.04 0.79 4.64	10.28
23 21	13 23-0208	EA	1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.56 0.55 4.64	10.28
23 21	13 23-0209	EA	3/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.80 0.67 4.64	10.28





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0210 EA 1" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....	18.51	11.15
For Schedule 80 Nipples, Add	0.93	
For Work In Restricted Working Space, Add	5.00	
23 21 13 23-0211 EA 1-1/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....	20.37	12.01
For Schedule 80 Nipples, Add	1.17	
For Work In Restricted Working Space, Add	5.41	
23 21 13 23-0212 EA 1-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....	20.79	12.01
For Schedule 80 Nipples, Add	1.38	
For Work In Restricted Working Space, Add	5.41	
23 21 13 23-0213 EA 2" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....	27.13	15.48
For Schedule 80 Nipples, Add	1.93	
For Work In Restricted Working Space, Add	6.98	
23 21 13 23-0214 EA 2-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....	39.34	19.27
For Schedule 80 Nipples, Add	5.24	
For Work In Restricted Working Space, Add	8.66	
23 21 13 23-0215 EA 3" x 3-1/2" Long, Schedule 40 Black Steel Nipple .....	48.19	23.27
For Schedule 80 Nipples, Add	6.64	
For Work In Restricted Working Space, Add	10.47	
23 21 13 23-0216 EA 3/8" x 4" Long, Schedule 40 Black Steel Nipple.....	17.04	10.28
For Schedule 80 Nipples, Add	0.79	
For Work In Restricted Working Space, Add	4.64	
23 21 13 23-0217 EA 1/2" x 4" Long, Schedule 40 Black Steel Nipple.....	16.56	10.28
For Schedule 80 Nipples, Add	0.55	
For Work In Restricted Working Space, Add	4.64	
23 21 13 23-0218 EA 3/4" x 4" Long, Schedule 40 Black Steel Nipple.....	16.80	10.28
For Schedule 80 Nipples, Add	0.67	
For Work In Restricted Working Space, Add	4.64	
23 21 13 23-0219 EA 1" x 4" Long, Schedule 40 Black Steel Nipple.....	18.51	11.15
For Schedule 80 Nipples, Add	0.93	
For Work In Restricted Working Space, Add	5.00	
23 21 13 23-0220 EA 1-1/4" x 4" Long, Schedule 40 Black Steel Nipple .....	20.37	12.01
For Schedule 80 Nipples, Add	1.17	
For Work In Restricted Working Space, Add	5.41	
23 21 13 23-0221 EA 1-1/2" x 4" Long, Schedule 40 Black Steel Nipple .....	20.79	12.01
For Schedule 80 Nipples, Add	1.38	
For Work In Restricted Working Space, Add	5.41	
23 21 13 23-0222 EA 2" x 4" Long, Schedule 40 Black Steel Nipple.....	27.13	15.48
For Schedule 80 Nipples, Add	1.93	
For Work In Restricted Working Space, Add	6.98	
23 21 13 23-0223 EA 2-1/2" x 4" Long, Schedule 40 Black Steel Nipple .....	39.34	19.27
For Schedule 80 Nipples, Add	5.24	
For Work In Restricted Working Space, Add	8.66	
23 21 13 23-0224 EA 3" x 4" Long, Schedule 40 Black Steel Nipple.....	48.19	23.27
For Schedule 80 Nipples, Add	6.64	
For Work In Restricted Working Space, Add	10.47	
23 21 13 23-0225 EA 4" x 4" Long, Schedule 40 Black Steel Nipple.....	56.87	25.97
For Schedule 80 Nipples, Add	8.99	
For Work In Restricted Working Space, Add	11.67	
23 21 13 23-0226 EA 3/8" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	17.74	10.28
For Schedule 80 Nipples, Add	1.14	
For Work In Restricted Working Space, Add	4.64	
23 21 13 23-0227 EA 1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	16.75	10.28
For Schedule 80 Nipples, Add	0.65	
For Work In Restricted Working Space, Add	4.64	
23 21 13 23-0228 EA 3/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	17.14	10.28
For Schedule 80 Nipples, Add	0.84	
For Work In Restricted Working Space, Add	4.64	
23 21 13 23-0229 EA 1" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	18.85	11.15
For Schedule 80 Nipples, Add	1.10	
For Work In Restricted Working Space, Add	5.00	
23 21 13 23-0230 EA 1-1/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	20.83	12.01
For Schedule 80 Nipples, Add	1.40	
For Work In Restricted Working Space, Add	5.41	
23 21 13 23-0231 EA 1-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	21.41	12.01
For Schedule 80 Nipples, Add	1.69	
For Work In Restricted Working Space, Add	5.41	
23 21 13 23-0232 EA 2" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	27.72	15.48
For Schedule 80 Nipples, Add	2.22	
For Work In Restricted Working Space, Add	6.98	
23 21 13 23-0233 EA 2-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	40.37	19.27
For Schedule 80 Nipples, Add	5.76	
For Work In Restricted Working Space, Add	8.66	
23 21 13 23-0234 EA 3" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	49.56	23.27
For Schedule 80 Nipples, Add	7.33	
For Work In Restricted Working Space, Add	10.47	
23 21 13 23-0235 EA 4" x 4-1/2" Long, Schedule 40 Black Steel Nipple .....	59.43	25.97
For Schedule 80 Nipples, Add	10.27	
For Work In Restricted Working Space, Add	11.67	
23 21 13 23-0236 EA 3/8" x 5" Long, Schedule 40 Black Steel Nipple.....	17.74	10.28
For Schedule 80 Nipples, Add	1.14	
For Work In Restricted Working Space, Add	4.64	
23 21 13 23-0237 EA 1/2" x 5" Long, Schedule 40 Black Steel Nipple.....	16.75	10.28
For Schedule 80 Nipples, Add	0.65	
For Work In Restricted Working Space, Add	4.64	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0238	EA	3/4" x 5" Long, Schedule 40 Black Steel Nipple.....	17.14	10.28
			<i>For Schedule 80 Nipples, Add</i>	0.84	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
23 21	13 23-0239	EA	1" x 5" Long, Schedule 40 Black Steel Nipple.....	18.85	11.15
			<i>For Schedule 80 Nipples, Add</i>	1.10	
			<i>For Work In Restricted Working Space, Add</i>	5.00	
23 21	13 23-0240	EA	1-1/4" x 5" Long, Schedule 40 Black Steel Nipple.....	20.83	12.01
			<i>For Schedule 80 Nipples, Add</i>	1.40	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
23 21	13 23-0241	EA	1-1/2" x 5" Long, Schedule 40 Black Steel Nipple.....	21.41	12.01
			<i>For Schedule 80 Nipples, Add</i>	1.69	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
23 21	13 23-0242	EA	2" x 5" Long, Schedule 40 Black Steel Nipple.....	27.72	15.48
			<i>For Schedule 80 Nipples, Add</i>	2.22	
			<i>For Work In Restricted Working Space, Add</i>	6.98	
23 21	13 23-0243	EA	2-1/2" x 5" Long, Schedule 40 Black Steel Nipple.....	40.37	19.27
			<i>For Schedule 80 Nipples, Add</i>	5.76	
			<i>For Work In Restricted Working Space, Add</i>	8.66	
23 21	13 23-0244	EA	3" x 5" Long, Schedule 40 Black Steel Nipple.....	49.56	23.27
			<i>For Schedule 80 Nipples, Add</i>	7.33	
			<i>For Work In Restricted Working Space, Add</i>	10.47	
23 21	13 23-0245	EA	4" x 5" Long, Schedule 40 Black Steel Nipple.....	59.43	25.97
			<i>For Schedule 80 Nipples, Add</i>	10.27	
			<i>For Work In Restricted Working Space, Add</i>	11.67	
23 21	13 23-0246	EA	3/8" x 6" Long, Schedule 40 Black Steel Nipple.....	17.99	10.28
			<i>For Schedule 80 Nipples, Add</i>	1.27	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
23 21	13 23-0247	EA	1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	16.90	10.28
			<i>For Schedule 80 Nipples, Add</i>	0.72	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
23 21	13 23-0248	EA	3/4" x 6" Long, Schedule 40 Black Steel Nipple.....	17.37	10.28
			<i>For Schedule 80 Nipples, Add</i>	0.96	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
23 21	13 23-0249	EA	1" x 6" Long, Schedule 40 Black Steel Nipple.....	19.25	11.15
			<i>For Schedule 80 Nipples, Add</i>	1.30	
			<i>For Work In Restricted Working Space, Add</i>	5.00	
23 21	13 23-0250	EA	1-1/4" x 6" Long, Schedule 40 Black Steel Nipple.....	21.35	12.01
			<i>For Schedule 80 Nipples, Add</i>	1.66	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
23 21	13 23-0251	EA	1-1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	21.90	12.01
			<i>For Schedule 80 Nipples, Add</i>	1.93	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
23 21	13 23-0252	EA	2" x 6" Long, Schedule 40 Black Steel Nipple.....	28.48	15.48
			<i>For Schedule 80 Nipples, Add</i>	2.60	
			<i>For Work In Restricted Working Space, Add</i>	6.98	
23 21	13 23-0253	EA	2-1/2" x 6" Long, Schedule 40 Black Steel Nipple.....	40.86	19.27
			<i>For Schedule 80 Nipples, Add</i>	6.00	
			<i>For Work In Restricted Working Space, Add</i>	8.66	
23 21	13 23-0254	EA	3" x 6" Long, Schedule 40 Black Steel Nipple.....	50.83	23.27
			<i>For Schedule 80 Nipples, Add</i>	7.96	
			<i>For Work In Restricted Working Space, Add</i>	10.47	
23 21	13 23-0255	EA	4" x 6" Long, Schedule 40 Black Steel Nipple.....	60.84	25.97
			<i>For Schedule 80 Nipples, Add</i>	10.98	
			<i>For Work In Restricted Working Space, Add</i>	11.67	
23 21	13 23-0256	EA	3/8" x 8" Long, Schedule 40 Black Steel Nipple.....	19.91	10.28
			<i>For Schedule 80 Nipples, Add</i>	2.23	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
23 21	13 23-0257	EA	1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	18.06	10.28
			<i>For Schedule 80 Nipples, Add</i>	1.30	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
23 21	13 23-0258	EA	3/4" x 8" Long, Schedule 40 Black Steel Nipple.....	18.64	10.28
			<i>For Schedule 80 Nipples, Add</i>	1.59	
			<i>For Work In Restricted Working Space, Add</i>	4.64	
23 21	13 23-0259	EA	1" x 8" Long, Schedule 40 Black Steel Nipple.....	20.90	11.15
			<i>For Schedule 80 Nipples, Add</i>	2.13	
			<i>For Work In Restricted Working Space, Add</i>	5.00	
23 21	13 23-0260	EA	1-1/4" x 8" Long, Schedule 40 Black Steel Nipple.....	23.38	12.01
			<i>For Schedule 80 Nipples, Add</i>	2.67	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
23 21	13 23-0261	EA	1-1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	24.17	12.01
			<i>For Schedule 80 Nipples, Add</i>	3.07	
			<i>For Work In Restricted Working Space, Add</i>	5.41	
23 21	13 23-0262	EA	2" x 8" Long, Schedule 40 Black Steel Nipple.....	32.00	15.48
			<i>For Schedule 80 Nipples, Add</i>	4.36	
			<i>For Work In Restricted Working Space, Add</i>	6.98	
23 21	13 23-0263	EA	2-1/2" x 8" Long, Schedule 40 Black Steel Nipple.....	44.13	19.27
			<i>For Schedule 80 Nipples, Add</i>	7.64	
			<i>For Work In Restricted Working Space, Add</i>	8.66	
23 21	13 23-0264	EA	3" x 8" Long, Schedule 40 Black Steel Nipple.....	56.39	23.27
			<i>For Schedule 80 Nipples, Add</i>	10.74	
			<i>For Work In Restricted Working Space, Add</i>	10.47	
23 21	13 23-0265	EA	4" x 8" Long, Schedule 40 Black Steel Nipple.....	64.23	25.97
			<i>For Schedule 80 Nipples, Add</i>	12.67	
			<i>For Work In Restricted Working Space, Add</i>	11.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0266 EA 3/8" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.45 2.50 4.64	10.28
23 21 13 23-0267 EA 1/2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.59 1.57 4.64	10.28
23 21 13 23-0268 EA 3/4" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.16 1.85 4.64	10.28
23 21 13 23-0269 EA 1" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.62 2.49 5.00	11.15
23 21 13 23-0270 EA 1-1/4" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.45 3.21 5.41	12.01
23 21 13 23-0271 EA 1-1/2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.21 3.59 5.41	12.01
23 21 13 23-0272 EA 2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	33.53 5.13 6.98	15.48
23 21 13 23-0273 EA 2-1/2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	46.01 8.58 8.66	19.27
23 21 13 23-0274 EA 3" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.03 12.06 10.47	23.27
23 21 13 23-0275 EA 4" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.75 14.43 11.67	25.97
23 21 13 23-0276 EA 3/8" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.14 2.84 4.64	10.28
23 21 13 23-0277 EA 1/2" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.17 1.86 4.64	10.28
23 21 13 23-0278 EA 3/4" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.57 2.06 4.64	10.28
23 21 13 23-0279 EA 1" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.36 2.86 5.00	11.15
23 21 13 23-0280 EA 1-1/4" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.31 3.64 5.41	12.01
23 21 13 23-0281 EA 1-1/2" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.30 4.13 5.41	12.01
23 21 13 23-0282 EA 2" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	35.08 5.90 6.98	15.48
23 21 13 23-0283 EA 2-1/2" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.94 9.54 8.66	19.27
23 21 13 23-0284 EA 3" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	61.68 13.39 10.47	23.27
23 21 13 23-0285 EA 4" x 12" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.72 16.92 11.67	25.97
<b>23 21 13 23-0286 Black Malleable Iron Bushing</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0287 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	31.60 7.94	17.64
23 21 13 23-0288 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	35.85 8.53	18.93
23 21 13 23-0289 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	38.01 9.17	20.34
23 21 13 23-0290 EA 1" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	40.54 9.09	20.24
23 21 13 23-0291 EA 1" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	40.12 9.74	21.65
23 21 13 23-0292 EA 1" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	41.84 10.26	22.83
23 21 13 23-0293 EA 1-1/4" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	44.17 9.80	21.75
23 21 13 23-0294 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	45.81 10.45	23.27
23 21 13 23-0295 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	46.45 10.97	24.35
23 21 13 23-0296 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	48.33 11.54	25.65
23 21 13 23-0297 EA 1-1/2" x 3/8", 150 LB, Black Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	50.45 10.59	23.60

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0298 EA 1-1/2" x 1/2", 150 LB, Black Malleable Iron Bushing.....	49.95	25.00
<i>For Work In Restricted Working Space, Add</i>	11.24	
23 21 13 23-0299 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing.....	51.67	26.08
<i>For Work In Restricted Working Space, Add</i>	11.75	
23 21 13 23-0300 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Bushing.....	52.03	27.38
<i>For Work In Restricted Working Space, Add</i>	12.32	
23 21 13 23-0301 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	55.97	29.00
<i>For Work In Restricted Working Space, Add</i>	13.03	
23 21 13 23-0302 EA 2" x 3/8", 150 LB, Black Malleable Iron Bushing.....	62.92	27.71
<i>For Work In Restricted Working Space, Add</i>	12.46	
23 21 13 23-0303 EA 2" x 1/2", 150 LB, Black Malleable Iron Bushing.....	62.54	29.12
<i>For Work In Restricted Working Space, Add</i>	13.10	
23 21 13 23-0304 EA 2" x 3/4", 150 LB, Black Malleable Iron Bushing.....	61.36	30.30
<i>For Work In Restricted Working Space, Add</i>	13.62	
23 21 13 23-0305 EA 2" x 1", 150 LB, Black Malleable Iron Bushing.....	62.24	31.50
<i>For Work In Restricted Working Space, Add</i>	14.19	
23 21 13 23-0306 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	64.62	33.12
<i>For Work In Restricted Working Space, Add</i>	14.90	
23 21 13 23-0307 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	68.91	34.84
<i>For Work In Restricted Working Space, Add</i>	15.68	
23 21 13 23-0308 EA 2-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing.....	86.62	39.61
<i>For Work In Restricted Working Space, Add</i>	17.84	
23 21 13 23-0309 EA 2-1/2" x 1", 150 LB, Black Malleable Iron Bushing.....	88.51	40.91
<i>For Work In Restricted Working Space, Add</i>	18.40	
23 21 13 23-0310 EA 2-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	90.88	42.42
<i>For Work In Restricted Working Space, Add</i>	19.11	
23 21 13 23-0311 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	91.63	44.26
<i>For Work In Restricted Working Space, Add</i>	19.90	
23 21 13 23-0312 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Bushing.....	97.65	48.38
<i>For Work In Restricted Working Space, Add</i>	21.76	
23 21 13 23-0313 EA 3" x 3/4", 150 LB, Black Malleable Iron Bushing.....	110.69	48.70
<i>For Work In Restricted Working Space, Add</i>	21.94	
23 21 13 23-0314 EA 3" x 1", 150 LB, Black Malleable Iron Bushing.....	112.57	50.00
<i>For Work In Restricted Working Space, Add</i>	22.50	
23 21 13 23-0315 EA 3" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	114.96	51.63
<i>For Work In Restricted Working Space, Add</i>	23.22	
23 21 13 23-0316 EA 3" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	116.83	53.36
<i>For Work In Restricted Working Space, Add</i>	24.00	
23 21 13 23-0317 EA 3" x 2", 150 LB, Black Malleable Iron Bushing.....	120.64	57.47
<i>For Work In Restricted Working Space, Add</i>	25.86	
23 21 13 23-0318 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Bushing.....	135.20	66.88
<i>For Work In Restricted Working Space, Add</i>	30.08	
23 21 13 23-0319 EA 4" x 3/4", 150 LB, Black Malleable Iron Bushing.....	143.30	47.45
<i>For Work In Restricted Working Space, Add</i>	21.37	
23 21 13 23-0320 EA 4" x 1", 150 LB, Black Malleable Iron Bushing.....	144.99	48.62
<i>For Work In Restricted Working Space, Add</i>	21.88	
23 21 13 23-0321 EA 4" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	147.13	50.08
<i>For Work In Restricted Working Space, Add</i>	22.52	
23 21 13 23-0322 EA 4" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	149.47	51.63
<i>For Work In Restricted Working Space, Add</i>	23.22	
23 21 13 23-0323 EA 4" x 2", 150 LB, Black Malleable Iron Bushing.....	151.19	55.33
<i>For Work In Restricted Working Space, Add</i>	24.90	
23 21 13 23-0324 EA 4" x 2-1/2", 150 LB, Black Malleable Iron Bushing.....	163.80	63.79
<i>For Work In Restricted Working Space, Add</i>	28.68	
23 21 13 23-0325 EA 4" x 3", 150 LB, Black Malleable Iron Bushing.....	176.10	71.95
<i>For Work In Restricted Working Space, Add</i>	32.37	
<b>23 21 13 23-0326 Black Malleable Iron Square Head Plugs (23 21 13 23-0014)</b>		
23 21 13 23-0327 EA 3/8", 150 LB, Black Malleable Iron Square Head Plug.....	13.55	6.38
<i>For Work In Restricted Working Space, Add</i>	2.89	
23 21 13 23-0328 EA 1/2", 150 LB, Black Malleable Iron Square Head Plug.....	15.75	7.69
<i>For Work In Restricted Working Space, Add</i>	3.47	
23 21 13 23-0329 EA 3/4", 150 LB, Black Malleable Iron Square Head Plug.....	17.12	8.65
<i>For Work In Restricted Working Space, Add</i>	3.88	
23 21 13 23-0330 EA 1", 150 LB, Black Malleable Iron Square Head Plug.....	19.70	9.63
<i>For Work In Restricted Working Space, Add</i>	4.33	
23 21 13 23-0331 EA 1-1/4", 150 LB, Black Malleable Iron Square Head Plug.....	22.98	10.93
<i>For Work In Restricted Working Space, Add</i>	4.90	
23 21 13 23-0332 EA 1-1/2", 150 LB, Black Malleable Iron Square Head Plug.....	27.69	12.23
<i>For Work In Restricted Working Space, Add</i>	5.53	
23 21 13 23-0333 EA 2", 150 LB, Black Malleable Iron Square Head Plug.....	36.58	15.59
<i>For Work In Restricted Working Space, Add</i>	7.02	
23 21 13 23-0334 EA 2-1/2", 150 LB, Black Malleable Iron Square Head Plug.....	58.62	23.06
<i>For Work In Restricted Working Space, Add</i>	10.39	
23 21 13 23-0335 EA 3", 150 LB, Black Malleable Iron Square Head Plug.....	78.52	30.41
<i>For Work In Restricted Working Space, Add</i>	13.67	
23 21 13 23-0336 EA 4", 150 LB, Black Malleable Iron Square Head Plug.....	114.47	30.24
<i>For Work In Restricted Working Space, Add</i>	13.61	
23 21 13 23-0337 EA 5", 150 LB, Black Malleable Iron Square Head Plug.....	195.74	31.60
<i>For Work In Restricted Working Space, Add</i>	14.21	
23 21 13 23-0338 EA 6", 150 LB, Black Malleable Iron Square Head Plug.....	233.31	32.97
<i>For Work In Restricted Working Space, Add</i>	14.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 21 13 23-0339    125 LB Black Cast Iron Screwed Flanges</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0340 EA 3/4", 125 LB, Black Cast Iron Flange.....	140.15	43.29
For Work In Restricted Working Space, Add	19.48	
23 21 13 23-0341 EA 1", 125 LB, Black Cast Iron Flange.....	121.22	48.91
For Work In Restricted Working Space, Add	22.01	
23 21 13 23-0342 EA 1-1/4", 125 LB, Black Cast Iron Flange.....	133.18	50.65
For Work In Restricted Working Space, Add	22.78	
23 21 13 23-0343 EA 1-1/2", 125 LB, Black Cast Iron Flange.....	135.50	55.09
For Work In Restricted Working Space, Add	24.78	
23 21 13 23-0344 EA 2", 125 LB, Black Cast Iron Flange.....	139.02	57.47
For Work In Restricted Working Space, Add	25.87	
23 21 13 23-0345 EA 2-1/2", 125 LB, Black Cast Iron Flange.....	161.48	66.56
For Work In Restricted Working Space, Add	29.92	
23 21 13 23-0346 EA 3", 125 LB, Black Cast Iron Flange.....	206.12	84.41
For Work In Restricted Working Space, Add	37.97	
23 21 13 23-0347 EA 4", 125 LB, Black Cast Iron Flange.....	262.78	103.75
For Work In Restricted Working Space, Add	46.67	
23 21 13 23-0348 EA 5", 125 LB, Black Cast Iron Flange.....	336.65	123.59
For Work In Restricted Working Space, Add	55.57	
23 21 13 23-0349 EA 6", 125 LB, Black Cast Iron Flange.....	384.03	141.87
For Work In Restricted Working Space, Add	63.81	
<b>23 21 13 23-0350    150 LB, Black Malleable Iron Flanges</b> <small>(23 21 13 23-0014)</small>		
23 21 13 23-0351 EA 1/2", 150 LB, Black Malleable Iron Flange.....	75.94	39.51
For Work In Restricted Working Space, Add	17.79	
23 21 13 23-0352 EA 3/4", 150 LB, Black Malleable Iron Flange.....	82.86	43.29
For Work In Restricted Working Space, Add	19.48	
23 21 13 23-0353 EA 1", 150 LB, Black Malleable Iron Flange.....	96.67	48.91
For Work In Restricted Working Space, Add	22.01	
23 21 13 23-0354 EA 1-1/4", 150 LB, Black Malleable Iron Flange.....	100.85	50.65
For Work In Restricted Working Space, Add	22.78	
23 21 13 23-0355 EA 1-1/2", 150 LB, Black Malleable Iron Flange.....	109.78	55.09
For Work In Restricted Working Space, Add	24.78	
23 21 13 23-0356 EA 2", 150 LB, Black Malleable Iron Flange.....	121.66	57.47
For Work In Restricted Working Space, Add	25.87	
23 21 13 23-0357 EA 2-1/2", 150 LB, Black Malleable Iron Flange.....	155.30	66.56
For Work In Restricted Working Space, Add	29.92	
23 21 13 23-0358 EA 3", 150 LB, Black Malleable Iron Flange.....	196.78	84.41
For Work In Restricted Working Space, Add	37.97	
23 21 13 23-0359 EA 4", 150 LB, Black Malleable Iron Flange.....	274.83	103.75
For Work In Restricted Working Space, Add	46.66	
<b>23 21 13 23-0360    Cut And Thread Existing In-Place Black Steel Pipe</b> <small>(23 21 13 23-0014)</small>		
Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0361 EA 1/2", Cut And Thread Existing In Place Black Steel Pipe.....	35.27	
For Work In Restricted Working Space, Add	10.58	
23 21 13 23-0362 EA 3/4", Cut And Thread Existing In Place Black Steel Pipe.....	38.80	
For Work In Restricted Working Space, Add	11.64	
23 21 13 23-0363 EA 1", Cut And Thread Existing In Place Black Steel Pipe.....	42.33	
For Work In Restricted Working Space, Add	12.70	
23 21 13 23-0364 EA 1-1/4", Cut And Thread Existing In Place Black Steel Pipe.....	45.86	
For Work In Restricted Working Space, Add	13.76	
23 21 13 23-0365 EA 1-1/2", Cut And Thread Existing In Place Black Steel Pipe.....	48.21	
For Work In Restricted Working Space, Add	14.46	
23 21 13 23-0366 EA 2", Cut And Thread Existing In Place Black Steel Pipe.....	50.57	
For Work In Restricted Working Space, Add	15.17	
23 21 13 23-0367 EA 2-1/2", Cut And Thread Existing In Place Black Steel Pipe.....	52.92	
For Work In Restricted Working Space, Add	15.88	
23 21 13 23-0368 EA 3", Cut And Thread Existing In Place Black Steel Pipe.....	55.27	
For Work In Restricted Working Space, Add	16.58	
23 21 13 23-0369 EA 4", Cut And Thread Existing In Place Black Steel Pipe.....	57.62	
For Work In Restricted Working Space, Add	17.29	
23 21 13 23-0370 EA 6", Cut And Thread Existing In Place Black Steel Pipe.....	62.32	
For Work In Restricted Working Space, Add	18.70	
23 21 13 23-0371 EA 8", Cut And Thread Existing In Place Black Steel Pipe.....	67.02	
For Work In Restricted Working Space, Add	20.11	
23 21 13 23-0372 EA 10", Cut And Thread Existing In Place Black Steel Pipe.....	72.90	
For Work In Restricted Working Space, Add	21.87	
23 21 13 23-0373 EA 12", Cut And Thread Existing In Place Black Steel Pipe.....	77.60	
For Work In Restricted Working Space, Add	23.28	
<b>23 21 13 23-0374    Welded Black Steel Pipe</b> <small>(23 21 13 23)</small>		
<b>23 21 13 23-0375    Welded Plain End Black Steel Pipe Assemblies</b> <small>(23 21 13 23-0374)</small>		
Note: ASTM A-53. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
23 21 13 23-0376 LF 3/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly.....	24.14	8.20
Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
For Work In Restricted Working Space, Add	5.99	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0377 LF 1" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	26.87 6.71	8.74
23 21 13 23-0378 LF 1-1/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	31.79 7.70	9.28
23 21 13 23-0379 LF 1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	33.76 8.05	9.28
23 21 13 23-0380 LF 2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	38.72 9.32	9.28
23 21 13 23-0381 LF 2-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	44.89 10.80	9.28
23 21 13 23-0382 LF 3" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	50.78 11.40	9.07
23 21 13 23-0383 LF 4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	62.79 13.11	10.57
23 21 13 23-0384 LF 6" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	82.62 15.09	15.74
23 21 13 23-0385 LF 8" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	125.35 22.39	19.56
23 21 13 23-0386 LF 10" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	165.06 26.70	24.44
23 21 13 23-0387 LF 12" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	205.37 30.86	29.54
23 21 13 23-0388 LF 14" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	230.72 34.42	38.53
23 21 13 23-0389 LF 16" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	268.15 38.47	48.90
23 21 13 23-0390 LF 18" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	335.13 42.21	60.54
23 21 13 23-0391 LF 20" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	428.34 48.31	74.82
23 21 13 23-0392 LF 24" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly..... Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	524.16 53.12	84.78
<b>23 21 13 23-0393 Welded Black Steel Pipe And Fittings</b> (23 21 13 23-0374) Note: ASTM A-53. Excludes hangers or fittings.		
<b>23 21 13 23-0394 Welded Plain End Black Steel Piping</b> (23 21 13 23-0393) Note: ASTM A-53		
23 21 13 23-0395 LF 3/4" Schedule 40, Welded Plain End Black Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	10.21 1.61 0.18 2.62	4.37
23 21 13 23-0396 LF 1" Schedule 40, Welded Plain End Black Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.89 2.03 0.24 3.28	5.46
23 21 13 23-0397 LF 1-1/4" Schedule 40, Welded Plain End Black Steel Pipe ..... <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.98 2.54 0.34 3.93	6.55



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0398 LF 1-1/2" Schedule 40, Welded Plain End Black Steel Pipe.....	19.12	7.65
<i>For Schedule 80 Pipe, Add</i>	3.06	
<i>For Schedule A-106 Pipe, Add</i>	0.46	
<i>For Work In Restricted Working Space, Add</i>	4.59	
23 21 13 23-0399 LF 2" Schedule 40, Welded Plain End Black Steel Pipe.....	22.71	9.07
<i>For Schedule 80 Pipe, Add</i>	3.64	
<i>For Schedule A-106 Pipe, Add</i>	0.55	
<i>For Work In Restricted Working Space, Add</i>	5.44	
23 21 13 23-0400 LF 2-1/2" Schedule 40, Welded Plain End Black Steel Pipe.....	25.86	10.27
<i>For Schedule 80 Pipe, Add</i>	5.46	
<i>For Schedule A-106 Pipe, Add</i>	0.64	
<i>For Work In Restricted Working Space, Add</i>	6.16	
23 21 13 23-0401 LF 3" Schedule 40, Welded Plain End Black Steel Pipe.....	30.53	11.04
<i>For Schedule 80 Pipe, Add</i>	6.82	
<i>For Schedule A-106 Pipe, Add</i>	1.02	
<i>For Work In Restricted Working Space, Add</i>	6.62	
23 21 13 23-0402 LF 4" Schedule 40, Welded Plain End Black Steel Pipe.....	40.87	13.66
<i>For Schedule 80 Pipe, Add</i>	9.53	
<i>For Schedule A-106 Pipe, Add</i>	1.63	
<i>For Work In Restricted Working Space, Add</i>	8.19	
23 21 13 23-0403 LF 6" Schedule 40, Welded Plain End Black Steel Pipe.....	56.59	22.13
<i>For Schedule 80 Pipe, Add</i>	13.88	
<i>For Schedule A-106 Pipe, Add</i>	2.73	
<i>For Work In Restricted Working Space, Add</i>	10.16	
23 21 13 23-0404 LF 8" Schedule 40, Welded Plain End Black Steel Pipe.....	76.31	21.03
<i>For Schedule 80 Pipe, Add</i>	19.35	
<i>For Schedule A-106 Pipe, Add</i>	4.11	
<i>For Schedule 30 Pipe, Deduct</i>	-11.06	
<i>For Work In Restricted Working Space, Add</i>	12.62	
23 21 13 23-0405 LF 10" Schedule 40, Welded Plain End Black Steel Pipe.....	99.15	25.33
<i>For Schedule 80 Pipe, Add</i>	25.84	
<i>For Schedule A-106 Pipe, Add</i>	5.82	
<i>For Schedule 30 Pipe, Deduct</i>	-14.76	
<i>For Work In Restricted Working Space, Add</i>	15.20	
23 21 13 23-0406 LF 12" Schedule 40, Welded Plain End Black Steel Pipe.....	125.34	30.61
<i>For Schedule 80 Pipe, Add</i>	33.16	
<i>For Schedule A-106 Pipe, Add</i>	7.69	
<i>For Schedule 30 Pipe, Deduct</i>	-18.95	
<i>For Work In Restricted Working Space, Add</i>	18.37	
23 21 13 23-0407 LF 14" Schedule 40, Welded Plain End Black Steel Pipe.....	123.02	32.27
<i>For Schedule 80 Pipe, Add</i>	31.76	
<i>For Schedule A-106 Pipe, Add</i>	7.02	
<i>For Schedule 30 Pipe, Deduct</i>	-18.15	
<i>For Schedule 20 Pipe, Deduct</i>	-33.37	
<i>For Work In Restricted Working Space, Add</i>	19.37	
23 21 13 23-0408 LF 16" Schedule 40, Welded Plain End Black Steel Pipe.....	134.79	34.71
<i>For Schedule 80 Pipe, Add</i>	35.03	
<i>For Schedule A-106 Pipe, Add</i>	7.84	
<i>For Schedule 30 Pipe, Deduct</i>	-20.02	
<i>For Schedule 20 Pipe, Deduct</i>	-36.76	
<i>For Work In Restricted Working Space, Add</i>	20.83	
23 21 13 23-0409 LF 18" Schedule 40, Welded Plain End Black Steel Pipe.....	165.68	37.55
<i>For Schedule 80 Pipe, Add</i>	44.85	
<i>For Schedule A-106 Pipe, Add</i>	10.87	
<i>For Schedule 30 Pipe, Deduct</i>	-25.63	
<i>For Schedule 20 Pipe, Deduct</i>	-46.72	
<i>For Work In Restricted Working Space, Add</i>	22.53	
23 21 13 23-0410 LF 20" Schedule 40, Welded Plain End Black Steel Pipe.....	196.32	44.99
<i>For Schedule 80 Pipe, Add</i>	52.97	
<i>For Schedule A-106 Pipe, Add</i>	12.76	
<i>For Work In Restricted Working Space, Add</i>	26.99	
23 21 13 23-0411 LF 24" Schedule 40, Welded Plain End Black Steel Pipe.....	240.86	51.73
<i>For Schedule 80 Pipe, Add</i>	66.19	
<i>For Schedule A-106 Pipe, Add</i>	16.49	
<i>For Work In Restricted Working Space, Add</i>	31.04	
<b>23 21 13 23-0412 Welded Plain End Black Steel 90 Degree Elbows</b> <small>(23 21 13 23-0393)</small>		
23 21 13 23-0413 EA 3/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow.....	110.71	62.01
<i>For Schedule 80 Fittings, Add</i>	23.46	
<i>For Work In Restricted Working Space, Add</i>	27.87	
23 21 13 23-0414 EA 1" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow.....	115.58	65.23
<i>For Schedule 80 Fittings, Add</i>	24.41	
<i>For Work In Restricted Working Space, Add</i>	29.33	
23 21 13 23-0415 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow.....	129.27	74.32
<i>For Schedule 80 Fittings, Add</i>	27.08	
<i>For Work In Restricted Working Space, Add</i>	33.44	
23 21 13 23-0416 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow.....	138.07	80.20
<i>For Schedule 80 Fittings, Add</i>	28.79	
<i>For Work In Restricted Working Space, Add</i>	36.08	
23 21 13 23-0417 EA 2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow.....	174.24	104.35
<i>For Schedule 80 Fittings, Add</i>	35.85	
<i>For Work In Restricted Working Space, Add</i>	46.93	
23 21 13 23-0418 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow.....	219.30	130.46
<i>For Schedule 80 Fittings, Add</i>	45.26	
<i>For Work In Restricted Working Space, Add</i>	58.67	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0419	EA	3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	249.74	147.71
			<i>For Schedule 80 Fittings, Add</i>	51.68	
			<i>For Work In Restricted Working Space, Add</i>	66.41	
23 21	13 23-0420	EA	4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	429.56	255.21
			<i>For Schedule 80 Fittings, Add</i>	88.69	
			<i>For Work In Restricted Working Space, Add</i>	114.80	
23 21	13 23-0421	EA	6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	746.88	421.17
			<i>For Schedule 80 Fittings, Add</i>	157.76	
			<i>For Work In Restricted Working Space, Add</i>	189.45	
23 21	13 23-0422	EA	8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	1,008.69	529.95
			<i>For Schedule 80 Fittings, Add</i>	219.18	
			<i>For Work In Restricted Working Space, Add</i>	238.37	
23 21	13 23-0423	EA	10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	1,301.22	605.74
			<i>For Schedule 80 Fittings, Add</i>	295.02	
			<i>For Work In Restricted Working Space, Add</i>	272.43	
23 21	13 23-0424	EA	12" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	1,758.21	792.54
			<i>For Schedule 80 Fittings, Add</i>	402.71	
			<i>For Work In Restricted Working Space, Add</i>	356.45	
23 21	13 23-0425	EA	14" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	2,176.03	936.79
			<i>For Schedule 80 Fittings, Add</i>	505.34	
			<i>For Work In Restricted Working Space, Add</i>	421.34	
23 21	13 23-0426	EA	16" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	2,696.10	1,093.94
			<i>For Schedule 80 Fittings, Add</i>	636.63	
			<i>For Work In Restricted Working Space, Add</i>	492.00	
23 21	13 23-0427	EA	18" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	3,187.96	1,219.80
			<i>For Schedule 80 Fittings, Add</i>	764.37	
			<i>For Work In Restricted Working Space, Add</i>	548.62	
23 21	13 23-0428	EA	20" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	4,048.32	1,367.66
			<i>For Schedule 80 Fittings, Add</i>	999.19	
			<i>For Work In Restricted Working Space, Add</i>	615.17	
23 21	13 23-0429	EA	24" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	4,729.78	1,413.34
			<i>For Schedule 80 Fittings, Add</i>	1,196.45	
			<i>For Work In Restricted Working Space, Add</i>	635.67	
<b>23 21 13 23-0430 Welded Plain End Black Steel Reducing 90 Degree Elbows (23 21 13 23-0393)</b>					
23 21	13 23-0431	EA	4" x 3" 90 Standard Weight, Welded Plain End Black Steel Reducing 90 Degree Elbow .....	576.35	255.64
			<i>For Schedule 80 Fittings, Add</i>	132.65	
			<i>For Work In Restricted Working Space, Add</i>	115.00	
23 21	13 23-0432	EA	6" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	1,001.84	416.36
			<i>For Schedule 80 Fittings, Add</i>	235.00	
			<i>For Work In Restricted Working Space, Add</i>	187.29	
23 21	13 23-0433	EA	6" x 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	1,066.58	416.36
			<i>For Schedule 80 Fittings, Add</i>	254.42	
			<i>For Work In Restricted Working Space, Add</i>	187.29	
23 21	13 23-0434	EA	8" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	1,590.99	529.95
			<i>For Schedule 80 Fittings, Add</i>	393.87	
			<i>For Work In Restricted Working Space, Add</i>	238.37	
23 21	13 23-0435	EA	8" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	1,745.33	529.95
			<i>For Schedule 80 Fittings, Add</i>	440.17	
			<i>For Work In Restricted Working Space, Add</i>	238.37	
23 21	13 23-0436	EA	10" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	2,181.10	605.74
			<i>For Schedule 80 Fittings, Add</i>	558.98	
			<i>For Work In Restricted Working Space, Add</i>	272.43	
23 21	13 23-0437	EA	10" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	2,181.10	605.74
			<i>For Schedule 80 Fittings, Add</i>	558.98	
			<i>For Work In Restricted Working Space, Add</i>	272.43	
23 21	13 23-0438	EA	12" x 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	3,574.31	807.60
			<i>For Schedule 80 Fittings, Add</i>	945.16	
			<i>For Work In Restricted Working Space, Add</i>	363.24	
23 21	13 23-0439	EA	12" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	3,574.31	807.60
			<i>For Schedule 80 Fittings, Add</i>	945.16	
			<i>For Work In Restricted Working Space, Add</i>	363.24	
23 21	13 23-0440	EA	12" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow .....	3,994.14	807.60
			<i>For Schedule 80 Fittings, Add</i>	1,071.11	
			<i>For Work In Restricted Working Space, Add</i>	363.24	
<b>23 21 13 23-0441 Welded Plain End Black Steel 45 Degree Elbows (23 21 13 23-0393)</b>					
23 21	13 23-0442	EA	3/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	106.99	61.95
			<i>For Schedule 80 Fittings, Add</i>	22.35	
			<i>For Work In Restricted Working Space, Add</i>	27.86	
23 21	13 23-0443	EA	1" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	110.27	64.13
			<i>For Schedule 80 Fittings, Add</i>	22.99	
			<i>For Work In Restricted Working Space, Add</i>	28.84	
23 21	13 23-0444	EA	1-1/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	124.47	73.64
			<i>For Schedule 80 Fittings, Add</i>	25.76	
			<i>For Work In Restricted Working Space, Add</i>	33.10	
23 21	13 23-0445	EA	1-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	133.22	79.43
			<i>For Schedule 80 Fittings, Add</i>	27.46	
			<i>For Work In Restricted Working Space, Add</i>	35.73	
23 21	13 23-0446	EA	2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	168.18	102.69
			<i>For Schedule 80 Fittings, Add</i>	34.28	
			<i>For Work In Restricted Working Space, Add</i>	46.22	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0447 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	209.83	129.03
For Schedule 80 Fittings, Add	42.64	
For Work In Restricted Working Space, Add	58.01	
23 21 13 23-0448 EA 3" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	242.05	147.60
For Schedule 80 Fittings, Add	49.38	
For Work In Restricted Working Space, Add	66.40	
23 21 13 23-0449 EA 4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	416.78	255.11
For Schedule 80 Fittings, Add	84.87	
For Work In Restricted Working Space, Add	114.76	
23 21 13 23-0450 EA 6" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	715.01	420.73
For Schedule 80 Fittings, Add	148.27	
For Work In Restricted Working Space, Add	189.23	
23 21 13 23-0451 EA 8" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	950.91	529.95
For Schedule 80 Fittings, Add	201.84	
For Work In Restricted Working Space, Add	238.37	
23 21 13 23-0452 EA 10" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	1,195.14	605.74
For Schedule 80 Fittings, Add	263.19	
For Work In Restricted Working Space, Add	272.43	
23 21 13 23-0453 EA 12" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	1,602.17	791.06
For Schedule 80 Fittings, Add	356.13	
For Work In Restricted Working Space, Add	355.79	
23 21 13 23-0454 EA 14" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	1,969.70	938.05
For Schedule 80 Fittings, Add	443.24	
For Work In Restricted Working Space, Add	421.91	
23 21 13 23-0455 EA 16" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	2,409.42	1,092.76
For Schedule 80 Fittings, Add	550.80	
For Work In Restricted Working Space, Add	491.50	
23 21 13 23-0456 EA 18" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	2,819.08	1,218.33
For Schedule 80 Fittings, Add	653.93	
For Work In Restricted Working Space, Add	547.99	
23 21 13 23-0457 EA 20" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	3,509.22	1,367.66
For Schedule 80 Fittings, Add	837.46	
For Work In Restricted Working Space, Add	615.17	
23 21 13 23-0458 EA 24" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow .....	4,025.23	1,413.34
For Schedule 80 Fittings, Add	985.08	
For Work In Restricted Working Space, Add	635.67	
<b>23 21 13 23-0459 Welded Plain End Black Steel Tee (23 21 13 23-0393)</b>		
23 21 13 23-0460 EA 3/4" Standard Weight, Welded Plain End Black Steel Tee .....	217.49	116.57
For Schedule 80 Fittings, Add	46.89	
For Work In Restricted Working Space, Add	52.44	
23 21 13 23-0461 EA 1" Standard Weight, Welded Plain End Black Steel Tee .....	217.43	116.57
For Schedule 80 Fittings, Add	46.88	
For Work In Restricted Working Space, Add	52.43	
23 21 13 23-0462 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Tee .....	245.84	129.68
For Schedule 80 Fittings, Add	53.34	
For Work In Restricted Working Space, Add	58.32	
23 21 13 23-0463 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Tee .....	269.94	145.74
For Schedule 80 Fittings, Add	58.04	
For Work In Restricted Working Space, Add	65.55	
23 21 13 23-0464 EA 2" Standard Weight, Welded Plain End Black Steel Tee .....	337.22	194.58
For Schedule 80 Fittings, Add	70.54	
For Work In Restricted Working Space, Add	87.51	
23 21 13 23-0465 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Tee .....	384.30	218.61
For Schedule 80 Fittings, Add	80.87	
For Work In Restricted Working Space, Add	98.33	
23 21 13 23-0466 EA 3" Standard Weight, Welded Plain End Black Steel Tee .....	460.26	265.49
For Schedule 80 Fittings, Add	96.32	
For Work In Restricted Working Space, Add	119.30	
23 21 13 23-0467 EA 4" Standard Weight, Welded Plain End Black Steel Tee .....	662.07	383.58
For Schedule 80 Fittings, Add	138.24	
For Work In Restricted Working Space, Add	172.50	
23 21 13 23-0468 EA 6" Standard Weight, Welded Plain End Black Steel Tee .....	1,108.48	633.66
For Schedule 80 Fittings, Add	232.79	
For Work In Restricted Working Space, Add	285.01	
23 21 13 23-0469 EA 8" Standard Weight, Welded Plain End Black Steel Tee .....	1,504.19	807.60
For Schedule 80 Fittings, Add	324.12	
For Work In Restricted Working Space, Add	363.24	
23 21 13 23-0470 EA 10" Standard Weight, Welded Plain End Black Steel Tee .....	1,904.53	942.16
For Schedule 80 Fittings, Add	423.04	
For Work In Restricted Working Space, Add	423.78	
23 21 13 23-0471 EA 12" Standard Weight, Welded Plain End Black Steel Tee .....	2,564.37	1,211.39
For Schedule 80 Fittings, Add	578.61	
For Work In Restricted Working Space, Add	544.86	
23 21 13 23-0472 EA 14" Standard Weight, Welded Plain End Black Steel Tee .....	3,321.82	1,413.34
For Schedule 80 Fittings, Add	774.06	
For Work In Restricted Working Space, Add	635.67	
23 21 13 23-0473 EA 16" Standard Weight, Welded Plain End Black Steel Tee .....	3,996.93	1,695.97
For Schedule 80 Fittings, Add	932.10	
For Work In Restricted Working Space, Add	762.80	
23 21 13 23-0474 EA 18" Standard Weight, Welded Plain End Black Steel Tee .....	5,200.66	1,884.42
For Schedule 80 Fittings, Add	1,263.55	
For Work In Restricted Working Space, Add	847.56	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0475 EA 20" Standard Weight, Welded Plain End Black Steel Tee..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,845.76 1,720.00 953.50	2,120.00
23 21 13 23-0476 EA 24" Standard Weight, Welded Plain End Black Steel Tee..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,896.11 2,009.43 1,026.85	2,283.08
<b>23 21 13 23-0477 Welded Plain End Black Steel Reducing Tees</b> (23 21 13 23-0393)		
23 21 13 23-0478 EA 3/4" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.02 45.83 50.80	112.97
23 21 13 23-0479 EA 1" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	217.43 46.88 52.43	116.57
23 21 13 23-0480 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	243.12 52.52 58.32	129.68
23 21 13 23-0481 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	267.22 57.22 65.55	145.74
23 21 13 23-0482 EA 2" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	343.36 72.37 87.54	194.58
23 21 13 23-0483 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	384.43 80.90 98.37	218.73
23 21 13 23-0484 EA 3" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	460.55 96.41 119.30	265.49
23 21 13 23-0485 EA 4" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	662.47 138.36 172.50	383.58
23 21 13 23-0486 EA 6" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,109.17 233.00 285.01	633.66
23 21 13 23-0487 EA 8" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,505.52 324.52 363.24	807.60
23 21 13 23-0488 EA 10" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,906.77 423.71 423.78	942.16
23 21 13 23-0489 EA 12" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,567.77 579.63 544.86	1,211.39
23 21 13 23-0490 EA 14" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,327.28 775.70 635.67	1,413.34
23 21 13 23-0491 EA 16" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,003.55 934.08 762.80	1,695.97
23 21 13 23-0492 EA 18" Standard Weight, Welded Plain End Black Steel Reducing Tee ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,211.48 1,266.80 847.56	1,884.42
<b>23 21 13 23-0493 Welded Plain End Black Steel Eccentric Reducers</b> (23 21 13 23-0393)		
23 21 13 23-0494 EA 3" x 2" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	257.85 54.18 -11.88 66.21	147.16
23 21 13 23-0495 EA 4" x 3" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	428.34 88.25 -14.40 115.00	255.64
23 21 13 23-0496 EA 4" x 2" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	441.28 92.13 -18.54 115.00	255.64
23 21 13 23-0497 EA 6" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	715.26 149.03 -29.11 187.29	416.36
23 21 13 23-0498 EA 6" x 3" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	781.51 168.90 -50.31 187.29	416.36
23 21 13 23-0499 EA 8" x 6" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,085.98 226.04 -43.51 285.01	633.66
23 21 13 23-0500 EA 8" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,184.74 255.67 -75.11 285.01	633.66



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0501 EA 10" x 8" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,252.89 261.15 -51.32 327.75	728.71
23 21 13 23-0502 EA 10" x 6" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,377.09 298.41 -91.07 327.75	728.71
23 21 13 23-0503 EA 12" x 10" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,460.82 311.35 -80.74 362.55	806.02
23 21 13 23-0504 EA 12" x 8" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,604.64 354.50 -126.76 362.55	806.02
23 21 13 23-0505 EA 14" x 12" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,855.67 408.38 -141.78 423.78	942.16
23 21 13 23-0506 EA 14" x 10" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,935.89 432.44 -167.45 423.78	942.16
23 21 13 23-0507 EA 16" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,190.71 490.35 -192.49 476.75	1,060.01
23 21 13 23-0508 EA 16" x 12" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,397.07 552.26 -258.52 476.75	1,060.01
23 21 13 23-0509 EA 18" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer ..... <i>For Schedule 80 Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,794.25 647.58 -312.98 544.86	1,211.39
<b>23 21 13 23-0510 Welded Plain End Black Steel Caps (23 21 13 23-0393)</b>		
23 21 13 23-0511 EA 1" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.66 12.27 16.39	36.49
23 21 13 23-0512 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.70 13.40 18.03	40.09
23 21 13 23-0513 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	72.45 13.95 18.68	41.52
23 21 13 23-0514 EA 2" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.95 17.01 23.93	53.20
23 21 13 23-0515 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	106.33 19.88 28.85	64.13
23 21 13 23-0516 EA 3" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.62 23.82 33.28	73.96
23 21 13 23-0517 EA 4" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	211.23 39.41 57.50	127.82
23 21 13 23-0518 EA 6" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	353.81 66.56 95.00	211.19
23 21 13 23-0519 EA 8" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	588.68 109.99 159.88	355.51
23 21 13 23-0520 EA 10" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	658.07 127.39 168.08	373.75
23 21 13 23-0521 EA 12" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	713.61 140.17 177.40	394.41
23 21 13 23-0522 EA 14" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	936.17 192.56 211.89	471.08
23 21 13 23-0523 EA 16" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,087.24 223.64 246.07	547.07
23 21 13 23-0524 EA 18" Standard Weight, Welded Plain End Black Steel Cap ..... <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,215.20 251.05 272.43	605.74

23 21 13 23-0525 150 LB, Welded Plain End Black Steel Neck Flanges (23 21 13 23-0393)  
Note: 150 LB.

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0526 EA 2", 150 LB, Welded Plain End Black Steel Neck Flange.....	173.36	82.37
For 300 LB Rating, Add	47.87	
For Work In Restricted Working Space, Add	37.05	
23 21 13 23-0527 EA 2-1/2", 150 LB, Welded Plain End Black Steel Neck Flange.....	203.97	102.80
For 300 LB Rating, Add	51.08	
For Work In Restricted Working Space, Add	46.23	
23 21 13 23-0528 EA 3", 150 LB, Welded Plain End Black Steel Neck Flange.....	226.14	117.56
For 300 LB Rating, Add	53.45	
For Work In Restricted Working Space, Add	52.87	
23 21 13 23-0529 EA 4", 150 LB, Welded Plain End Black Steel Neck Flange.....	296.05	155.03
For 300 LB Rating, Add	68.93	
For Work In Restricted Working Space, Add	69.74	
23 21 13 23-0530 EA 6", 150 LB, Welded Plain End Black Steel Neck Flange.....	450.28	235.11
For 300 LB Rating, Add	105.51	
For Work In Restricted Working Space, Add	105.73	
23 21 13 23-0531 EA 8", 150 LB, Welded Plain End Black Steel Neck Flange.....	513.87	229.23
For 300 LB Rating, Add	155.27	
For Work In Restricted Working Space, Add	103.08	
23 21 13 23-0532 EA 10", 150 LB, Welded Plain End Black Steel Neck Flange.....	710.84	287.42
For 300 LB Rating, Add	241.17	
For Work In Restricted Working Space, Add	129.29	
23 21 13 23-0533 EA 12", 150 LB, Welded Plain End Black Steel Neck Flange.....	897.06	326.14
For 300 LB Rating, Add	337.00	
For Work In Restricted Working Space, Add	146.69	
23 21 13 23-0534 EA 14", 150 LB, Welded Plain End Black Steel Neck Flange.....	1,210.84	394.41
For 300 LB Rating, Add	495.75	
For Work In Restricted Working Space, Add	177.40	
23 21 13 23-0535 EA 16", 150 LB, Welded Plain End Black Steel Neck Flange.....	1,655.13	458.37
For 300 LB Rating, Add	749.70	
For Work In Restricted Working Space, Add	206.16	
23 21 13 23-0536 EA 18", 150 LB, Welded Plain End Black Steel Neck Flange.....	2,114.24	513.91
For 300 LB Rating, Add	1,021.51	
For Work In Restricted Working Space, Add	231.15	
23 21 13 23-0537 EA 20", 150 LB, Welded Plain End Black Steel Neck Flange.....	2,679.86	652.30
For 300 LB Rating, Add	1,294.02	
For Work In Restricted Working Space, Add	293.39	
23 21 13 23-0538 EA 24", 150 LB, Welded Plain End Black Steel Neck Flange.....	3,080.42	706.67
For 300 LB Rating, Add	1,525.92	
For Work In Restricted Working Space, Add	317.84	
<b>23 21 13 23-0539 150 LB, Welded Black Steel Slip-On Flanges (23 21 13 23-0393)</b>		
23 21 13 23-0540 EA 2", 150 LB, Welded Black Steel Slip-On Flanges.....	122.84	82.37
For 300 LB Rating, Add	32.38	
For Work In Restricted Working Space, Add	29.50	
23 21 13 23-0541 EA 2-1/2", 150 LB, Welded Black Steel Slip-On Flange.....	151.64	102.80
For 300 LB Rating, Add	40.94	
For Work In Restricted Working Space, Add	36.05	
23 21 13 23-0542 EA 3", 150 LB, Welded Black Steel Slip-On Flange.....	179.06	117.56
For 300 LB Rating, Add	48.24	
For Work In Restricted Working Space, Add	42.61	
23 21 13 23-0543 EA 4", 150 LB, Welded Black Steel Slip-On Flange.....	236.26	155.03
For 300 LB Rating, Add	64.98	
For Work In Restricted Working Space, Add	55.72	
23 21 13 23-0544 EA 6", 150 LB, Welded Black Steel Slip-On Flange.....	350.89	235.11
For 300 LB Rating, Add	98.66	
For Work In Restricted Working Space, Add	81.94	
23 21 13 23-0545 EA 8", 150 LB, Welded Black Steel Slip-On Flange.....	431.24	229.23
For 300 LB Rating, Add	139.33	
For Work In Restricted Working Space, Add	93.88	
23 21 13 23-0546 EA 10", 150 LB, Welded Black Steel Slip-On Flange.....	595.42	287.42
For 300 LB Rating, Add	224.88	
For Work In Restricted Working Space, Add	117.36	
23 21 13 23-0547 EA 12", 150 LB, Welded Black Steel Slip-On Flange.....	791.66	326.14
For 300 LB Rating, Add	339.31	
For Work In Restricted Working Space, Add	140.83	
23 21 13 23-0548 EA 14", 150 LB, Welded Black Steel Slip-On Flange.....	1,018.46	394.41
For 300 LB Rating, Add	481.22	
For Work In Restricted Working Space, Add	164.30	
23 21 13 23-0549 EA 16", 150 LB, Welded Black Steel Slip-On Flange.....	1,240.21	458.37
For 300 LB Rating, Add	634.16	
For Work In Restricted Working Space, Add	181.90	
23 21 13 23-0550 EA 18", 150 LB, Welded Black Steel Slip-On Flange.....	1,375.74	513.91
For 300 LB Rating, Add	709.49	
For Work In Restricted Working Space, Add	199.50	
23 21 13 23-0551 EA 20", 150 LB, Welded Black Steel Slip-On Flange.....	1,531.55	652.30
For 300 LB Rating, Add	803.06	
For Work In Restricted Working Space, Add	217.11	
23 21 13 23-0552 EA 24", 150 LB, Welded Black Steel Slip-On Flange.....	1,748.74	706.67
For 300 LB Rating, Add	905.25	
For Work In Restricted Working Space, Add	252.31	
<b>23 21 13 23-0553 150 LB, Forged Steel Blind Flanges (23 21 13 23-0393)</b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0554 EA 2", 150 LB, Forged Steel Blind Flange.....	86.95	29.41
<i>For 300 LB Rating, Add</i>	28.69	
<i>For 600 LB Rating, Add</i>	76.36	
<i>For Work In Restricted Working Space, Add</i>	17.64	
23 21 13 23-0555 EA 2-1/2", 150 LB, Forged Steel Blind Flange.....	116.20	35.28
<i>For 300 LB Rating, Add</i>	43.91	
<i>For 600 LB Rating, Add</i>	120.10	
<i>For Work In Restricted Working Space, Add</i>	21.17	
23 21 13 23-0556 EA 3", 150 LB, Forged Steel Blind Flange.....	141.29	47.05
<i>For 300 LB Rating, Add</i>	47.64	
<i>For 600 LB Rating, Add</i>	127.39	
<i>For Work In Restricted Working Space, Add</i>	28.23	
23 21 13 23-0557 EA 4", 150 LB, Forged Steel Blind Flange.....	182.67	58.81
<i>For 300 LB Rating, Add</i>	64.39	
<i>For 600 LB Rating, Add</i>	173.76	
<i>For Work In Restricted Working Space, Add</i>	35.29	
23 21 13 23-0558 EA 6", 150 LB, Forged Steel Blind Flange.....	251.48	76.46
<i>For 300 LB Rating, Add</i>	94.92	
<i>For 600 LB Rating, Add</i>	259.53	
<i>For Work In Restricted Working Space, Add</i>	45.87	
23 21 13 23-0559 EA 8", 150 LB, Forged Steel Blind Flange.....	332.80	88.22
<i>For 300 LB Rating, Add</i>	143.62	
<i>For 600 LB Rating, Add</i>	401.75	
<i>For Work In Restricted Working Space, Add</i>	52.93	
23 21 13 23-0560 EA 10", 150 LB, Forged Steel Blind Flange.....	517.07	105.86
<i>For 300 LB Rating, Add</i>	266.51	
<i>For 600 LB Rating, Add</i>	764.60	
<i>For Work In Restricted Working Space, Add</i>	63.52	
23 21 13 23-0561 EA 12", 150 LB, Forged Steel Blind Flange.....	679.20	123.50
<i>For 300 LB Rating, Add</i>	371.69	
<i>For 600 LB Rating, Add</i>	1,074.31	
<i>For Work In Restricted Working Space, Add</i>	74.10	
23 21 13 23-0562 EA 14", 150 LB, Forged Steel Blind Flange.....	1,172.15	141.15
<i>For 300 LB Rating, Add</i>	741.53	
<i>For Work In Restricted Working Space, Add</i>	84.69	
23 21 13 23-0563 EA 16", 150 LB, Forged Steel Blind Flange.....	1,255.55	158.78
<i>For 300 LB Rating, Add</i>	783.72	
<i>For Work In Restricted Working Space, Add</i>	95.27	
23 21 13 23-0564 EA 18", 150 LB, Forged Steel Blind Flange.....	1,406.90	194.08
<i>For 300 LB Rating, Add</i>	855.76	
<i>For Work In Restricted Working Space, Add</i>	116.45	
23 21 13 23-0565 EA 20", 150 LB, Forged Steel Blind Flange.....	1,818.29	211.72
<i>For 300 LB Rating, Add</i>	1,160.34	
<i>For Work In Restricted Working Space, Add</i>	127.03	
23 21 13 23-0566 EA 24", 150 LB, Forged Steel Blind Flange.....	2,490.97	247.01
<i>For 300 LB Rating, Add</i>	1,649.44	
<i>For Work In Restricted Working Space, Add</i>	148.20	
<b>23 21 13 23-0567 3,000 LB, Forge Steel Thread-O-Lets (23 21 13 23-0393)</b>		
23 21 13 23-0568 EA 1/2", 3,000 LB, Forge Steel Thread-O-Let.....	85.15	
<i>For Weld-O-Lets, Add</i>	6.16	
<i>For Sock-O-Lets, Add</i>	32.97	
<i>For Work In Restricted Working Space, Add</i>	21.85	
23 21 13 23-0569 EA 3/4", 3,000 LB, Forge Steel Thread-O-Let.....	101.87	
<i>For Weld-O-Lets, Add</i>	7.24	
<i>For Sock-O-Lets, Add</i>	39.43	
<i>For Work In Restricted Working Space, Add</i>	26.22	
23 21 13 23-0570 EA 1", 3,000 LB, Forge Steel Thread-O-Let.....	115.54	
<i>For Weld-O-Lets, Add</i>	8.11	
<i>For Sock-O-Lets, Add</i>	44.72	
<i>For Work In Restricted Working Space, Add</i>	29.80	
23 21 13 23-0571 EA 1-1/4" Or 1-1/2", 3,000 LB, Forge Steel Thread-O-Let.....	132.27	
<i>For Weld-O-Lets, Add</i>	11.51	
<i>For Sock-O-Lets, Add</i>	51.41	
<i>For Work In Restricted Working Space, Add</i>	32.78	
23 21 13 23-0572 EA 2", 3,000 LB, Forge Steel Thread-O-Let.....	150.16	
<i>For Weld-O-Lets, Add</i>	14.39	
<i>For Sock-O-Lets, Add</i>	58.50	
<i>For Work In Restricted Working Space, Add</i>	36.42	
23 21 13 23-0573 EA 2-1/2", 3,000 LB, Forge Steel Thread-O-Let.....	260.50	
<i>For Weld-O-Lets, Add</i>	52.21	
<i>For Sock-O-Lets, Add</i>	104.21	
<i>For Work In Restricted Working Space, Add</i>	46.82	
23 21 13 23-0574 EA 3", 3,000 LB, Forge Steel Thread-O-Let.....	323.53	
<i>For Weld-O-Lets, Add</i>	52.52	
<i>For Sock-O-Lets, Add</i>	128.19	
<i>For Work In Restricted Working Space, Add</i>	65.55	
23 21 13 23-0575 EA 4", 3,000 LB, Forge Steel Thread-O-Let.....	478.73	
<i>For Weld-O-Lets, Add</i>	102.80	
<i>For Sock-O-Lets, Add</i>	192.20	
<i>For Work In Restricted Working Space, Add</i>	81.94	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)**

**23 20 HVAC Piping And Pumps**

**23 21 Hydronic Piping And Pumps**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

23 21 13 23-0576	<b>Class 150 Flange, Steel Bolt And Gasket Sets</b> <small>(23 21 13 23-0393)</small>		
	Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0577	EA	3/4" To 1-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	12.09
		Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.	
		For Zinc Plated, Add	3.39
		For Hot Dip Galvanized, Add	4.84
		For Advanced Fluoropolymer (Blue Coating), Add	8.46
23 21 13 23-0578	EA	2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	15.41
		Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	4.31
		For Hot Dip Galvanized, Add	6.16
		For Advanced Fluoropolymer (Blue Coating), Add	10.79
23 21 13 23-0579	EA	2-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	15.56
		Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	4.36
		For Hot Dip Galvanized, Add	6.22
		For Advanced Fluoropolymer (Blue Coating), Add	10.89
23 21 13 23-0580	EA	3" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	15.61
		Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	4.37
		For Hot Dip Galvanized, Add	6.24
		For Advanced Fluoropolymer (Blue Coating), Add	10.93
23 21 13 23-0581	EA	4" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	35.36
		Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	9.90
		For Hot Dip Galvanized, Add	14.14
		For Advanced Fluoropolymer (Blue Coating), Add	24.75
23 21 13 23-0582	EA	5" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	50.54
		Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.	
		For Zinc Plated, Add	14.15
		For Hot Dip Galvanized, Add	20.22
		For Advanced Fluoropolymer (Blue Coating), Add	35.38
23 21 13 23-0583	EA	6" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	54.58
		Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.	
		For Zinc Plated, Add	15.28
		For Hot Dip Galvanized, Add	21.83
		For Advanced Fluoropolymer (Blue Coating), Add	38.21
23 21 13 23-0584	EA	8" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	59.67
		Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.	
		For Zinc Plated, Add	16.71
		For Hot Dip Galvanized, Add	23.87
		For Advanced Fluoropolymer (Blue Coating), Add	41.77
23 21 13 23-0585	EA	10" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	132.53
		Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	37.11
		For Hot Dip Galvanized, Add	53.01
		For Advanced Fluoropolymer (Blue Coating), Add	92.77
23 21 13 23-0586	EA	12" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	134.67
		Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	37.71
		For Hot Dip Galvanized, Add	53.87
		For Advanced Fluoropolymer (Blue Coating), Add	94.27
23 21 13 23-0587	EA	14" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	150.99
		Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.	
		For Zinc Plated, Add	42.28
		For Hot Dip Galvanized, Add	60.40
		For Advanced Fluoropolymer (Blue Coating), Add	105.69
23 21 13 23-0588	EA	16" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	251.70
		Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.	
		For Zinc Plated, Add	70.48
		For Hot Dip Galvanized, Add	100.68
		For Advanced Fluoropolymer (Blue Coating), Add	176.19
23 21 13 23-0589	EA	18" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	363.72
		Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	101.84
		For Hot Dip Galvanized, Add	145.49
		For Advanced Fluoropolymer (Blue Coating), Add	254.60
23 21 13 23-0590	EA	20" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	459.44
		Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	128.64
		For Hot Dip Galvanized, Add	183.78
		For Advanced Fluoropolymer (Blue Coating), Add	321.61
23 21 13 23-0591	EA	24" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	655.56
		Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.	
		For Zinc Plated, Add	183.56
		For Hot Dip Galvanized, Add	262.22
		For Advanced Fluoropolymer (Blue Coating), Add	458.89
23 21 13 23-0592	EA	30" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,035.20
		Note: Includes rubber gasket, and twenty-eight (28) 1-1/4" diameter bolts with washers and nut.	
		For Zinc Plated, Add	289.86
		For Hot Dip Galvanized, Add	414.08
		For Advanced Fluoropolymer (Blue Coating), Add	724.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0593 EA 36" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,474.22	
Note: Includes rubber gasket, and thirty-two (32) 1-1/2" diameter bolts with washers and nut.		
For Zinc Plated, Add	412.78	
For Hot Dip Galvanized, Add	589.69	
For Advanced Fluoropolymer (Blue Coating), Add	1,031.95	
<b>23 21 13 23-0594 Class 300 Flange, Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small></b>		
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0595 EA 3/4" To 1-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set .....	18.86	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	5.28	
For Hot Dip Galvanized, Add	7.54	
For Advanced Fluoropolymer (Blue Coating), Add	13.20	
23 21 13 23-0596 EA 2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	35.43	
Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	9.92	
For Hot Dip Galvanized, Add	14.17	
For Advanced Fluoropolymer (Blue Coating), Add	24.80	
23 21 13 23-0597 EA 2-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	55.67	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	15.59	
For Hot Dip Galvanized, Add	22.27	
For Advanced Fluoropolymer (Blue Coating), Add	38.97	
23 21 13 23-0598 EA 3" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	60.48	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	16.93	
For Hot Dip Galvanized, Add	24.19	
For Advanced Fluoropolymer (Blue Coating), Add	42.34	
23 21 13 23-0599 EA 4" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	61.69	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	17.27	
For Hot Dip Galvanized, Add	24.68	
For Advanced Fluoropolymer (Blue Coating), Add	43.18	
23 21 13 23-0600 EA 5" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	65.33	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	18.29	
For Hot Dip Galvanized, Add	26.13	
For Advanced Fluoropolymer (Blue Coating), Add	45.73	
23 21 13 23-0601 EA 6" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	95.10	
Note: Includes rubber gasket, and twelve (12) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	26.63	
For Hot Dip Galvanized, Add	38.04	
For Advanced Fluoropolymer (Blue Coating), Add	66.57	
23 21 13 23-0602 EA 8" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	147.85	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	41.40	
For Hot Dip Galvanized, Add	59.14	
For Advanced Fluoropolymer (Blue Coating), Add	103.50	
23 21 13 23-0603 EA 10" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	272.35	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	76.26	
For Hot Dip Galvanized, Add	108.94	
For Advanced Fluoropolymer (Blue Coating), Add	190.65	
23 21 13 23-0604 EA 12" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	393.88	
Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	110.29	
For Hot Dip Galvanized, Add	157.55	
For Advanced Fluoropolymer (Blue Coating), Add	275.72	
23 21 13 23-0605 EA 14" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	539.66	
Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	151.10	
For Hot Dip Galvanized, Add	215.86	
For Advanced Fluoropolymer (Blue Coating), Add	377.76	
23 21 13 23-0606 EA 16" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	746.16	
Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	208.92	
For Hot Dip Galvanized, Add	298.46	
For Advanced Fluoropolymer (Blue Coating), Add	522.31	
23 21 13 23-0607 EA 18" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	957.60	
Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	268.13	
For Hot Dip Galvanized, Add	383.04	
For Advanced Fluoropolymer (Blue Coating), Add	670.32	
23 21 13 23-0608 EA 20" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,015.69	
Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	284.39	
For Hot Dip Galvanized, Add	406.28	
For Advanced Fluoropolymer (Blue Coating), Add	710.98	
23 21 13 23-0609 EA 24" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,286.31	
Note: Includes rubber gasket, and twenty-four (24) 1-1/2" diameter bolts with washers and nut.		
For Zinc Plated, Add	360.17	
For Hot Dip Galvanized, Add	514.52	
For Advanced Fluoropolymer (Blue Coating), Add	900.42	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0610	EA	30" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set..... Note: Includes rubber gasket, and twenty-eight (28) 1-3/4" diameter bolts with washers and nut.	2,017.12	
			<i>For Zinc Plated, Add</i>	564.79	
			<i>For Hot Dip Galvanized, Add</i>	806.85	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	1,411.98	
23 21	13 23-0611	EA	36" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set..... Note: Includes rubber gasket, and thirty-two (32) 2" diameter bolts with washers and nut.	3,069.90	
			<i>For Zinc Plated, Add</i>	859.57	
			<i>For Hot Dip Galvanized, Add</i>	1,227.96	
			<i>For Advanced Fluoropolymer (Blue Coating), Add</i>	2,148.93	
23 21	13 23-0612		<b>Class 150 Flange, Stainless Steel Bolt And Gasket Sets</b> <small>(23 21 13 23-0393)</small> Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21	13 23-0613	EA	3/4" To 1-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set..... Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.	12.09	
23 21	13 23-0614	EA	2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.	26.36	
23 21	13 23-0615	EA	2-1/2" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.	26.41	
23 21	13 23-0616	EA	3" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.	26.46	
23 21	13 23-0617	EA	4" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.	55.81	
23 21	13 23-0618	EA	5" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.	70.83	
23 21	13 23-0619	EA	6" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.	79.93	
23 21	13 23-0620	EA	8" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.	80.46	
23 21	13 23-0621	EA	10" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.	207.22	
23 21	13 23-0622	EA	12" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.	208.22	
23 21	13 23-0623	EA	14" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.	314.90	
23 21	13 23-0624	EA	16" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.	419.44	
23 21	13 23-0625	EA	18" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.	1,088.53	
23 21	13 23-0626	EA	20" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.	1,261.30	
23 21	13 23-0627	EA	24" Pipe Diameter, Class 150 Flange, Stainless Steel Bolt And Gasket Set ..... Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.	1,456.37	
23 21	13 23-0628		<b>150 LB, Rubber Flange Gasket Replacement</b> <small>(23 21 13 23-0393)</small> Note: Includes unbolting, removal of old gaskets, new 150 LB rubber gasket and rebolting.		
23 21	13 23-0629	EA	1/2", 150 LB, Rubber Flange Gasket Replacement ..... <i>For 300 LB Rating Gasket Set, Add</i>	32.55 0.02	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	0.54	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	0.62	
			<i>For Work In Restricted Working Space, Add</i>	9.74	
23 21	13 23-0630	EA	3/4", 150 LB, Rubber Flange Gasket Replacement ..... <i>For 300 LB Rating Gasket Set, Add</i>	34.75 0.04	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	0.77	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	0.89	
			<i>For Work In Restricted Working Space, Add</i>	10.40	
23 21	13 23-0631	EA	1", 150 LB, Rubber Flange Gasket Replacement ..... <i>For 300 LB Rating Gasket Set, Add</i>	38.06 0.06	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	1.31	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	1.51	
			<i>For Work In Restricted Working Space, Add</i>	11.37	
23 21	13 23-0632	EA	1-1/4", 150 LB, Rubber Flange Gasket Replacement ..... <i>For 300 LB Rating Gasket Set, Add</i>	41.33 0.07	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	1.47	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	1.69	
			<i>For Work In Restricted Working Space, Add</i>	12.34	
23 21	13 23-0633	EA	1-1/2", 150 LB, Rubber Flange Gasket Replacement ..... <i>For 300 LB Rating Gasket Set, Add</i>	45.71 0.08	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	1.86	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	2.14	
			<i>For Work In Restricted Working Space, Add</i>	13.64	
23 21	13 23-0634	EA	2", 150 LB, Rubber Flange Gasket Replacement ..... <i>For 300 LB Rating Gasket Set, Add</i>	50.15 0.12	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	2.63	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	3.03	
			<i>For Work In Restricted Working Space, Add</i>	14.94	
23 21	13 23-0635	EA	2-1/2", 150 LB, Rubber Flange Gasket Replacement ..... <i>For 300 LB Rating Gasket Set, Add</i>	58.92 0.16	
			<i>For 150 LB Rating Teflon Gasket Set, Add</i>	3.56	
			<i>For 300 LB Rating Teflon Gasket Set, Add</i>	4.09	
			<i>For Work In Restricted Working Space, Add</i>	17.54	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0636 EA 3", 150 LB, Rubber Flange Gasket Replacement.....	62.24	
<i>For 300 LB Rating Gasket Set, Add</i>	0.19	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	4.10	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	4.72	
<i>For Work In Restricted Working Space, Add</i>	18.51	
23 21 13 23-0637 EA 4", 150 LB, Rubber Flange Gasket Replacement.....	82.07	
<i>For 300 LB Rating Gasket Set, Add</i>	0.30	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	6.73	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	7.74	
<i>For Work In Restricted Working Space, Add</i>	24.36	
23 21 13 23-0638 EA 5", 150 LB, Rubber Flange Gasket Replacement.....	95.17	
<i>For 300 LB Rating Gasket Set, Add</i>	0.34	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	7.50	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	8.63	
<i>For Work In Restricted Working Space, Add</i>	28.26	
23 21 13 23-0639 EA 6", 150 LB, Rubber Flange Gasket Replacement.....	108.44	
<i>For 300 LB Rating Gasket Set, Add</i>	0.44	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	9.74	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	11.21	
<i>For Work In Restricted Working Space, Add</i>	32.15	
23 21 13 23-0640 EA 8", 150 LB, Rubber Flange Gasket Replacement.....	131.76	
<i>For 300 LB Rating Gasket Set, Add</i>	0.64	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	14.22	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	16.38	
<i>For Work In Restricted Working Space, Add</i>	38.98	
23 21 13 23-0641 EA 10", 150 LB, Rubber Flange Gasket Replacement.....	141.20	
<i>For 300 LB Rating Gasket Set, Add</i>	0.92	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	20.25	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	23.32	
<i>For Work In Restricted Working Space, Add</i>	41.57	
23 21 13 23-0642 EA 12", 150 LB, Rubber Flange Gasket Replacement.....	160.33	
<i>For 300 LB Rating Gasket Set, Add</i>	1.17	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	25.82	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	29.73	
<i>For Work In Restricted Working Space, Add</i>	47.10	
23 21 13 23-0643 EA 14", 150 LB, Rubber Flange Gasket Replacement.....	166.40	
<i>For 300 LB Rating Gasket Set, Add</i>	1.40	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	30.92	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	35.60	
<i>For Work In Restricted Working Space, Add</i>	48.72	
23 21 13 23-0644 EA 16", 150 LB, Rubber Flange Gasket Replacement.....	220.99	
<i>For 300 LB Rating Gasket Set, Add</i>	1.56	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	34.48	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	39.69	
<i>For Work In Restricted Working Space, Add</i>	64.96	
23 21 13 23-0645 EA 18", 150 LB, Rubber Flange Gasket Replacement.....	241.74	
<i>For 300 LB Rating Gasket Set, Add</i>	1.63	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	35.94	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	41.39	
<i>For Work In Restricted Working Space, Add</i>	71.13	
23 21 13 23-0646 EA 20", 150 LB, Rubber Flange Gasket Replacement.....	294.04	
<i>For 300 LB Rating Gasket Set, Add</i>	1.75	
<i>For 150 LB Rating Teflon Gasket Set, Add</i>	38.57	
<i>For 300 LB Rating Teflon Gasket Set, Add</i>	44.41	
<i>For Work In Restricted Working Space, Add</i>	86.72	
<b>23 21 13 23-0647 Cut And Prepare For Welding Existing In-Place Black Steel Pipe</b> <small>(23 21 13 23-0393)</small>		
<i>Note: For use when connecting pipe to an existing in-place system.</i>		
23 21 13 23-0648 EA 1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	23.52	
<i>For Work In Restricted Working Space, Add</i>	7.06	
23 21 13 23-0649 EA 3/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	25.40	
<i>For Work In Restricted Working Space, Add</i>	7.62	
23 21 13 23-0650 EA 1", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	28.57	
<i>For Work In Restricted Working Space, Add</i>	8.57	
23 21 13 23-0651 EA 1-1/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	29.99	
<i>For Work In Restricted Working Space, Add</i>	9.00	
23 21 13 23-0652 EA 1-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	31.75	
<i>For Work In Restricted Working Space, Add</i>	9.53	
23 21 13 23-0653 EA 2", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	34.10	
<i>For Work In Restricted Working Space, Add</i>	10.23	
23 21 13 23-0654 EA 2-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	36.45	
<i>For Work In Restricted Working Space, Add</i>	10.94	
23 21 13 23-0655 EA 3", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	39.98	
<i>For Work In Restricted Working Space, Add</i>	11.99	
23 21 13 23-0656 EA 4", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	43.50	
<i>For Work In Restricted Working Space, Add</i>	13.05	
23 21 13 23-0657 EA 6", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	47.03	
<i>For Work In Restricted Working Space, Add</i>	14.11	
23 21 13 23-0658 EA 8", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	50.57	
<i>For Work In Restricted Working Space, Add</i>	15.17	
23 21 13 23-0659 EA 10", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	55.27	
<i>For Work In Restricted Working Space, Add</i>	16.58	
23 21 13 23-0660 EA 12", Cut And Prepare For Welding Existing In Place Black Steel Pipe.....	59.97	
<i>For Work In Restricted Working Space, Add</i>	17.99	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0661 EA 14", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	64.67	
<i>For Work In Restricted Working Space, Add</i>	19.40	
23 21 13 23-0662 EA 16", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	69.37	
<i>For Work In Restricted Working Space, Add</i>	20.81	
23 21 13 23-0663 EA 18", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	72.91	
<i>For Work In Restricted Working Space, Add</i>	21.87	
23 21 13 23-0664 EA 20", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	76.44	
<i>For Work In Restricted Working Space, Add</i>	22.93	
23 21 13 23-0665 EA 24", Cut And Prepare For Welding Existing In Place Black Steel Pipe .....	81.14	
<i>For Work In Restricted Working Space, Add</i>	24.34	
<b>23 21 13 23-0666 Welded Plain End Electric Resistance Black Steel Pipe</b> <small>(23 21 13 23-0393)</small>		
Note: ASTM A-135.		
23 21 13 23-0667 LF 2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	22.76	12.02
<i>For Work In Restricted Working Space, Add</i>	5.90	
23 21 13 23-0668 LF 2-1/2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	24.43	13.11
<i>For Work In Restricted Working Space, Add</i>	5.90	
23 21 13 23-0669 LF 3" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	25.16	12.89
<i>For Work In Restricted Working Space, Add</i>	5.78	
23 21 13 23-0670 LF 4" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	31.66	16.38
<i>For Work In Restricted Working Space, Add</i>	7.37	
23 21 13 23-0671 LF 6" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	50.09	24.26
<i>For Work In Restricted Working Space, Add</i>	10.90	
23 21 13 23-0672 LF 8,322" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	59.49	26.70
<i>For Work In Restricted Working Space, Add</i>	12.03	
23 21 13 23-0673 LF 10,365" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	78.70	33.25
<i>For Work In Restricted Working Space, Add</i>	14.96	
23 21 13 23-0674 LF 12,375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	95.35	40.09
<i>For Work In Restricted Working Space, Add</i>	18.03	
23 21 13 23-0675 LF 14,375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings.....	122.26	52.03
<i>For Work In Restricted Working Space, Add</i>	23.41	
<b>23 21 13 23-0676 Flanged Steel Fittings</b> <small>(23 21 13 23)</small>		
See CSI section 23 21 13 23-0394 for steel pipe, 23 21 13 23-0525 for welded neck flange ends.		
<b>23 21 13 23-0677 Flanged Steel Fittings, Standard Weight</b> <small>(23 21 13 23-0676)</small>		
Note: Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
<b>23 21 13 23-0678 Flanged Steel, 90 Degree Elbows</b> <small>(23 21 13 23-0677)</small>		
23 21 13 23-0679 EA 2" Standard Weight, Flanged Steel, 90 Degree Elbow .....	579.92	50.54
<i>For Galvanized Fittings, Add</i>	403.33	
<i>For Extra Heavy Weight Fittings, Add</i>	604.99	
23 21 13 23-0680 EA 2-1/2" Standard Weight, Flanged Steel, 90 Degree Elbow .....	646.85	56.28
<i>For Galvanized Fittings, Add</i>	449.94	
<i>For Extra Heavy Weight Fittings, Add</i>	674.92	
23 21 13 23-0681 EA 3" Standard Weight, Flanged Steel, 90 Degree Elbow .....	640.30	62.12
<i>For Galvanized Fittings, Add</i>	437.78	
<i>For Extra Heavy Weight Fittings, Add</i>	656.68	
23 21 13 23-0682 EA 4" Standard Weight, Flanged Steel, 90 Degree Elbow .....	815.07	72.19
<i>For Galvanized Fittings, Add</i>	565.47	
<i>For Extra Heavy Weight Fittings, Add</i>	848.21	
23 21 13 23-0683 EA 5" Standard Weight, Flanged Steel, 90 Degree Elbow .....	1,147.28	80.84
<i>For Galvanized Fittings, Add</i>	820.85	
<i>For Extra Heavy Weight Fittings, Add</i>	1,231.27	
23 21 13 23-0684 EA 6" Standard Weight, Flanged Steel, 90 Degree Elbow .....	1,209.82	93.83
<i>For Galvanized Fittings, Add</i>	855.30	
<i>For Extra Heavy Weight Fittings, Add</i>	1,282.96	
23 21 13 23-0685 EA 8" Standard Weight, Flanged Steel, 90 Degree Elbow .....	1,540.89	103.90
<i>For Galvanized Fittings, Add</i>	1,108.03	
<i>For Extra Heavy Weight Fittings, Add</i>	1,662.05	
<b>23 21 13 23-0686 Flanged Steel, Reducing 90 Degree Elbows</b> <small>(23 21 13 23-0677)</small>		
23 21 13 23-0687 EA 2-1/2" x 2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....	1,098.55	53.47
<i>For Galvanized Fittings, Add</i>	814.77	
<i>For Extra Heavy Weight Fittings, Add</i>	1,222.15	
23 21 13 23-0688 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....	1,142.67	59.20
<i>For Galvanized Fittings, Add</i>	843.14	
<i>For Extra Heavy Weight Fittings, Add</i>	1,264.72	
23 21 13 23-0689 EA 4" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....	1,425.67	67.10
<i>For Galvanized Fittings, Add</i>	1,060.02	
<i>For Extra Heavy Weight Fittings, Add</i>	1,590.02	
23 21 13 23-0690 EA 5" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....	1,769.11	71.43
<i>For Galvanized Fittings, Add</i>	1,329.58	
<i>For Extra Heavy Weight Fittings, Add</i>	1,994.36	
23 21 13 23-0691 EA 6" x 4" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow .....	2,014.44	83.00
<i>For Galvanized Fittings, Add</i>	1,511.98	
<i>For Extra Heavy Weight Fittings, Add</i>	2,267.98	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0692 EA 8" x 6" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,816.04 2,134.22 3,201.32	98.91
<b>23 21 13 23-0693 Flanged Steel, 45 Degree Elbows</b> <small>(23 21 13 23-0677)</small>		
23 21 13 23-0694 EA 2" Standard Weight, Flanged Steel, 45 Degree Elbow ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	762.34 549.26 823.90	50.54
23 21 13 23-0695 EA 2-1/2" Standard Weight, Flanged Steel, 45 Degree Elbow ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	793.80 567.50 851.26	56.28
23 21 13 23-0696 EA 3" Standard Weight, Flanged Steel, 45 Degree Elbow ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	822.72 583.72 875.58	62.12
23 21 13 23-0697 EA 4" Standard Weight, Flanged Steel, 45 Degree Elbow ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,027.89 735.73 1,103.59	72.19
23 21 13 23-0698 EA 5" Standard Weight, Flanged Steel, 45 Degree Elbow ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,491.84 1,096.50 1,644.74	80.84
23 21 13 23-0699 EA 6" Standard Weight, Flanged Steel, 45 Degree Elbow ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,447.97 1,045.82 1,568.74	93.83
23 21 13 23-0700 EA 8" Standard Weight, Flanged Steel, 45 Degree Elbow ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,710.48 1,243.70 1,865.56	103.90
<b>23 21 13 23-0701 Flanged Steel, Tees</b> <small>(23 21 13 23-0677)</small>		
23 21 13 23-0702 EA 2" Standard Weight, Flanged Steel, Tee ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	739.41 500.62 750.92	75.76
23 21 13 23-0703 EA 2-1/2" Standard Weight, Flanged Steel, Tee ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	960.14 666.82 1,000.22	84.41
23 21 13 23-0704 EA 3" Standard Weight, Flanged Steel, Tee ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	869.27 583.73 875.59	93.07
23 21 13 23-0705 EA 4" Standard Weight, Flanged Steel, Tee ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,251.70 871.50 1,307.24	108.33
23 21 13 23-0706 EA 5" Standard Weight, Flanged Steel, Tee ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,875.13 1,354.65 2,031.97	121.33
23 21 13 23-0707 EA 6" Standard Weight, Flanged Steel, Tee ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,291.36 1,664.26 2,496.40	140.80
23 21 13 23-0708 EA 8" Standard Weight, Flanged Steel, Tee ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,534.14 1,831.64 2,747.46	163.09
<b>23 21 13 23-0709 Flanged Steel, Reducing Tees</b> <small>(23 21 13 23-0677)</small>		
23 21 13 23-0710 EA 2-1/2" Standard Weight, Flanged Steel, Reducing Tee ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,183.82 849.22 1,273.84	81.60
23 21 13 23-0711 EA 3" Standard Weight, Flanged Steel, Reducing Tee ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,369.10 987.05 1,480.57	90.26
23 21 13 23-0712 EA 4" Standard Weight, Flanged Steel, Reducing Tee ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,376.47 1,777.37 2,666.05	103.25
23 21 13 23-0713 EA 5" Standard Weight, Flanged Steel, Reducing Tee ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	2,566.64 1,913.05 2,869.57	116.99
23 21 13 23-0714 EA 6" Standard Weight, Flanged Steel, Reducing Tee ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	3,231.42 2,424.10 3,636.14	134.31
23 21 13 23-0715 EA 8" Standard Weight, Flanged Steel, Reducing Tee ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	4,041.62 3,052.34 4,578.52	150.86
<b>23 21 13 23-0716 Flanged Steel, Concentric Reducers</b> <small>(23 21 13 23-0677)</small>		
23 21 13 23-0717 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Concentric Reducer ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,127.47 830.98 1,246.48	59.20
23 21 13 23-0718 EA 4" x 3" Standard Weight, Flanged Steel, Concentric Reducer ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,281.26 944.49 1,416.73	67.10
23 21 13 23-0719 EA 5" x 4" Standard Weight, Flanged Steel, Concentric Reducer ..... <i>For Galvanized Fittings, Add</i> <i>For Extra Heavy Weight Fittings, Add</i>	1,910.96 1,436.99 2,155.49	76.51

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0720 EA 6" x 4" Standard Weight, Flanged Steel, Concentric Reducer .....	2,108.19	83.00
For Galvanized Fittings, Add	1,586.98	
For Extra Heavy Weight Fittings, Add	2,380.48	
23 21 13 23-0721 EA 8" x 6" Standard Weight, Flanged Steel, Concentric Reducer .....	2,468.95	98.91
For Galvanized Fittings, Add	1,856.54	
For Extra Heavy Weight Fittings, Add	2,784.82	
<b>23 21 13 23-0722 Flanged Steel, Eccentric Reducers (23 21 13 23-0677)</b>		
23 21 13 23-0723 EA 4" x 3" Standard Weight, Flanged Steel, Eccentric Reducer .....	1,496.60	67.10
For Galvanized Fittings, Add	1,116.76	
For Extra Heavy Weight Fittings, Add	1,675.14	
23 21 13 23-0724 EA 5" x 4" Standard Weight, Flanged Steel, Eccentric Reducer .....	2,047.77	76.51
For Galvanized Fittings, Add	1,546.44	
For Extra Heavy Weight Fittings, Add	2,319.66	
<b>23 21 13 23-0725 Plain End Couplings And Fittings (23 21 13 23)</b>		
Note: For use on standard weight steel pipe (Schedule 40), but may be used on lightwall steel or other metallic pipe such as aluminum or stainless steel.		
<b>23 21 13 23-0726 Plain End Piping System Couplings (23 21 13 23-0725)</b>		
<b>23 21 13 23-0727 Plainlock Plain End Piping System Couplings (23 21 13 23-0726)</b>		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0728 EA 1" Plainlock Plain End Piping System Coupling .....	148.09	6.49
For Galvanized Fittings, Add	27.67	
23 21 13 23-0729 EA 1-1/2" Plainlock Plain End Piping System Coupling .....	151.87	8.98
For Galvanized Fittings, Add	27.67	
23 21 13 23-0730 EA 2" Plainlock Plain End Piping System Coupling .....	156.26	11.91
For Galvanized Fittings, Add	27.67	
23 21 13 23-0731 EA 2-1/2" Plainlock Plain End Piping System Coupling .....	160.00	14.39
For Galvanized Fittings, Add	27.67	
23 21 13 23-0732 EA 3" Plainlock Plain End Piping System Coupling .....	189.24	17.32
For Galvanized Fittings, Add	32.65	
23 21 13 23-0733 EA 4" Plainlock Plain End Piping System Coupling .....	260.83	23.06
For Galvanized Fittings, Add	45.24	
23 21 13 23-0734 EA 6" Plainlock Plain End Piping System Coupling .....	438.23	37.56
For Galvanized Fittings, Add	76.39	
<b>23 21 13 23-0735 Roust-A-Bout Plain End Piping System Couplings (23 21 13 23-0726)</b>		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0736 EA 1-1/2" Roust-A-Bout Plain End Piping System Coupling .....	178.73	8.98
For Galvanized Fittings, Add	41.30	
23 21 13 23-0737 EA 2" Roust-A-Bout Plain End Piping System Coupling .....	183.12	11.91
For Galvanized Fittings, Add	41.30	
23 21 13 23-0738 EA 2-1/2" Roust-A-Bout Plain End Piping System Coupling .....	186.87	14.50
For Galvanized Fittings, Add	41.30	
23 21 13 23-0739 EA 3" Roust-A-Bout Plain End Piping System Coupling .....	270.68	17.32
For Galvanized Fittings, Add	61.18	
23 21 13 23-0740 EA 3-1/2" Roust-A-Bout Plain End Piping System Coupling .....	313.54	20.24
For Galvanized Fittings, Add	70.80	
23 21 13 23-0741 EA 4" Roust-A-Bout Plain End Piping System Coupling .....	317.82	23.06
For Galvanized Fittings, Add	70.80	
23 21 13 23-0742 EA 5" Roust-A-Bout Plain End Piping System Coupling .....	447.93	28.89
For Galvanized Fittings, Add	101.15	
23 21 13 23-0743 EA 6" Roust-A-Bout Plain End Piping System Coupling .....	550.45	37.56
For Galvanized Fittings, Add	123.54	
23 21 13 23-0744 EA 8" Roust-A-Bout Plain End Piping System Coupling .....	943.40	44.80
For Galvanized Fittings, Add	219.06	
23 21 13 23-0745 EA 10" Roust-A-Bout Plain End Piping System Coupling .....	1,219.54	53.03
For Galvanized Fittings, Add	284.99	
23 21 13 23-0746 EA 12" Roust-A-Bout Plain End Piping System Coupling .....	1,524.59	62.77
For Galvanized Fittings, Add	357.61	
23 21 13 23-0747 EA 14" Roust-A-Bout Plain End Piping System Coupling .....	2,135.27	69.38
For Galvanized Fittings, Add	507.80	
23 21 13 23-0748 EA 16" Roust-A-Bout Plain End Piping System Coupling .....	2,899.23	78.46
For Galvanized Fittings, Add	695.40	
<b>23 21 13 23-0749 Plain End Piping System Fittings (23 21 13 23-0725)</b>		
Note: Cast ductile iron bodies.		
<b>23 21 13 23-0750 Plain End Piping System, 90 Degree Elbows (23 21 13 23-0749)</b>		
23 21 13 23-0751 EA 1" Plain End Piping System, 90 Degree Elbow .....	148.28	11.80
For Galvanized Fittings, Add	26.12	
23 21 13 23-0752 EA 1-1/2" Plain End Piping System, 90 Degree Elbow .....	157.37	17.86
For Galvanized Fittings, Add	26.12	
23 21 13 23-0753 EA 2" Plain End Piping System, 90 Degree Elbow .....	165.96	23.60
For Galvanized Fittings, Add	26.12	
23 21 13 23-0754 EA 2-1/2" Plain End Piping System, 90 Degree Elbow .....	173.68	28.78
For Galvanized Fittings, Add	26.12	
23 21 13 23-0755 EA 3" Plain End Piping System, 90 Degree Elbow .....	209.08	34.84
For Galvanized Fittings, Add	31.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0756 EA 4" Plain End Piping System, 90 Degree Elbow.....	297.58	45.89
<i>For Galvanized Fittings, Add</i>	45.75	
23 21 13 23-0757 EA 5" Plain End Piping System, 90 Degree Elbow.....	877.94	57.47
<i>For Galvanized Fittings, Add</i>	158.35	
23 21 13 23-0758 EA 6" Plain End Piping System, 90 Degree Elbow.....	742.32	75.22
<i>For Galvanized Fittings, Add</i>	125.92	
23 21 13 23-0759 EA 8" Plain End Piping System, 90 Degree Elbow.....	1,463.67	89.29
<i>For Galvanized Fittings, Add</i>	265.95	
23 21 13 23-0760 EA 10" Plain End Piping System, 90 Degree Elbow.....	1,827.67	104.33
<i>For Galvanized Fittings, Add</i>	334.26	
23 21 13 23-0761 EA 12" Plain End Piping System, 90 Degree Elbow.....	2,315.80	125.33
<i>For Galvanized Fittings, Add</i>	425.58	
<b>23 21 13 23-0762 Plain End Piping System, 45 Degree Elbows (23 21 13 23-0749)</b>		
23 21 13 23-0763 EA 1" Plain End Piping System, 45 Degree Elbow.....	148.28	11.80
<i>For Galvanized Fittings, Add</i>	26.12	
23 21 13 23-0764 EA 1-1/2" Plain End Piping System, 45 Degree Elbow.....	157.37	17.86
<i>For Galvanized Fittings, Add</i>	26.12	
23 21 13 23-0765 EA 2" Plain End Piping System, 45 Degree Elbow.....	165.96	23.60
<i>For Galvanized Fittings, Add</i>	26.12	
23 21 13 23-0766 EA 2-1/2" Plain End Piping System, 45 Degree Elbow.....	173.68	28.78
<i>For Galvanized Fittings, Add</i>	26.12	
23 21 13 23-0767 EA 3" Plain End Piping System, 45 Degree Elbow.....	209.08	34.84
<i>For Galvanized Fittings, Add</i>	31.37	
23 21 13 23-0768 EA 4" Plain End Piping System, 45 Degree Elbow.....	297.58	45.89
<i>For Galvanized Fittings, Add</i>	45.75	
23 21 13 23-0769 EA 5" Plain End Piping System, 45 Degree Elbow.....	877.94	57.47
<i>For Galvanized Fittings, Add</i>	158.35	
23 21 13 23-0770 EA 6" Plain End Piping System, 45 Degree Elbow.....	744.74	75.22
<i>For Galvanized Fittings, Add</i>	126.40	
23 21 13 23-0771 EA 8" Plain End Piping System, 45 Degree Elbow.....	864.59	89.29
<i>For Galvanized Fittings, Add</i>	146.13	
23 21 13 23-0772 EA 10" Plain End Piping System, 45 Degree Elbow.....	1,176.05	104.33
<i>For Galvanized Fittings, Add</i>	203.93	
23 21 13 23-0773 EA 12" Plain End Piping System, 45 Degree Elbow.....	1,505.16	125.33
<i>For Galvanized Fittings, Add</i>	263.45	
<b>23 21 13 23-0774 Plain End Piping System, Tees (23 21 13 23-0749)</b>		
23 21 13 23-0775 EA 1" Plain End Piping System, Tee.....	202.63	17.86
<i>For Galvanized Fittings, Add</i>	35.17	
23 21 13 23-0776 EA 1-1/2" Plain End Piping System, Tee.....	216.05	26.84
<i>For Galvanized Fittings, Add</i>	35.17	
23 21 13 23-0777 EA 2" Plain End Piping System, Tee.....	227.88	34.74
<i>For Galvanized Fittings, Add</i>	35.17	
23 21 13 23-0778 EA 2-1/2" Plain End Piping System, Tee.....	239.66	42.53
<i>For Galvanized Fittings, Add</i>	35.17	
23 21 13 23-0779 EA 3" Plain End Piping System, Tee.....	331.49	52.27
<i>For Galvanized Fittings, Add</i>	50.61	
23 21 13 23-0780 EA 4" Plain End Piping System, Tee.....	453.29	67.64
<i>For Galvanized Fittings, Add</i>	70.39	
23 21 13 23-0781 EA 5" Plain End Piping System, Tee.....	905.76	88.42
<i>For Galvanized Fittings, Add</i>	154.63	
23 21 13 23-0782 EA 6" Plain End Piping System, Tee.....	1,120.17	110.71
<i>For Galvanized Fittings, Add</i>	190.84	
23 21 13 23-0783 EA 8" Plain End Piping System, Tee.....	1,524.03	134.63
<i>For Galvanized Fittings, Add</i>	264.42	
23 21 13 23-0784 EA 10" Plain End Piping System, Tee.....	2,254.26	156.92
<i>For Galvanized Fittings, Add</i>	403.80	
23 21 13 23-0785 EA 12" Plain End Piping System, Tee.....	3,013.08	187.99
<i>For Galvanized Fittings, Add</i>	546.25	
<b>23 21 13 23-0786 Plain End Piping System, Reducing Tees (23 21 13 23-0749)</b>		
23 21 13 23-0787 EA 1-1/2" Plain End Piping System, Reducing Tee.....	390.73	28.78
<i>For Galvanized Fittings, Add</i>	69.52	
23 21 13 23-0788 EA 2" Plain End Piping System, Reducing Tee.....	399.62	34.74
<i>For Galvanized Fittings, Add</i>	69.52	
23 21 13 23-0789 EA 2-1/2" Plain End Piping System, Reducing Tee.....	411.40	42.53
<i>For Galvanized Fittings, Add</i>	69.52	
23 21 13 23-0790 EA 3" Plain End Piping System, Reducing Tee.....	426.01	52.27
<i>For Galvanized Fittings, Add</i>	69.52	
23 21 13 23-0791 EA 4" Plain End Piping System, Reducing Tee.....	614.50	67.64
<i>For Galvanized Fittings, Add</i>	102.63	
23 21 13 23-0792 EA 6" Plain End Piping System, Reducing Tee.....	1,037.39	110.71
<i>For Galvanized Fittings, Add</i>	174.28	
23 21 13 23-0793 EA 8" Plain End Piping System, Reducing Tee.....	1,349.51	134.63
<i>For Galvanized Fittings, Add</i>	229.52	
23 21 13 23-0794 EA 10" Plain End Piping System, Reducing Tee.....	2,004.46	156.92
<i>For Galvanized Fittings, Add</i>	353.84	
23 21 13 23-0795 EA 12" Plain End Piping System, Reducing Tee.....	2,941.60	187.99
<i>For Galvanized Fittings, Add</i>	531.95	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0796		<b>Plain End Piping System, Wyes</b> (23 21 13 23-0749)		
	23 21	13 23-0797	EA 2" Plain End Piping System, Wye .....567.13		34.74
			<i>For Galvanized Fittings, Add</i> .....103.02		
	23 21	13 23-0798	EA 2-1/2" Plain End Piping System, Wye .....578.91		42.53
			<i>For Galvanized Fittings, Add</i> .....103.02		
	23 21	13 23-0799	EA 3" Plain End Piping System, Wye .....657.42		52.27
			<i>For Galvanized Fittings, Add</i> .....115.80		
	23 21	13 23-0800	EA 4" Plain End Piping System, Wye .....960.76		67.64
			<i>For Galvanized Fittings, Add</i> .....171.88		
	23 21	13 23-0801	EA 5" Plain End Piping System, Wye .....1,178.43		88.42
			<i>For Galvanized Fittings, Add</i> .....209.16		
	23 21	13 23-0802	EA 6" Plain End Piping System, Wye .....1,606.10		110.71
			<i>For Galvanized Fittings, Add</i> .....288.02		
	23 21	13 23-0803	EA 8" Plain End Piping System, Wye .....2,066.96		134.63
			<i>For Galvanized Fittings, Add</i> .....373.01		
	23 21	13 23-0804	EA 10" Plain End Piping System, Wye .....2,985.51		156.92
			<i>For Galvanized Fittings, Add</i> .....550.05		
	23 21	13 23-0805	EA 12" Plain End Piping System, Wye .....4,521.57		187.99
			<i>For Galvanized Fittings, Add</i> .....847.95		
23 21	13 23-0806		<b>Plain End Piping System, Laterals</b> (23 21 13 23-0749)		
	23 21	13 23-0807	EA 2" Plain End Piping System, Lateral .....603.55		34.74
			<i>For Galvanized Fittings, Add</i> .....110.30		
	23 21	13 23-0808	EA 2-1/2" Plain End Piping System, Lateral .....615.33		42.53
			<i>For Galvanized Fittings, Add</i> .....110.30		
	23 21	13 23-0809	EA 3" Plain End Piping System, Lateral .....693.61		52.27
			<i>For Galvanized Fittings, Add</i> .....123.04		
	23 21	13 23-0810	EA 4" Plain End Piping System, Lateral .....1,029.87		67.64
			<i>For Galvanized Fittings, Add</i> .....185.71		
	23 21	13 23-0811	EA 5" Plain End Piping System, Lateral .....1,343.03		88.42
			<i>For Galvanized Fittings, Add</i> .....242.08		
	23 21	13 23-0812	EA 6" Plain End Piping System, Lateral .....1,712.00		110.71
			<i>For Galvanized Fittings, Add</i> .....309.20		
	23 21	13 23-0813	EA 8" Plain End Piping System, Lateral .....2,455.95		134.63
			<i>For Galvanized Fittings, Add</i> .....450.81		
	23 21	13 23-0814	EA 10" Plain End Piping System, Lateral .....3,417.10		156.92
			<i>For Galvanized Fittings, Add</i> .....636.37		
	23 21	13 23-0815	EA 12" Plain End Piping System, Lateral .....4,585.72		187.99
			<i>For Galvanized Fittings, Add</i> .....860.78		
23 21	13 23-0816		<b>Plain End Piping System, Crosses</b> (23 21 13 23-0749)		
	23 21	13 23-0817	EA 2" Plain End Piping System, Cross .....676.82		52.06
			<i>For Galvanized Fittings, Add</i> .....74.86		
	23 21	13 23-0818	EA 2-1/2" Plain End Piping System, Cross .....694.46		63.75
			<i>For Galvanized Fittings, Add</i> .....74.86		
	23 21	13 23-0819	EA 3" Plain End Piping System, Cross .....812.22		78.46
			<i>For Galvanized Fittings, Add</i> .....86.82		
	23 21	13 23-0820	EA 4" Plain End Piping System, Cross .....1,106.18		101.41
			<i>For Galvanized Fittings, Add</i> .....119.27		
	23 21	13 23-0821	EA 5" Plain End Piping System, Cross .....1,554.21		132.68
			<i>For Galvanized Fittings, Add</i> .....169.41		
	23 21	13 23-0822	EA 6" Plain End Piping System, Cross .....2,037.74		165.59
			<i>For Galvanized Fittings, Add</i> .....223.69		
	23 21	13 23-0823	EA 8" Plain End Piping System, Cross .....2,596.41		200.54
			<i>For Galvanized Fittings, Add</i> .....286.97		
	23 21	13 23-0824	EA 10" Plain End Piping System, Cross .....3,701.07		234.42
			<i>For Galvanized Fittings, Add</i> .....418.71		
	23 21	13 23-0825	EA 12" Plain End Piping System, Cross .....5,252.75		282.04
			<i>For Galvanized Fittings, Add</i> .....603.75		
23 21	13 23-0826		<b>Plain End Piping System, Adapter Nipples</b> (23 21 13 23-0749)		
			Note: Plain to threaded, plain to beveled or plain to grooved.		
	23 21	13 23-0827	EA 1" Plain End Piping System, Adapter Nipple .....25.84		6.49
			<i>For Galvanized Fittings, Add</i> .....4.03		
	23 21	13 23-0828	EA 1-1/2" Plain End Piping System, Adapter Nipple .....30.07		8.98
			<i>For Galvanized Fittings, Add</i> .....4.14		
	23 21	13 23-0829	EA 2" Plain End Piping System, Adapter Nipple .....34.34		11.91
			<i>For Galvanized Fittings, Add</i> .....4.14		
	23 21	13 23-0830	EA 2-1/2" Plain End Piping System, Adapter Nipple .....41.03		14.39
			<i>For Galvanized Fittings, Add</i> .....4.85		
	23 21	13 23-0831	EA 3" Plain End Piping System, Adapter Nipple .....49.92		17.32
			<i>For Galvanized Fittings, Add</i> .....5.99		
	23 21	13 23-0832	EA 4" Plain End Piping System, Adapter Nipple .....74.67		23.06
			<i>For Galvanized Fittings, Add</i> .....10.01		
	23 21	13 23-0833	EA 6" Plain End Piping System, Adapter Nipple .....151.58		28.89
			<i>For Galvanized Fittings, Add</i> .....27.07		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0834			<b>Plain End Piping System, Reducing (Swaged) Nipples</b> <small>(23 21 13 23-0749)</small>		
23 21	13 23-0835	EA		1-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	77.37	15.48
				<i>For Galvanized Fittings, Add</i>	13.53	
23 21	13 23-0836	EA		2" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	81.71	18.40
				<i>For Galvanized Fittings, Add</i>	13.53	
23 21	13 23-0837	EA		2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	86.08	21.32
				<i>For Galvanized Fittings, Add</i>	13.53	
23 21	13 23-0838	EA		2-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	85.02	20.67
				<i>For Galvanized Fittings, Add</i>	13.53	
23 21	13 23-0839	EA		2-1/2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	89.29	23.49
				<i>For Galvanized Fittings, Add</i>	13.53	
23 21	13 23-0840	EA		2-1/2" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....	93.60	26.30
				<i>For Galvanized Fittings, Add</i>	13.53	
23 21	13 23-0841	EA		3" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	101.54	23.81
				<i>For Galvanized Fittings, Add</i>	16.47	
23 21	13 23-0842	EA		3" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	105.39	26.30
				<i>For Galvanized Fittings, Add</i>	16.47	
23 21	13 23-0843	EA		3" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....	94.53	29.23
				<i>For Galvanized Fittings, Add</i>	12.67	
23 21	13 23-0844	EA		3" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	102.91	34.84
				<i>For Galvanized Fittings, Add</i>	12.67	
23 21	13 23-0845	EA		3-1/2" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	116.84	37.56
				<i>For Galvanized Fittings, Add</i>	15.15	
23 21	13 23-0846	EA		4" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	137.00	29.55
				<i>For Galvanized Fittings, Add</i>	23.16	
23 21	13 23-0847	EA		4" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	140.79	32.14
				<i>For Galvanized Fittings, Add</i>	23.16	
23 21	13 23-0848	EA		4" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....	122.69	35.07
				<i>For Galvanized Fittings, Add</i>	17.54	
23 21	13 23-0849	EA		4" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	126.41	37.56
				<i>For Galvanized Fittings, Add</i>	17.54	
23 21	13 23-0850	EA		4" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	130.82	40.47
				<i>For Galvanized Fittings, Add</i>	17.54	
23 21	13 23-0851	EA		4" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	135.04	43.29
				<i>For Galvanized Fittings, Add</i>	17.54	
23 21	13 23-0852	EA		5" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....	319.22	40.80
				<i>For Galvanized Fittings, Add</i>	64.50	
23 21	13 23-0853	EA		5" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	268.34	46.10
				<i>For Galvanized Fittings, Add</i>	49.79	
23 21	13 23-0854	EA		5" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....	241.84	52.06
				<i>For Galvanized Fittings, Add</i>	40.97	
23 21	13 23-0855	EA		6" x 1" Plain End Piping System, Reducing (Swaged) Nipple.....	557.59	44.05
				<i>For Galvanized Fittings, Add</i>	122.90	
23 21	13 23-0856	EA		6" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	561.33	46.53
				<i>For Galvanized Fittings, Add</i>	122.90	
23 21	13 23-0857	EA		6" x 2" Plain End Piping System, Reducing (Swaged) Nipple.....	437.74	49.46
				<i>For Galvanized Fittings, Add</i>	90.90	
23 21	13 23-0858	EA		6" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	441.58	52.06
				<i>For Galvanized Fittings, Add</i>	90.90	
23 21	13 23-0859	EA		6" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	317.89	54.87
				<i>For Galvanized Fittings, Add</i>	58.91	
23 21	13 23-0860	EA		6" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple.....	321.82	57.47
				<i>For Galvanized Fittings, Add</i>	58.91	
23 21	13 23-0861	EA		6" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....	269.50	60.60
				<i>For Galvanized Fittings, Add</i>	44.68	
23 21	13 23-0862	EA		6" x 5" Plain End Piping System, Reducing (Swaged) Nipple.....	304.39	66.34
				<i>For Galvanized Fittings, Add</i>	51.23	
23 21	13 23-0863	EA		8" x 3" Plain End Piping System, Reducing (Swaged) Nipple.....	377.16	62.01
				<i>For Galvanized Fittings, Add</i>	71.05	
23 21	13 23-0864	EA		8" x 4" Plain End Piping System, Reducing (Swaged) Nipple.....	385.91	67.86
				<i>For Galvanized Fittings, Add</i>	71.05	
23 21	13 23-0865	EA		8" x 5" Plain End Piping System, Reducing (Swaged) Nipple.....	433.73	73.70
				<i>For Galvanized Fittings, Add</i>	80.83	
23 21	13 23-0866	EA		8" x 6" Plain End Piping System, Reducing (Swaged) Nipple.....	485.95	82.36
				<i>For Galvanized Fittings, Add</i>	90.60	
23 21	13 23-0867			<b>Plain End Piping System, Bull Plugs</b> <small>(23 21 13 23-0749)</small>		
23 21	13 23-0868	EA		1" Plain End Piping System, Bull Plug.....	293.67	6.49
				<i>For Galvanized Fittings, Add</i>	85.18	
23 21	13 23-0869	EA		1-1/2" Plain End Piping System, Bull Plug.....	297.46	8.98
				<i>For Galvanized Fittings, Add</i>	85.18	
23 21	13 23-0870	EA		2" Plain End Piping System, Bull Plug.....	301.73	11.91
				<i>For Galvanized Fittings, Add</i>	85.18	
23 21	13 23-0871	EA		2-1/2" Plain End Piping System, Bull Plug.....	305.57	14.39
				<i>For Galvanized Fittings, Add</i>	85.18	
23 21	13 23-0872	EA		3" Plain End Piping System, Bull Plug.....	442.19	17.32
				<i>For Galvanized Fittings, Add</i>	124.87	
23 21	13 23-0873	EA		4" Plain End Piping System, Bull Plug.....	572.23	23.06
				<i>For Galvanized Fittings, Add</i>	161.28	
23 21	13 23-0874	EA		5" Plain End Piping System, Bull Plug.....	993.36	28.89
				<i>For Galvanized Fittings, Add</i>	265.02	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0875 EA 6" Plain End Piping System, Bull Plug ..... <i>For Galvanized Fittings, Add</i>	1,323.43 380.15	37.56
23 21 13 23-0876 EA 8" Plain End Piping System, Bull Plug ..... <i>For Galvanized Fittings, Add</i>	2,449.41 714.70	44.69
23 21 13 23-0877 EA 10" Plain End Piping System, Bull Plug ..... <i>For Galvanized Fittings, Add</i>	4,403.11 1,297.41	52.27
23 21 13 23-0878 EA 12" Plain End Piping System, Bull Plug ..... <i>For Galvanized Fittings, Add</i>	6,744.75 1,995.18	62.77
<b>23 21 13 23-0879 Carbon Steel Piping Systems (23 21 13 23)</b>		
<b>23 21 13 23-0880 Class 3,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-0879)</b> Note: ASTM A105		
<b>23 21 13 23-0881 90 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0880)</b>		
23 21 13 23-0882 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	38.55	21.43
23 21 13 23-0883 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	43.30	23.92
23 21 13 23-0884 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	53.73	26.73
23 21 13 23-0885 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	70.84	30.30
23 21 13 23-0886 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	80.80	34.09
23 21 13 23-0887 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	108.50	43.40
23 21 13 23-0888 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	206.58	64.18
23 21 13 23-0889 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	291.34	84.41
23 21 13 23-0890 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	475.92	84.11
<b>23 21 13 23-0891 45 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0880)</b>		
23 21 13 23-0892 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	41.40	21.43
23 21 13 23-0893 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	47.62	23.92
23 21 13 23-0894 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	55.06	26.73
23 21 13 23-0895 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	72.52	30.30
23 21 13 23-0896 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	84.83	34.09
23 21 13 23-0897 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	108.42	43.40
23 21 13 23-0898 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	231.24	64.18
23 21 13 23-0899 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	312.20	84.41
23 21 13 23-0900 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB.....	466.89	84.11
<b>23 21 13 23-0901 Straight Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0880)</b>		
23 21 13 23-0902 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	47.44	26.73
23 21 13 23-0903 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	56.88	30.84
23 21 13 23-0904 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	73.47	36.47
23 21 13 23-0905 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	95.67	43.40
23 21 13 23-0906 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	115.61	51.73
23 21 13 23-0907 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	151.41	64.18
23 21 13 23-0908 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	259.50	84.41
23 21 13 23-0909 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	349.89	100.22
23 21 13 23-0910 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	628.11	106.19
<b>23 21 13 23-0911 Reducing Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0880)</b>		
23 21 13 23-0912 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	48.23	26.73
23 21 13 23-0913 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	57.69	30.84
23 21 13 23-0914 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	74.44	36.47
23 21 13 23-0915 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	97.97	43.40
23 21 13 23-0916 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	118.30	51.73
23 21 13 23-0917 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	155.54	64.18
23 21 13 23-0918 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	269.30	84.41
23 21 13 23-0919 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	364.01	100.22
23 21 13 23-0920 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	577.88	106.19
<b>23 21 13 23-0921 Straight Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0880)</b>		
23 21 13 23-0922 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	35.03	21.43
23 21 13 23-0923 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	39.41	23.92
23 21 13 23-0924 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	45.46	26.73
23 21 13 23-0925 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	52.16	30.30
23 21 13 23-0926 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	60.29	34.09
23 21 13 23-0927 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	78.32	43.40
23 21 13 23-0928 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket, Weld, 3,000 LB.....	129.70	64.18
23 21 13 23-0929 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	172.78	84.41
23 21 13 23-0930 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB.....	218.20	84.11
<b>23 21 13 23-0931 Reducing Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-0880)</b>		
23 21 13 23-0932 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	36.62	21.43
23 21 13 23-0933 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	41.15	23.92
23 21 13 23-0934 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	48.25	26.73
23 21 13 23-0935 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	55.54	30.30
23 21 13 23-0936 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	65.31	34.09





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				23 21 13 23-0937 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	83.68	43.40
				23 21 13 23-0938 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	141.50	64.18
				23 21 13 23-0939 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	196.51	84.41
				23 21 13 23-0940 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB.....	267.53	84.11
<b>23 21 13 23-0941</b>				<b>Caps, 3,000 LB Carbon Steel Socket Weld</b> (23 21 13 23-0880)		
				23 21 13 23-0942 EA 1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	19.72	10.06
				23 21 13 23-0943 EA 3/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	22.16	10.71
				23 21 13 23-0944 EA 1" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	25.92	12.34
				23 21 13 23-0945 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	29.72	13.42
				23 21 13 23-0946 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	33.27	13.42
				23 21 13 23-0947 EA 2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	43.12	17.21
				23 21 13 23-0948 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	72.73	21.43
				23 21 13 23-0949 EA 3" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	102.84	25.87
				23 21 13 23-0950 EA 4" Cap, Carbon Steel, Socket Weld, 3,000 LB.....	143.09	28.78
<b>23 21 13 23-0951</b>				<b>Black Cast Iron Square Head Plug</b> (23 21 13 23-0880)		
				23 21 13 23-0952 EA 1/2" Square Head Plug, Black, Cast Iron.....	13.79	8.55
				23 21 13 23-0953 EA 3/4" Square Head Plug, Black, Cast Iron.....	15.30	8.55
				23 21 13 23-0954 EA 1" Square Head Plug, Black, Cast Iron.....	22.22	12.98
				23 21 13 23-0955 EA 1-1/4" Square Head Plug, Black, Cast Iron.....	22.52	12.98
				23 21 13 23-0956 EA 1-1/2" Square Head Plug, Black, Cast Iron.....	23.78	12.98
				23 21 13 23-0957 EA 2" Square Head Plug, Black, Cast Iron.....	31.54	17.21
				23 21 13 23-0958 EA 2-1/2" Square Head Plug, Black, Cast Iron.....	40.31	21.43
				23 21 13 23-0959 EA 3" Square Head Plug, Black, Cast Iron.....	52.01	25.87
				23 21 13 23-0960 EA 4" Square Head Plug, Black, Cast Iron.....	58.74	28.78
<b>23 21 13 23-0961</b>				<b>Unions, 3,000 LB Carbon Steel Socket Weld</b> (23 21 13 23-0880)		
				23 21 13 23-0962 EA 1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	56.67	26.73
				23 21 13 23-0963 EA 3/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	63.27	30.84
				23 21 13 23-0964 EA 1" Union, Carbon Steel, Socket Weld, 3,000 LB.....	79.54	36.47
				23 21 13 23-0965 EA 1-1/4" Union, Carbon Steel, Socket Weld, 3,000 LB.....	99.34	43.40
				23 21 13 23-0966 EA 1-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	119.48	51.73
				23 21 13 23-0967 EA 2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	149.16	64.18
				23 21 13 23-0968 EA 2-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB.....	240.16	69.70
				23 21 13 23-0969 EA 3" Union, Carbon Steel, Socket Weld, 3,000 LB.....	318.77	84.41
<b>23 21 13 23-0970</b>				<b>Class 6,000 LB Carbon Steel Socket Weld Fittings</b> (23 21 13 23-0879)		
				Note: ASTM A105		
<b>23 21 13 23-0971</b>				<b>90 Degree Elbow, 6,000 LB Carbon Steel Socket Weld</b> (23 21 13 23-0970)		
				23 21 13 23-0972 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	41.99	21.43
				23 21 13 23-0973 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	47.24	23.92
				23 21 13 23-0974 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	60.98	26.73
				23 21 13 23-0975 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	84.35	30.30
				23 21 13 23-0976 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	96.53	34.09
				23 21 13 23-0977 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	131.61	43.40
				23 21 13 23-0978 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	265.20	64.18
				23 21 13 23-0979 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	378.84	84.41
				23 21 13 23-0980 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	661.74	84.11
<b>23 21 13 23-0981</b>				<b>45 Degree Elbow, 6,000 LB Carbon Steel Socket Weld</b> (23 21 13 23-0970)		
				23 21 13 23-0982 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	46.69	21.43
				23 21 13 23-0983 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	54.26	23.92
				23 21 13 23-0984 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	63.54	26.73
				23 21 13 23-0985 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	87.88	30.30
				23 21 13 23-0986 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	103.88	34.09
				23 21 13 23-0987 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	133.00	43.40
				23 21 13 23-0988 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	307.70	64.18
				23 21 13 23-0989 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	417.30	84.41
				23 21 13 23-0990 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB.....	659.88	84.11
<b>23 21 13 23-0991</b>				<b>Straight Tees, 6,000 LB Carbon Steel Socket Weld</b> (23 21 13 23-0970)		
				23 21 13 23-0992 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	54.26	26.73
				23 21 13 23-0993 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	66.73	30.84
				23 21 13 23-0994 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	90.90	36.47
				23 21 13 23-0995 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	124.08	43.40
				23 21 13 23-0996 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	150.84	51.73
				23 21 13 23-0997 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	202.55	64.18
				23 21 13 23-0998 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	382.61	84.41
				23 21 13 23-0999 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	534.74	100.22
				23 21 13 23-1000 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	1,062.40	106.19

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 21 13 23-1001 Reducing Tees, 6,000 LB Carbon Steel Socket Weld</b> <small>(23 21 13 23-0970)</small>		
23 21 13 23-1002 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	48.23	26.73
23 21 13 23-1003 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	57.69	30.84
23 21 13 23-1004 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	74.44	36.47
23 21 13 23-1005 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	97.97	43.40
23 21 13 23-1006 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	118.30	51.73
23 21 13 23-1007 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	155.54	64.18
23 21 13 23-1008 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	269.30	84.41
23 21 13 23-1009 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	364.01	100.22
23 21 13 23-1010 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	577.88	106.19
<b>23 21 13 23-1011 Straight Couplings, 6,000 LB Carbon Steel Socket Weld</b> <small>(23 21 13 23-0970)</small>		
23 21 13 23-1012 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	36.46	21.43
23 21 13 23-1013 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	41.10	23.92
23 21 13 23-1014 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	48.05	26.73
23 21 13 23-1015 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	55.43	30.30
23 21 13 23-1016 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	64.70	34.09
23 21 13 23-1017 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	84.76	43.40
23 21 13 23-1018 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	145.90	64.18
23 21 13 23-1019 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	195.12	84.41
23 21 13 23-1020 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB.....	262.76	84.11
<b>23 21 13 23-1021 Reducing Couplings, 6,000 LB Carbon Steel Socket Weld</b> <small>(23 21 13 23-0970)</small>		
23 21 13 23-1022 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	38.81	21.43
23 21 13 23-1023 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	43.68	23.92
23 21 13 23-1024 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	52.18	26.73
23 21 13 23-1025 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	60.41	30.30
23 21 13 23-1026 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	72.09	34.09
23 21 13 23-1027 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	92.64	43.40
23 21 13 23-1028 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	163.24	64.18
23 21 13 23-1029 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	230.08	84.41
23 21 13 23-1030 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB.....	335.45	84.11
<b>23 21 13 23-1031 Caps, 6,000 LB Carbon Steel Socket Weld</b> <small>(23 21 13 23-0970)</small>		
23 21 13 23-1032 EA 1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	22.86	10.06
23 21 13 23-1033 EA 3/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	26.27	10.71
23 21 13 23-1034 EA 1" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	30.90	12.34
23 21 13 23-1035 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	36.22	13.42
23 21 13 23-1036 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	42.15	13.42
23 21 13 23-1037 EA 2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	54.71	17.21
23 21 13 23-1038 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	100.01	21.43
23 21 13 23-1039 EA 3" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	145.83	25.87
23 21 13 23-1040 EA 4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	210.11	28.78
<b>23 21 13 23-1041 Black Cast Iron Square Head Plug</b> <small>(23 21 13 23-0970)</small>		
23 21 13 23-1042 EA 1/2" Square Head Plug, Black Cast Iron.....	13.79	8.55
23 21 13 23-1043 EA 3/4" Square Head Plug, Black Cast Iron.....	15.32	8.55
23 21 13 23-1044 EA 1" Square Head Plug, Black Cast Iron.....	22.23	12.98
23 21 13 23-1045 EA 1-1/4" Square Head Plug, Black Cast Iron.....	22.54	12.98
23 21 13 23-1046 EA 1-1/2" Square Head Plug, Black Cast Iron.....	23.80	12.98
23 21 13 23-1047 EA 2" Square Head Plug, Black Cast Iron.....	31.57	17.21
23 21 13 23-1048 EA 2-1/2" Square Head Plug, Black Cast Iron.....	40.35	21.43
23 21 13 23-1049 EA 3" Square Head Plug, Black Cast Iron.....	52.08	25.87
23 21 13 23-1050 EA 4" Square Head Plug, Black Cast Iron.....	58.82	28.78
<b>23 21 13 23-1051 Unions, 6,000 LB Carbon Steel Socket Weld</b> <small>(23 21 13 23-0970)</small>		
23 21 13 23-1052 EA 1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	66.81	26.73
23 21 13 23-1053 EA 3/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	73.68	30.84
23 21 13 23-1054 EA 1" Union, Carbon Steel, Socket Weld, 6,000 LB.....	94.75	36.47
23 21 13 23-1055 EA 1-1/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	120.33	43.40
23 21 13 23-1056 EA 1-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	145.10	51.73
23 21 13 23-1057 EA 2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	181.54	64.18
23 21 13 23-1058 EA 2-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	323.07	69.70
23 21 13 23-1059 EA 3" Union, Carbon Steel, Socket Weld, 6,000 LB.....	436.29	84.41
<b>23 21 13 23-1060 Carbon Steel Piping System</b> <small>(23 21 13 23-0879)</small>		
Note: ASTM A106 Excludes hangers or fittings. Demolition Note applies to all pipe demolition.		
<b>23 21 13 23-1061 Schedule 40 Carbon Steel Piping</b> <small>(23 21 13 23-1060)</small>		
Note: ASTM A106 Excludes hangers, elbow, tee, or reducer fittings.		
23 21 13 23-1062 LF 1/4" ASTM A106 Carbon Steel Pipe, Schedule 40.....	7.91	4.00
For Schedule 80, Add	0.68	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1063 LF 1/2" ASTM A106 Carbon Steel Pipe, Schedule 40 .....	8.30	4.33
<i>For Schedule 80, Add</i>	0.63	
<i>For Schedule 160, Add</i>	2.61	
23 21 13 23-1064 LF 3/4" ASTM A106 Carbon Steel Pipe, Schedule 40 .....	9.11	4.65
<i>For Schedule 80, Add</i>	0.77	
<i>For Schedule 160, Add</i>	3.20	
23 21 13 23-1065 LF 1" ASTM A106 Carbon Steel Pipe, Schedule 40 .....	9.76	5.09
<i>For Schedule 80, Add</i>	0.79	
<i>For Schedule 160, Add</i>	3.29	
23 21 13 23-1066 LF 1-1/2" ASTM A106 Carbon Steel Pipe, Schedule 40 .....	12.64	6.28
<i>For Schedule 80, Add</i>	1.16	
<i>For Schedule 160, Add</i>	4.85	
23 21 13 23-1067 LF 2" ASTM A106 Carbon Steel Pipe, Schedule 40 .....	15.66	7.58
<i>For Schedule 80, Add</i>	1.53	
<i>For Schedule 160, Add</i>	6.39	
<b>23 21 13 23-1068 90 Degree Elbows, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		
23 21 13 23-1069 EA 1/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel .....	28.73	16.45
23 21 13 23-1070 EA 1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel .....	34.47	19.27
23 21 13 23-1071 EA 3/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel .....	38.52	21.54
23 21 13 23-1072 EA 1" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel .....	43.92	24.03
23 21 13 23-1073 EA 1-1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel .....	66.30	30.73
23 21 13 23-1074 EA 2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel .....	84.06	39.07
23 21 13 23-1075 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel .....	30.03	16.45
23 21 13 23-1076 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel .....	34.96	19.27
23 21 13 23-1077 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel .....	40.13	21.54
23 21 13 23-1078 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel .....	47.42	24.03
23 21 13 23-1079 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel .....	74.66	30.73
23 21 13 23-1080 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel .....	93.30	39.07
23 21 13 23-1081 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel .....	39.51	19.27
23 21 13 23-1082 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel .....	45.86	21.54
23 21 13 23-1083 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel .....	53.45	24.03
23 21 13 23-1084 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel .....	91.58	30.73
23 21 13 23-1085 EA 2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel .....	138.17	39.07
<b>23 21 13 23-1086 45 Degree Elbows, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		
23 21 13 23-1087 EA 1/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel .....	31.54	16.45
23 21 13 23-1088 EA 1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel .....	35.52	19.27
23 21 13 23-1089 EA 3/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel .....	39.88	21.54
23 21 13 23-1090 EA 1" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel .....	44.95	24.03
23 21 13 23-1091 EA 1-1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel .....	62.96	30.73
23 21 13 23-1092 EA 2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel .....	89.21	39.07
23 21 13 23-1093 EA 1/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel .....	31.75	16.45
23 21 13 23-1094 EA 1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel .....	36.71	19.27
23 21 13 23-1095 EA 3/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel .....	41.26	21.54
23 21 13 23-1096 EA 1" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel .....	48.53	24.03
23 21 13 23-1097 EA 1-1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel .....	73.37	30.73
23 21 13 23-1098 EA 2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel .....	96.18	39.07
23 21 13 23-1099 EA 1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel .....	42.65	19.27
23 21 13 23-1100 EA 3/4" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel .....	51.53	21.54
23 21 13 23-1101 EA 1" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel .....	55.57	24.03
23 21 13 23-1102 EA 1-1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel .....	103.65	30.73
23 21 13 23-1103 EA 2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel .....	138.97	39.07
<b>23 21 13 23-1104 Straight Tees, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		
23 21 13 23-1105 EA 1/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel .....	38.22	22.83
23 21 13 23-1106 EA 1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel .....	43.34	24.03
23 21 13 23-1107 EA 3/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel .....	51.54	27.82
23 21 13 23-1108 EA 1" Tee, Straight, 2,000 LB, Screwed Carbon Steel .....	62.75	32.79
23 21 13 23-1109 EA 1-1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel .....	98.31	46.53
23 21 13 23-1110 EA 2" Tee, Straight, 2,000 LB, Screwed Carbon Steel .....	121.90	57.79
23 21 13 23-1111 EA 1/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel .....	39.34	22.83
23 21 13 23-1112 EA 1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel .....	44.07	24.03
23 21 13 23-1113 EA 3/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel .....	53.96	27.82
23 21 13 23-1114 EA 1" Tee, Straight, 3,000 LB, Screwed Carbon Steel .....	64.82	32.79
23 21 13 23-1115 EA 1-1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel .....	105.49	46.53
23 21 13 23-1116 EA 2" Tee, Straight, 3,000 LB, Screwed Carbon Steel .....	133.77	57.79
23 21 13 23-1117 EA 1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel .....	49.53	24.03
23 21 13 23-1118 EA 3/4" Tee, Straight, 6,000 LB, Screwed Carbon Steel .....	59.82	27.82
23 21 13 23-1119 EA 1" Tee, Straight, 6,000 LB, Screwed Carbon Steel .....	79.32	32.79
23 21 13 23-1120 EA 1-1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel .....	121.97	46.53
23 21 13 23-1121 EA 2" Tee, Straight, 6,000 LB, Screwed Carbon Steel .....	186.30	57.79
<b>23 21 13 23-1122 Crosses, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		
23 21 13 23-1123 EA 1/4" Cross, 2,000 LB, Screwed Carbon Steel .....	55.97	28.89
23 21 13 23-1124 EA 1/2" Cross, 2,000 LB, Screwed Carbon Steel .....	65.56	32.47
23 21 13 23-1125 EA 3/4" Cross, 2,000 LB, Screwed Carbon Steel .....	70.34	34.63

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1126	EA	1" Cross, 2,000 LB, Screwed Carbon Steel .....	86.64	41.78
23 21	13 23-1127	EA	1-1/2" Cross, 2,000 LB, Screwed Carbon Steel .....	145.41	58.44
23 21	13 23-1128	EA	2" Cross, 2,000 LB, Screwed Carbon Steel .....	186.48	72.19
23 21	13 23-1129	EA	1/2" Cross, 3,000 LB, Screwed Carbon Steel .....	66.93	32.47
23 21	13 23-1130	EA	3/4" Cross, 3,000 LB, Screwed Carbon Steel .....	78.18	34.63
23 21	13 23-1131	EA	1" Cross, 3,000 LB, Screwed Carbon Steel .....	93.51	41.78
23 21	13 23-1132	EA	1-1/2" Cross, 3,000 LB, Screwed Carbon Steel .....	155.31	58.44
23 21	13 23-1133	EA	2" Cross, 3,000 LB, Screwed Carbon Steel .....	204.56	72.19
23 21	13 23-1134	EA	1/2" Cross, 6,000 LB, Screwed Carbon Steel .....	92.49	32.47
23 21	13 23-1135	EA	3/4" Cross, 6,000 LB, Screwed Carbon Steel .....	147.93	34.63
23 21	13 23-1136	EA	1" Cross, 6,000 LB, Screwed Carbon Steel .....	200.99	41.78
23 21	13 23-1137	EA	1-1/2" Cross, 6,000 LB, Screwed Carbon Steel .....	315.14	58.44
23 21	13 23-1138	EA	2" Cross, 6,000 LB, Screwed Carbon Steel .....	348.28	72.19
<b>23 21</b>	<b>13 23-1139</b>		<b>Straight Couplings, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		
23 21	13 23-1140	EA	1/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel .....	27.15	16.45
23 21	13 23-1141	EA	1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel .....	31.13	19.27
23 21	13 23-1142	EA	3/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel .....	35.42	21.54
23 21	13 23-1143	EA	1" Coupling, Straight, 3,000 LB, Screwed Carbon Steel .....	40.78	24.03
23 21	13 23-1144	EA	1-1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel .....	57.87	30.73
23 21	13 23-1145	EA	2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel .....	73.46	39.07
23 21	13 23-1146	EA	1/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel .....	30.42	16.45
23 21	13 23-1147	EA	1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel .....	33.20	19.27
23 21	13 23-1148	EA	3/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel .....	37.01	21.54
23 21	13 23-1149	EA	1" Coupling, Straight, 6,000 LB, Screwed Carbon Steel .....	42.90	24.03
23 21	13 23-1150	EA	1-1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel .....	61.11	30.73
23 21	13 23-1151	EA	2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel .....	85.30	39.07
<b>23 21</b>	<b>13 23-1152</b>		<b>Reducing Couplings, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		
23 21	13 23-1153	EA	1/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel .....	27.60	17.53
23 21	13 23-1154	EA	1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel .....	32.20	19.27
23 21	13 23-1155	EA	3/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel .....	37.06	21.54
23 21	13 23-1156	EA	1" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel .....	43.05	24.03
23 21	13 23-1157	EA	1-1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel .....	58.46	30.73
23 21	13 23-1158	EA	2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel .....	76.65	39.07
23 21	13 23-1159	EA	1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel .....	74.15	19.27
23 21	13 23-1160	EA	3/4" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel .....	77.59	21.54
23 21	13 23-1161	EA	1" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel .....	90.29	24.03
23 21	13 23-1162	EA	1-1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel .....	128.33	30.73
23 21	13 23-1163	EA	2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel .....	182.41	39.07
<b>23 21</b>	<b>13 23-1164</b>		<b>Caps, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		
23 21	13 23-1165	EA	1/4" Cap, 3,000 LB, Screwed Carbon Steel .....	7.94	4.00
23 21	13 23-1166	EA	1/2" Cap, 3,000 LB, Screwed Carbon Steel .....	8.85	4.54
23 21	13 23-1167	EA	3/4" Cap, 3,000 LB, Screwed Carbon Steel .....	10.66	5.20
23 21	13 23-1168	EA	1" Cap, 3,000 LB, Screwed Carbon Steel .....	13.50	6.06
23 21	13 23-1169	EA	1-1/2" Cap, 3,000 LB, Screwed Carbon Steel .....	17.99	7.25
23 21	13 23-1170	EA	2" Cap, 3,000 LB, Screwed Carbon Steel .....	24.68	8.98
23 21	13 23-1171	EA	1/4" Cap, 6,000 LB, Screwed Carbon Steel .....	11.87	4.00
23 21	13 23-1172	EA	1/2" Cap, 6,000 LB, Screwed Carbon Steel .....	11.37	4.54
23 21	13 23-1173	EA	3/4" Cap, 6,000 LB, Screwed Carbon Steel .....	14.76	5.20
23 21	13 23-1174	EA	1" Cap, 6,000 LB, Screwed Carbon Steel .....	16.49	6.06
23 21	13 23-1175	EA	1-1/2" Cap, 6,000 LB, Screwed Carbon Steel .....	30.20	7.25
23 21	13 23-1176	EA	2" Cap, 6,000 LB, Screwed Carbon Steel .....	36.58	8.98
<b>23 21</b>	<b>13 23-1177</b>		<b>Nipples, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		
23 21	13 23-1178	EA	1/4" Nipple, 2" Long, Screwed Carbon Steel .....	16.63	9.85
23 21	13 23-1179	EA	1/2" Nipple, 2" Long, Screwed Carbon Steel .....	16.95	10.28
23 21	13 23-1180	EA	3/4" Nipple, 2" Long, Screwed Carbon Steel .....	16.85	10.28
23 21	13 23-1181	EA	1" Nipple, 2" Long, Screwed Carbon Steel .....	18.64	11.15
23 21	13 23-1182	EA	1-1/2" Nipple, 2" Long, Screwed Carbon Steel .....	21.04	12.01
23 21	13 23-1183	EA	2" Nipple, 2" Long, Screwed Carbon Steel .....	25.54	15.48
23 21	13 23-1184	EA	1/4" Nipple, 4" Long, Screwed Carbon Steel .....	17.38	9.85
23 21	13 23-1185	EA	1/2" Nipple, 4" Long, Screwed Carbon Steel .....	17.55	10.28
23 21	13 23-1186	EA	3/4" Nipple, 4" Long, Screwed Carbon Steel .....	17.53	10.28
23 21	13 23-1187	EA	1" Nipple, 4" Long, Screwed Carbon Steel .....	19.55	11.15
23 21	13 23-1188	EA	1-1/2" Nipple, 4" Long, Screwed Carbon Steel .....	22.66	12.01
23 21	13 23-1189	EA	2" Nipple, 4" Long, Screwed Carbon Steel .....	27.91	15.48
23 21	13 23-1190	EA	1/4" Nipple, 6" Long, Screwed Carbon Steel .....	19.17	9.85
23 21	13 23-1191	EA	1/2" Nipple, 6" Long, Screwed Carbon Steel .....	18.49	10.28
23 21	13 23-1192	EA	3/4" Nipple, 6" Long, Screwed Carbon Steel .....	18.58	10.28
23 21	13 23-1193	EA	1" Nipple, 6" Long, Screwed Carbon Steel .....	20.85	11.15
23 21	13 23-1194	EA	1-1/2" Nipple, 6" Long, Screwed Carbon Steel .....	24.88	12.01
23 21	13 23-1195	EA	2" Nipple, 6" Long, Screwed Carbon Steel .....	29.87	15.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 21 13 23-1196 Unions, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		
23 21 13 23-1197 EA 1/4" Union, 3,000 LB, Screwed Carbon Steel .....	35.13	23.92
23 21 13 23-1198 EA 1/2" Union, 3,000 LB, Screwed Carbon Steel .....	37.36	24.03
23 21 13 23-1199 EA 3/4" Union, 3,000 LB, Screwed Carbon Steel .....	42.95	27.82
23 21 13 23-1200 EA 1" Union, 3,000 LB, Screwed Carbon Steel .....	51.13	32.79
23 21 13 23-1201 EA 1-1/2" Union, 3,000 LB, Screwed Carbon Steel .....	73.06	46.53
23 21 13 23-1202 EA 2" Union, 3,000 LB, Screwed Carbon Steel .....	90.68	57.79
23 21 13 23-1203 EA 1/4" Union, 6,000 LB, Screwed Carbon Steel .....	52.53	23.92
23 21 13 23-1204 EA 1/2" Union, 6,000 LB, Screwed Carbon Steel .....	58.39	24.03
23 21 13 23-1205 EA 3/4" Union, 6,000 LB, Screwed Carbon Steel .....	68.42	27.82
23 21 13 23-1206 EA 1" Union, 6,000 LB, Screwed Carbon Steel .....	82.52	32.79
23 21 13 23-1207 EA 1-1/2" Union, 6,000 LB, Screwed Carbon Steel .....	137.25	46.53
23 21 13 23-1208 EA 2" Union, 6,000 LB, Screwed Carbon Steel .....	169.68	57.79
<b>23 21 13 23-1209 Weld Neck Flanges, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		
23 21 13 23-1210 EA 1/2" Flange, 150 LB, Screwed Carbon Steel .....	76.31	44.69
23 21 13 23-1211 EA 3/4" Flange, 150 LB, Screwed Carbon Steel .....	79.86	46.86
23 21 13 23-1212 EA 1" Flange, 150 LB, Screwed Carbon Steel .....	82.92	48.91
23 21 13 23-1213 EA 1-1/2" Flange, 150 LB, Screwed Carbon Steel .....	92.49	55.09
23 21 13 23-1214 EA 2" Flange, 150 LB, Screwed Carbon Steel .....	96.10	57.47
23 21 13 23-1215 EA 1/2" Flange, 300 LB, Screwed Carbon Steel .....	76.91	44.69
<i>For Ring Type Joint, Add</i>	<i>9.84</i>	
<i>For Blind Flange, Deduct</i>	<i>-28.80</i>	
23 21 13 23-1216 EA 3/4" Flange, 300 LB, Screwed Carbon Steel .....	80.48	46.86
<i>For Ring Type Joint, Add</i>	<i>10.17</i>	
<i>For Blind Flange, Deduct</i>	<i>-30.16</i>	
23 21 13 23-1217 EA 1" Flange, 300 LB, Screwed Carbon Steel .....	83.86	48.91
<i>For Ring Type Joint, Add</i>	<i>10.49</i>	
<i>For Blind Flange, Deduct</i>	<i>-31.45</i>	
23 21 13 23-1218 EA 1-1/2" Flange, 300 LB, Screwed Carbon Steel .....	94.75	55.09
<i>For Ring Type Joint, Add</i>	<i>12.14</i>	
<i>For Blind Flange, Deduct</i>	<i>-35.47</i>	
23 21 13 23-1219 EA 2" Flange, 300 LB, Screwed Carbon Steel .....	98.36	57.47
<i>For Ring Type Joint, Add</i>	<i>12.14</i>	
<i>For Blind Flange, Deduct</i>	<i>-36.92</i>	
23 21 13 23-1220 EA 1/2" Flange, 600 LB, Screwed Carbon Steel .....	80.78	44.69
<i>For Ring Type Joint, Add</i>	<i>13.71</i>	
<i>For Blind Flange, Deduct</i>	<i>-29.57</i>	
23 21 13 23-1221 EA 3/4" Flange, 600 LB, Screwed Carbon Steel .....	84.02	46.86
<i>For Ring Type Joint, Add</i>	<i>13.71</i>	
<i>For Blind Flange, Deduct</i>	<i>-30.87</i>	
23 21 13 23-1222 EA 1" Flange, 600 LB, Screwed Carbon Steel .....	87.70	48.91
<i>For Ring Type Joint, Add</i>	<i>14.33</i>	
<i>For Blind Flange, Deduct</i>	<i>-32.21</i>	
23 21 13 23-1223 EA 1-1/2" Flange, 600 LB, Screwed Carbon Steel .....	99.51	55.09
<i>For Ring Type Joint, Add</i>	<i>16.90</i>	
<i>For Blind Flange, Deduct</i>	<i>-36.42</i>	
23 21 13 23-1224 EA 2" Flange, 600 LB, Screwed Carbon Steel .....	101.95	57.47
<i>For Ring Type Joint, Add</i>	<i>15.73</i>	
<i>For Blind Flange, Deduct</i>	<i>-37.63</i>	
<b>23 21 13 23-1225 Square Head Plugs, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		
23 21 13 23-1226 EA 1/4" Square Head Plug, Screwed Carbon Steel .....	5.40	3.04
23 21 13 23-1227 EA 1/2" Square Head Plug, Screwed Carbon Steel .....	6.46	3.57
23 21 13 23-1228 EA 3/4" Square Head Plug, Screwed Carbon Steel .....	7.47	4.11
23 21 13 23-1229 EA 1" Square Head Plug, Screwed Carbon Steel .....	10.89	6.06
23 21 13 23-1230 EA 1-1/2" Square Head Plug, Screwed Carbon Steel .....	13.17	6.06
23 21 13 23-1231 EA 2" Square Head Plug, Screwed Carbon Steel .....	18.68	7.90
<b>23 21 13 23-1232 Hex Head Plugs, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		
23 21 13 23-1233 EA 1/4" Hex Head Plug, Screwed Carbon Steel .....	5.17	3.04
23 21 13 23-1234 EA 1/2" Hex Head Plug, Screwed Carbon Steel .....	6.25	3.57
23 21 13 23-1235 EA 3/4" Hex Head Plug, Screwed Carbon Steel .....	7.33	4.11
23 21 13 23-1236 EA 1" Hex Head Plug, Screwed Carbon Steel .....	10.77	6.06
23 21 13 23-1237 EA 1-1/2" Hex Head Plug, Screwed Carbon Steel .....	12.67	6.06
23 21 13 23-1238 EA 2" Hex Head Plug, Screwed Carbon Steel .....	19.03	7.90
<b>23 21 13 23-1239 Round Head Plugs, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		
23 21 13 23-1240 EA 1/4" Round Head Plug, Screwed Carbon Steel .....	5.91	3.04
23 21 13 23-1241 EA 1/2" Round Head Plug, Screwed Carbon Steel .....	6.49	3.57
23 21 13 23-1242 EA 3/4" Round Head Plug, Screwed Carbon Steel .....	7.37	4.11
23 21 13 23-1243 EA 1" Round Head Plug, Screwed Carbon Steel .....	10.97	6.06
23 21 13 23-1244 EA 1-1/2" Round Head Plug, Screwed Carbon Steel .....	13.80	6.06
23 21 13 23-1245 EA 2" Round Head Plug, Screwed Carbon Steel .....	18.90	7.90
<b>23 21 13 23-1246 Hexagon Bushings, Screwed Carbon Steel</b> <small>(23 21 13 23-1060)</small>		

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1247 EA 1/4" Hex Bushing, Screwed Carbon Steel.....	5.34	3.04
23 21 13 23-1248 EA 1/2" Hex Bushing, Screwed Carbon Steel.....	6.24	3.57
23 21 13 23-1249 EA 3/4" Hex Bushing, Screwed Carbon Steel.....	7.27	4.11
23 21 13 23-1250 EA 1" Hex Bushing, Screwed Carbon Steel.....	10.93	6.06
23 21 13 23-1251 EA 1-1/2" Hex Bushing, Screwed Carbon Steel.....	12.63	6.06
23 21 13 23-1252 EA 2" Hex Bushing, Screwed Carbon Steel.....	18.50	7.90
<b>23 21 13 23-1253 90 Degree Street Elbows, Screwed Carbon Steel (23 21 13 23-1060)</b>		
23 21 13 23-1254 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	32.89	16.45
23 21 13 23-1255 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	37.73	19.27
23 21 13 23-1256 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	43.71	21.54
23 21 13 23-1257 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	50.67	24.03
23 21 13 23-1258 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	77.29	30.73
23 21 13 23-1259 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	103.11	39.07
23 21 13 23-1260 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	49.62	19.27
23 21 13 23-1261 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	67.88	21.54
23 21 13 23-1262 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	91.13	24.03
23 21 13 23-1263 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	188.57	30.73
<b>23 21 13 23-1264 Screwed Carbon Steel Laterals (23 21 13 23-1060)</b>		
23 21 13 23-1265 EA 1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	117.98	24.03
23 21 13 23-1266 EA 3/4" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	141.33	27.82
23 21 13 23-1267 EA 1" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	172.40	32.79
23 21 13 23-1268 EA 1-1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	223.65	46.53
23 21 13 23-1269 EA 2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	278.87	57.79
23 21 13 23-1270 EA 1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	145.75	24.03
23 21 13 23-1271 EA 3/4" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	182.64	27.82
23 21 13 23-1272 EA 1" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	216.57	32.79
23 21 13 23-1273 EA 1-1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	304.84	46.53
<b>23 21 13 23-1274 Grooved-Joint Pipe (23 21 13 23)</b>		
Note: Includes grooving of pipe. Excludes hangers, elbow, tee, reducer fitting or couplings.		
<b>23 21 13 23-1275 Schedule 10 Black Grooved Pipe (23 21 13 23-1274)</b>		
23 21 13 23-1276 LF 2" Black Schedule 10 Grooved Pipe.....	25.92	13.75
23 21 13 23-1277 LF 2-1/2" Black Schedule 10 Grooved Pipe.....	35.21	18.83
23 21 13 23-1278 LF 3" Black Schedule 10 Grooved Pipe.....	39.36	20.88
23 21 13 23-1279 LF 3-1/2" Black Schedule 10 Grooved Pipe.....	42.79	21.65
23 21 13 23-1280 LF 4" Black Schedule 10 Grooved Pipe.....	45.72	23.49
23 21 13 23-1281 LF 5" Black Schedule 10 Grooved Pipe.....	61.63	28.78
23 21 13 23-1282 LF 6" Black Schedule 10 Grooved Pipe.....	82.01	40.91
23 21 13 23-1283 LF 8" Black Schedule 10 Grooved Pipe.....	105.35	45.89
23 21 13 23-1284 LF 10" Black Schedule 10 Grooved Pipe.....	130.61	55.31
23 21 13 23-1285 LF 12" Black Schedule 10 Grooved Pipe.....	149.93	62.66
<b>23 21 13 23-1286 Schedule 40 Black Grooved Pipe (23 21 13 23-1274)</b>		
23 21 13 23-1287 LF 3/4" Black Schedule 40 Grooved Pipe.....	15.60	8.33
23 21 13 23-1288 LF 1" Black Schedule 40 Grooved Pipe.....	17.60	9.42
23 21 13 23-1289 LF 1-1/4" Black Schedule 40 Grooved Pipe.....	19.71	10.17
23 21 13 23-1290 LF 1-1/2" Black Schedule 40 Grooved Pipe.....	22.42	11.58
23 21 13 23-1291 LF 2" Black Schedule 40 Grooved Pipe.....	28.36	14.72
23 21 13 23-1292 LF 2-1/2" Black Schedule 40 Grooved Pipe.....	39.25	20.13
23 21 13 23-1293 LF 3" Black Schedule 40 Grooved Pipe.....	45.78	22.94
23 21 13 23-1294 LF 4" Black Schedule 40 Grooved Pipe.....	54.39	25.54
23 21 13 23-1295 LF 5" Black Schedule 40 Grooved Pipe.....	72.12	31.07
23 21 13 23-1296 LF 6" Black Schedule 40 Grooved Pipe.....	99.03	44.80
23 21 13 23-1297 LF 8" Black Schedule 40 Grooved Pipe.....	125.68	50.75
23 21 13 23-1298 LF 10" Black Schedule 40 Grooved Pipe.....	166.95	60.60
23 21 13 23-1299 LF 12" Black Schedule 40 Grooved Pipe.....	195.45	69.59
23 21 13 23-1300 LF 14" Black Schedule 40 Grooved Pipe.....	259.40	94.05
23 21 13 23-1301 LF 16" Black Schedule 40 Grooved Pipe.....	301.95	110.60
23 21 13 23-1302 LF 18" Black Schedule 40 Grooved Pipe.....	372.84	134.31
23 21 13 23-1303 LF 20" Black Schedule 40 Grooved Pipe.....	431.14	156.60
23 21 13 23-1304 LF 24" Black Schedule 40 Grooved Pipe.....	552.39	187.99
<b>23 21 13 23-1305 Schedule 80 Black Grooved Pipe (23 21 13 23-1274)</b>		
23 21 13 23-1306 LF 3/4" Black Schedule 80 Grooved Pipe.....	17.08	9.10
23 21 13 23-1307 LF 1" Black Schedule 80 Grooved Pipe.....	18.68	9.63
23 21 13 23-1308 LF 1-1/4" Black Schedule 80 Grooved Pipe.....	21.52	10.71
23 21 13 23-1309 LF 1-1/2" Black Schedule 80 Grooved Pipe.....	24.38	12.01
23 21 13 23-1310 LF 2" Black Schedule 80 Grooved Pipe.....	31.51	15.48
23 21 13 23-1311 LF 2-1/2" Black Schedule 80 Grooved Pipe.....	43.99	21.32
23 21 13 23-1312 LF 3" Black Schedule 80 Grooved Pipe.....	51.50	23.92
23 21 13 23-1313 LF 4" Black Schedule 80 Grooved Pipe.....	62.05	26.08
23 21 13 23-1314 LF 5" Black Schedule 80 Grooved Pipe.....	90.04	32.79
23 21 13 23-1315 LF 6" Black Schedule 80 Grooved Pipe.....	120.05	46.97



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
				23 21 13 23-1316 LF 8" Black Schedule 80 Grooved Pipe.....	168.51	53.68
				23 21 13 23-1317 LF 10" Black Schedule 80 Grooved Pipe.....	208.38	64.82
				23 21 13 23-1318 LF 12" Black Schedule 80 Grooved Pipe.....	226.23	78.35
<b>23 21 13 23-1319</b>				<b>Schedule 40 Galvanized Grooved Pipe</b> <small>(23 21 13 23-1274)</small>		
				23 21 13 23-1320 LF 3/4" Galvanized Schedule 40 Grooved Pipe.....	15.93	8.33
				23 21 13 23-1321 LF 1" Galvanized Schedule 40 Grooved Pipe.....	18.30	9.42
				23 21 13 23-1322 LF 1-1/4" Galvanized Schedule 40 Grooved Pipe.....	20.23	10.17
				23 21 13 23-1323 LF 1-1/2" Galvanized Schedule 40 Grooved Pipe.....	23.02	11.58
				23 21 13 23-1324 LF 2" Galvanized Schedule 40 Grooved Pipe.....	29.19	14.72
				23 21 13 23-1325 LF 2-1/2" Galvanized Schedule 40 Grooved Pipe.....	40.57	20.13
				23 21 13 23-1326 LF 3" Galvanized Schedule 40 Grooved Pipe.....	47.55	22.94
				23 21 13 23-1327 LF 4" Galvanized Schedule 40 Grooved Pipe.....	56.89	25.54
				23 21 13 23-1328 LF 5" Galvanized Schedule 40 Grooved Pipe.....	76.83	31.07
				23 21 13 23-1329 LF 6" Galvanized Schedule 40 Grooved Pipe.....	105.45	44.80
				23 21 13 23-1330 LF 8" Galvanized Schedule 40 Grooved Pipe.....	134.52	50.75
				23 21 13 23-1331 LF 10" Galvanized Schedule 40 Grooved Pipe.....	182.60	60.60
				23 21 13 23-1332 LF 12" Galvanized Schedule 40 Grooved Pipe.....	214.41	69.59
<b>23 21 13 23-1333</b>				<b>Schedule 80 Galvanized Grooved Pipe</b> <small>(23 21 13 23-1274)</small>		
				23 21 13 23-1334 LF 3/4" Galvanized Schedule 80 Grooved Pipe.....	17.22	9.10
				23 21 13 23-1335 LF 1" Galvanized Schedule 80 Grooved Pipe.....	21.05	9.63
				23 21 13 23-1336 LF 1-1/4" Galvanized Schedule 80 Grooved Pipe.....	21.90	10.71
				23 21 13 23-1337 LF 1-1/2" Galvanized Schedule 80 Grooved Pipe.....	27.87	12.77
				23 21 13 23-1338 LF 2" Galvanized Schedule 80 Grooved Pipe.....	32.17	15.48
				23 21 13 23-1339 LF 2-1/2" Galvanized Schedule 80 Grooved Pipe.....	45.10	21.32
				23 21 13 23-1340 LF 3" Galvanized Schedule 80 Grooved Pipe.....	53.18	23.92
				23 21 13 23-1341 LF 4" Galvanized Schedule 80 Grooved Pipe.....	64.38	26.08
				23 21 13 23-1342 LF 5" Galvanized Schedule 80 Grooved Pipe.....	92.78	32.79
				23 21 13 23-1343 LF 6" Galvanized Schedule 80 Grooved Pipe.....	123.09	46.97
				23 21 13 23-1344 LF 8" Galvanized Schedule 80 Grooved Pipe.....	173.44	53.68
				23 21 13 23-1345 LF 10" Galvanized Schedule 80 Grooved Pipe.....	207.00	64.82
				23 21 13 23-1346 LF 12" Galvanized Schedule 80 Grooved Pipe.....	231.80	78.35
<b>23 21 13 23-1347</b>				<b>Painted Grooved-Joint Pipe Fittings</b> <small>(23 21 13 23)</small>		
				Note: Couplings are not included with fittings.		
<b>23 21 13 23-1348</b>				<b>Grooved Elbows</b> <small>(23 21 13 23-1347)</small>		
<b>23 21 13 23-1349</b>				<b>90 Degree Grooved Elbows</b> <small>(23 21 13 23-1348)</small>		
				Note: Victaulic No. 10		
				23 21 13 23-1350 EA 3/4" 90 Degree Elbow, Ductile Iron, Grooved.....	136.59	11.80
				<i>For Galvanized Fittings, Add</i>	39.24	
				23 21 13 23-1351 EA 1" 90 Degree Elbow, Ductile Iron, Grooved.....	136.59	11.80
				<i>For Galvanized Fittings, Add</i>	39.24	
				23 21 13 23-1352 EA 1-1/4" 90 Degree Elbow, Ductile Iron, Grooved.....	141.00	14.72
				<i>For Galvanized Fittings, Add</i>	39.24	
				23 21 13 23-1353 EA 1-1/2" 90 degree Elbow, Ductile Iron, Grooved.....	145.69	17.86
				<i>For Galvanized Fittings, Add</i>	39.24	
				23 21 13 23-1354 EA 2" 90 Degree Elbow, Ductile Iron, Grooved.....	154.27	23.60
				<i>For Galvanized Fittings, Add</i>	39.24	
				23 21 13 23-1355 EA 2-1/2" 90 Degree Elbow, Ductile Iron, Grooved.....	161.99	28.78
				<i>For Galvanized Fittings, Add</i>	39.24	
				23 21 13 23-1356 EA 3" 90 Degree Elbow, Ductile Iron, Grooved.....	263.44	34.84
				<i>For Galvanized Fittings, Add</i>	69.70	
				23 21 13 23-1357 EA 4" 90 Degree Elbow, Ductile Iron, Grooved.....	298.99	46.00
				<i>For Galvanized Fittings, Add</i>	75.92	
				23 21 13 23-1358 EA 5" 90 Degree Elbow, Ductile Iron, Grooved.....	646.18	57.47
				<i>For Galvanized Fittings, Add</i>	184.80	
				23 21 13 23-1359 EA 6" 90 Degree Elbow, Ductile Iron, Grooved.....	763.55	75.22
				<i>For Galvanized Fittings, Add</i>	214.77	
				23 21 13 23-1360 EA 8" 90 Degree Elbow, Ductile Iron, Grooved.....	1,503.97	89.51
				<i>For Galvanized Fittings, Add</i>	452.02	
				23 21 13 23-1361 EA 10" 90 Degree Elbow, Ductile Iron, Grooved.....	2,290.68	104.44
				<i>For Galvanized Fittings, Add</i>	704.25	
				23 21 13 23-1362 EA 12" 90 Degree Elbow, Ductile Iron, Grooved.....	3,608.50	125.33
				<i>For Galvanized Fittings, Add</i>	1,128.80	
				23 21 13 23-1363 EA 14" 90 Degree Elbow, Steel, Grooved.....	7,325.79	141.45
				<i>For Galvanized Fittings, Add</i>	2,347.51	
				23 21 13 23-1364 EA 16" 90 Degree Elbow, Steel, Grooved.....	9,543.14	156.60
				<i>For Galvanized Fittings, Add</i>	3,071.74	
				23 21 13 23-1365 EA 18" 90 Degree Elbow, Steel, Grooved.....	12,062.13	171.10
				<i>For Galvanized Fittings, Add</i>	3,895.86	
				23 21 13 23-1366 EA 20" 90 Degree Elbow, Steel, Grooved.....	15,780.66	177.92
				<i>For Galvanized Fittings, Add</i>	5,119.56	
				23 21 13 23-1367 EA 24" 90 Degree Elbow, Steel, Grooved.....	22,640.12	210.39
				<i>For Galvanized Fittings, Add</i>	7,367.18	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 21 13 23-1368 45 Degree Grooved Elbows</b> (23 21 13 23-1348) Note: Victaulic No. 11		
23 21 13 23-1369 EA 3/4" 45 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	136.51 28.52	11.80
23 21 13 23-1370 EA 1" 45 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	136.51 28.52	11.80
23 21 13 23-1371 EA 1-1/4" 45 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	140.92 28.52	14.72
23 21 13 23-1372 EA 1-1/2" 45 degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	145.61 28.52	17.86
23 21 13 23-1373 EA 2" 45 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	154.19 28.52	23.60
23 21 13 23-1374 EA 2-1/2" 45 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	161.91 28.52	28.78
23 21 13 23-1375 EA 3" 45 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	263.36 50.67	34.84
23 21 13 23-1376 EA 4" 45 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	298.99 55.21	46.00
23 21 13 23-1377 EA 5" 45 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	646.18 134.40	57.47
23 21 13 23-1378 EA 6" 45 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	763.55 156.20	75.22
23 21 13 23-1379 EA 8" 45 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	1,503.97 328.74	89.51
23 21 13 23-1380 EA 10" 45 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	2,290.68 512.18	104.44
23 21 13 23-1381 EA 12" 45 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	3,608.50 820.95	125.33
23 21 13 23-1382 EA 14" 45 Degree Elbow, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	7,325.79 1,707.28	141.45
23 21 13 23-1383 EA 16" 45 Degree Elbow, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	9,543.14 2,233.99	156.60
23 21 13 23-1384 EA 18" 45 Degree Elbow, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	12,062.13 2,833.36	171.10
23 21 13 23-1385 EA 20" 45 Degree Elbow, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	15,781.13 3,723.32	178.25
23 21 13 23-1386 EA 24" 45 Degree Elbow, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	22,640.12 5,357.95	210.39
<b>23 21 13 23-1387 22-1/2 Degree Grooved Elbows</b> (23 21 13 23-1348) Note: Victaulic No. 12		
23 21 13 23-1388 EA 1" 22-1/2 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	144.33 30.39	11.80
23 21 13 23-1389 EA 1-1/4" 22-1/2 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	148.74 30.39	14.72
23 21 13 23-1390 EA 1-1/2" 22-1/2 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	153.43 30.39	17.86
23 21 13 23-1391 EA 2" 22-1/2 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	162.01 30.39	23.60
23 21 13 23-1392 EA 2-1/2" 22-1/2 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	169.73 30.39	28.78
23 21 13 23-1393 EA 3" 22-1/2 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	237.45 44.46	34.84
23 21 13 23-1394 EA 4" 22-1/2 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	317.29 59.61	46.00
23 21 13 23-1395 EA 5" 22-1/2 Degree Elbow, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	856.36 184.85	57.47
23 21 13 23-1396 EA 6" 22-1/2 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	816.33 168.86	75.22
23 21 13 23-1397 EA 8" 22-1/2 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	1,606.37 353.32	89.51
23 21 13 23-1398 EA 10" 22-1/2 Degree Elbow, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	2,177.68 485.06	104.44
23 21 13 23-1399 EA 12" 22-1/2 Degree Elbow, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	2,920.23 655.76	125.33
23 21 13 23-1400 EA 14" 22-1/2 Degree Elbow, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	3,368.05 757.42	141.45
23 21 13 23-1401 EA 16" 22-1/2 Degree Elbow, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	4,019.94 908.42	156.60
23 21 13 23-1402 EA 18" 22-1/2 Degree Elbow, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	4,840.52 1,100.17	171.10
23 21 13 23-1403 EA 20" 22-1/2 Degree Elbow, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	5,686.38 1,300.69	177.92
23 21 13 23-1404 EA 24" 22-1/2 Degree Elbow, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	7,598.06 1,747.85	210.39
<b>23 21 13 23-1405 11-1/4 Degree Grooved Elbows</b> (23 21 13 23-1348) Note: Victaulic No. 13		
23 21 13 23-1406 EA 1" 11-1/4 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	144.33 30.39	11.80
23 21 13 23-1407 EA 1-1/4" 11-1/4 Degree Elbow, Ductile Iron, Grooved ..... <i>For Galvanized Fittings, Add</i>	148.74 30.39	14.72





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1408 EA 1-1/2" 11-1/4 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	153.43 30.39	17.86
23 21 13 23-1409 EA 2" 11-1/4 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	162.01 30.39	23.60
23 21 13 23-1410 EA 2-1/2" 11-1/4 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	169.73 30.39	28.78
23 21 13 23-1411 EA 3" 11-1/4 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	237.43 44.45	34.84
23 21 13 23-1412 EA 4" 11-1/4 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	317.27 59.60	46.00
23 21 13 23-1413 EA 5" 11-1/4 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	856.33 184.84	57.47
23 21 13 23-1414 EA 6" 11-1/4 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	816.30 168.86	75.22
23 21 13 23-1415 EA 8" 11-1/4 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	1,606.28 353.30	89.51
23 21 13 23-1416 EA 10" 11-1/4 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	2,177.56 485.04	104.44
23 21 13 23-1417 EA 12" 11-1/4 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	2,920.08 655.73	125.33
23 21 13 23-1418 EA 14" 11-1/4 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	3,367.87 757.38	141.45
23 21 13 23-1419 EA 16" 11-1/4 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	4,019.77 908.37	156.71
23 21 13 23-1420 EA 18" 11-1/4 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	4,840.25 1,100.11	171.10
23 21 13 23-1421 EA 20" 11-1/4 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	5,686.08 1,300.62	177.92
23 21 13 23-1422 EA 24" 11-1/4 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	7,597.66 1,747.76	210.39
<b>23 21 13 23-1423 90 Degree Grooved Long Radius Elbows</b> <small>(23 21 13 23-1348)</small> Note: Victaulic No. 100		
23 21 13 23-1424 EA 2" 90 Degree Long Radius Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	307.20 65.24	23.60
23 21 13 23-1425 EA 2-1/2" 90 Degree Long Radius Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	831.82 189.30	28.78
23 21 13 23-1426 EA 3" 90 Degree Long Radius Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	324.05 65.24	34.84
23 21 13 23-1427 EA 4" 90 Degree Long Radius Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	476.12 97.73	46.00
23 21 13 23-1428 EA 5" 90 Degree Long Radius Elbow, Steel Grooved..... <i>For Galvanized Fittings, Add</i>	2,173.27 500.90	57.47
23 21 13 23-1429 EA 6" 90 Degree Long Radius Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	1,303.93 285.89	75.22
23 21 13 23-1430 EA 8" 90 Degree Long Radius Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	2,991.48 685.74	89.51
23 21 13 23-1431 EA 10" 90 Degree Long Radius Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	6,080.90 1,421.84	104.44
23 21 13 23-1432 EA 12" 90 Degree Long Radius Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	7,252.65 1,695.54	125.33
<b>23 21 13 23-1433 Grooved Tees, Wyes And Crosses</b> <small>(23 21 13 23-1347)</small>		
<b>23 21 13 23-1434 Grooved Tees</b> <small>(23 21 13 23-1433)</small> Note: Victaulic No. 20		
23 21 13 23-1435 EA 3/4" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	204.96 54.51	15.48
23 21 13 23-1436 EA 1" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	208.48 54.51	17.86
23 21 13 23-1437 EA 1-1/4" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	214.43 54.51	21.86
23 21 13 23-1438 EA 1-1/2" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	221.88 54.51	26.84
23 21 13 23-1439 EA 2" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	233.70 54.51	34.74
23 21 13 23-1440 EA 2-1/2" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	245.52 54.51	42.53
23 21 13 23-1441 EA 3" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	332.84 76.35	52.27
23 21 13 23-1442 EA 4" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	491.78 117.12	67.64
23 21 13 23-1443 EA 5" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	1,048.50 274.78	88.42
23 21 13 23-1444 EA 6" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	1,224.37 317.57	110.60
23 21 13 23-1445 EA 8" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	2,513.69 693.71	134.31
23 21 13 23-1446 EA 10" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	4,364.08 1,238.77	156.60
23 21 13 23-1447 EA 12" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	6,062.75 1,734.27	187.99

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1448 EA 14" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	6,619.60 1,891.94	208.87
23 21 13 23-1449 EA 16" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	8,348.16 2,409.97	210.07
23 21 13 23-1450 EA 18" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	10,407.65 3,018.09	231.71
23 21 13 23-1451 EA 20" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	14,767.60 4,324.43	235.40
23 21 13 23-1452 EA 24" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	22,581.25 6,644.30	289.18
<b>23 21 13 23-1453 Grooved Wyes (90 Degree True Wye) (23 21 13 23-1433)</b> Note: Victaulic No. 33		
23 21 13 23-1454 EA 1" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	793.37 122.65	17.86
23 21 13 23-1455 EA 1-1/4" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	799.32 122.65	21.86
23 21 13 23-1456 EA 1-1/2" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	806.77 122.65	26.84
23 21 13 23-1457 EA 2" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	818.59 122.65	34.74
23 21 13 23-1458 EA 2-1/2" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	830.41 122.65	42.53
23 21 13 23-1459 EA 3" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	994.67 146.61	52.27
23 21 13 23-1460 EA 4" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	1,301.61 192.04	67.64
23 21 13 23-1461 EA 5" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	1,852.92 275.26	88.42
23 21 13 23-1462 EA 6" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	2,294.37 340.57	110.60
23 21 13 23-1463 EA 8" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	3,267.06 490.52	134.31
23 21 13 23-1464 EA 10" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	5,526.27 846.63	156.60
23 21 13 23-1465 EA 12" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	6,127.62 935.32	187.99
23 21 13 23-1466 EA 14" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	6,988.38 1,068.04	208.87
23 21 13 23-1467 EA 16" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	8,984.88 1,387.24	209.85
23 21 13 23-1468 EA 18" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	10,265.52 1,586.84	231.93
23 21 13 23-1469 EA 20" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	14,736.42 2,301.46	234.96
23 21 13 23-1470 EA 24" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	22,796.87 3,578.12	289.18
<b>23 21 13 23-1471 Grooved Crosses (23 21 13 23-1433)</b> Note: Victaulic No. 35		
23 21 13 23-1472 EA 3/4" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	531.21 74.45	23.27
23 21 13 23-1473 EA 1" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	536.50 74.45	26.84
23 21 13 23-1474 EA 1-1/4" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	648.14 89.85	32.79
23 21 13 23-1475 EA 1-1/2" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	705.75 96.82	40.26
23 21 13 23-1476 EA 2" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	442.79 54.72	52.06
23 21 13 23-1477 EA 2-1/2" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	460.51 54.72	63.85
23 21 13 23-1478 EA 3" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	772.97 98.32	78.35
23 21 13 23-1479 EA 4" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	1,243.18 163.67	101.41
23 21 13 23-1480 EA 5" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	2,427.92 334.36	132.57
23 21 13 23-1481 EA 6" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	3,116.61 430.19	165.91
23 21 13 23-1482 EA 8" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	4,079.03 566.56	201.41
23 21 13 23-1483 EA 10" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	6,794.29 966.30	234.96
23 21 13 23-1484 EA 12" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	9,719.07 1,394.45	282.04
23 21 13 23-1485 EA 14" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	10,101.18 1,444.72	313.31
23 21 13 23-1486 EA 16" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	13,071.93 1,889.92	315.15
23 21 13 23-1487 EA 18" Cross, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	15,965.02 2,316.60	347.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1488 EA 20" Cross, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	22,408.95 3,281.97	352.92
23 21 13 23-1489 EA 24" Cross, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	34,427.95 5,066.63	433.77
<b>23 21 13 23-1490 Grooved Reducing Tees</b> (23 21 13 23-1433) Note: Victaulic No. 25		
23 21 13 23-1491 EA 1" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	377.35 70.11	17.86
23 21 13 23-1492 EA 1-1/4" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	394.31 72.31	21.86
23 21 13 23-1493 EA 1-1/2" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	410.77 74.12	26.84
23 21 13 23-1494 EA 2" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	485.86 86.77	34.74
23 21 13 23-1495 EA 2-1/2" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	542.32 95.70	42.53
23 21 13 23-1496 EA 3" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	602.07 104.75	52.27
23 21 13 23-1497 EA 4" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	807.70 141.26	67.64
23 21 13 23-1498 EA 5" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	1,065.21 186.53	88.42
23 21 13 23-1499 EA 6" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	1,477.80 262.40	110.60
23 21 13 23-1500 EA 8" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	2,366.13 432.96	134.31
23 21 13 23-1501 EA 10" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	3,426.25 638.28	156.60
23 21 13 23-1502 EA 12" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	4,989.66 941.56	187.99
23 21 13 23-1503 EA 14" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	5,660.22 1,069.41	208.87
23 21 13 23-1504 EA 16" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	7,260.68 1,389.14	210.07
23 21 13 23-1505 EA 18" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	8,850.62 1,700.66	231.71
23 21 13 23-1506 EA 20" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	12,514.00 2,432.25	235.28
23 21 13 23-1507 EA 24" Reducing Tee, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	20,022.83 3,917.85	289.18
<b>23 21 13 23-1508 Grooved 45 Degree Lateral Wyes</b> (23 21 13 23-1433) Note: Victaulic No. 30		
23 21 13 23-1509 EA 3/4" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	749.23 130.67	15.48
23 21 13 23-1510 EA 1" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	752.75 130.67	17.86
23 21 13 23-1511 EA 1-1/4" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	758.70 130.67	21.86
23 21 13 23-1512 EA 1-1/2" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	766.15 130.67	26.84
23 21 13 23-1513 EA 2" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	777.97 130.67	34.74
23 21 13 23-1514 EA 2-1/2" Wye, 45 Degree Lateral, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	789.79 130.67	42.53
23 21 13 23-1515 EA 3" Wye, 45 Degree Lateral, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	705.50 112.89	52.27
23 21 13 23-1516 EA 3-1/2" Wye, 45 Degree Lateral, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	1,152.87 191.26	60.28
23 21 13 23-1517 EA 4" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	1,338.24 222.63	67.64
23 21 13 23-1518 EA 5" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	1,940.19 325.37	88.42
23 21 13 23-1519 EA 6" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	3,078.19 524.23	110.60
23 21 13 23-1520 EA 8" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	4,396.25 755.09	134.31
23 21 13 23-1521 EA 10" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	6,155.91 1,065.79	156.60
23 21 13 23-1522 EA 12" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	7,440.66 1,288.59	187.99
23 21 13 23-1523 EA 14" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	10,761.91 1,880.78	208.87
23 21 13 23-1524 EA 16" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	13,368.28 2,349.60	210.07
23 21 13 23-1525 EA 18" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	14,939.34 2,626.56	231.71
23 21 13 23-1526 EA 20" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	22,486.41 3,984.06	235.28
23 21 13 23-1527 EA 24" 45 Degree Lateral Wye, Steel, Grooved ..... <i>For Galvanized Fittings, Add</i>	34,827.63 6,190.93	289.18

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 21 13 23-1528 Grooved 45 Degree Lateral Reducing Wyes</b> (23 21 13 23-1433) Note: Victaulic No. 30R		
23 21 13 23-1529 EA 3" 45 Degree Lateral Reducing Wye, Steel, Grooved.....	705.50	52.27
For Galvanized Fittings, Add	81.53	
23 21 13 23-1530 EA 4" 45 Degree Lateral Reducing Wye, Steel, Grooved.....	1,338.24	67.64
For Galvanized Fittings, Add	160.79	
23 21 13 23-1531 EA 5" 45 Degree Lateral Reducing Wye, Steel, Grooved.....	1,940.19	88.42
For Galvanized Fittings, Add	234.99	
23 21 13 23-1532 EA 6" 45 Degree Lateral Reducing Wye, Steel, Grooved.....	2,501.24	110.60
For Galvanized Fittings, Add	303.61	
23 21 13 23-1533 EA 8" 45 Degree Lateral Reducing Wye, Steel, Grooved.....	3,572.77	134.31
For Galvanized Fittings, Add	438.29	
23 21 13 23-1534 EA 10" 45 Degree Lateral Reducing Wye, Steel, Grooved.....	4,363.93	156.60
For Galvanized Fittings, Add	536.78	
23 21 13 23-1535 EA 12" 45 Degree Lateral Reducing Wye, Steel, Grooved.....	5,299.67	187.99
For Galvanized Fittings, Add	652.32	
23 21 13 23-1536 EA 14" 45 Degree Lateral Reducing Wye, Steel, Grooved.....	5,934.39	208.87
For Galvanized Fittings, Add	730.76	
23 21 13 23-1537 EA 16" 45 Degree Lateral Reducing Wye, Steel, Grooved.....	7,580.92	210.07
For Galvanized Fittings, Add	944.57	
23 21 13 23-1538 EA 18" 45 Degree Lateral Reducing Wye, Steel, Grooved.....	11,504.21	231.71
For Galvanized Fittings, Add	1,450.40	
23 21 13 23-1539 EA 20" 45 Degree Lateral Reducing Wye, Steel, Grooved.....	16,683.52	235.28
For Galvanized Fittings, Add	2,123.00	
23 21 13 23-1540 EA 24" 45 Degree Lateral Reducing Wye, Steel, Grooved.....	26,873.71	289.18
For Galvanized Fittings, Add	3,437.22	
<b>23 21 13 23-1541 Mechanical-T Outlet</b> (23 21 13 23-1433) Note: Includes making opening in pipe. Grooved or treaded branch outlets. Victaulic Styles 920 or 921.		
23 21 13 23-1542 EA 2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	198.65	38.96
For Galvanized Fittings, Add	29.94	
23 21 13 23-1543 EA 2" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	198.65	38.96
For Galvanized Fittings, Add	29.94	
23 21 13 23-1544 EA 2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	217.49	38.96
For Galvanized Fittings, Add	34.61	
23 21 13 23-1545 EA 2" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet.....	217.49	38.96
23 21 13 23-1546 EA 2-1/2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	208.40	43.83
23 21 13 23-1547 EA 2-1/2" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	208.40	43.83
23 21 13 23-1548 EA 2-1/2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	258.16	43.83
23 21 13 23-1549 EA 3" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	236.43	48.70
23 21 13 23-1550 EA 3" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	236.43	48.70
23 21 13 23-1551 EA 3" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	276.49	48.70
23 21 13 23-1552 EA 3" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet.....	276.49	48.70
23 21 13 23-1553 EA 3" x 2" Mechanical-T Outlet With Threaded Branch Outlet.....	303.93	48.70
23 21 13 23-1554 EA 4" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet.....	307.12	64.93
23 21 13 23-1555 EA 4" x 1" Mechanical-T Outlet With Threaded Branch Outlet.....	307.12	64.93
23 21 13 23-1556 EA 4" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet.....	338.40	64.93
23 21 13 23-1557 EA 4" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	347.18	64.93
23 21 13 23-1558 EA 4" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	347.18	64.93
23 21 13 23-1559 EA 4" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	355.96	64.93
23 21 13 23-1560 EA 4" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	372.79	64.93
23 21 13 23-1561 EA 5" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	445.46	89.29
23 21 13 23-1562 EA 5" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	445.46	89.29
23 21 13 23-1563 EA 5" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	460.64	89.29
23 21 13 23-1564 EA 5" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	479.66	89.29
23 21 13 23-1565 EA 6" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	500.38	113.64
23 21 13 23-1566 EA 6" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	500.38	113.64
23 21 13 23-1567 EA 6" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	522.69	113.64
23 21 13 23-1568 EA 6" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	541.53	113.64
23 21 13 23-1569 EA 6" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	575.01	113.64
23 21 13 23-1570 EA 8" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	784.16	150.43
23 21 13 23-1571 EA 8" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	784.16	150.43
23 21 13 23-1572 EA 8" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	811.05	150.43
23 21 13 23-1573 EA 8" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	826.96	150.43
<b>23 21 13 23-1574 Installation-Ready™ Grooved Fittings</b> (23 21 13 23-1347)		
<b>23 21 13 23-1575 Installation-Ready™ 90 Degree Grooved Elbows</b> (23 21 13 23-1574) Note: Victaulic No. 101		
23 21 13 23-1576 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	147.74	10.71
For Galvanized Fittings, Add	43.40	
For Galvanized Fittings, Add	33.67	
23 21 13 23-1577 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	154.85	12.85
For Galvanized Fittings, Add	44.67	
For Galvanized Fittings, Add	34.65	
23 21 13 23-1578 EA 2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow.....	162.31	17.15
For Galvanized Fittings, Add	44.99	
For Galvanized Fittings, Add	34.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1579 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow .....	196.85	21.43
For Galvanized Fittings, Add	54.25	
For Galvanized Fittings, Add	42.08	
<b>23 21 13 23-1580 Installation-Ready™ 45 Degree Grooved Elbows (23 21 13 23-1574)</b>		
Note: Victaulic No. 103		
23 21 13 23-1581 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow .....	147.74	10.71
For Galvanized Fittings, Add	31.56	
For Galvanized Fittings, Add	33.67	
23 21 13 23-1582 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow .....	154.85	12.85
For Galvanized Fittings, Add	32.49	
For Galvanized Fittings, Add	34.65	
23 21 13 23-1583 EA 2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow .....	162.31	17.15
For Galvanized Fittings, Add	32.72	
For Galvanized Fittings, Add	34.90	
23 21 13 23-1584 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow .....	196.85	21.43
For Galvanized Fittings, Add	39.45	
For Galvanized Fittings, Add	42.08	
<b>23 21 13 23-1585 Installation-Ready™ Grooved Tees (23 21 13 23-1574)</b>		
Note: Victaulic No. 102		
23 21 13 23-1586 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ Tee .....	224.71	14.28
For Galvanized Fittings, Add	60.92	
For Galvanized Fittings, Add	51.98	
23 21 13 23-1587 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee .....	235.80	17.15
For Galvanized Fittings, Add	62.95	
For Galvanized Fittings, Add	53.72	
23 21 13 23-1588 EA 2" Ductile Iron, Grooved, Installation-Ready™ Tee .....	247.36	22.85
For Galvanized Fittings, Add	63.82	
For Galvanized Fittings, Add	54.46	
23 21 13 23-1589 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee .....	288.90	28.57
For Galvanized Fittings, Add	73.68	
For Galvanized Fittings, Add	62.88	
<b>23 21 13 23-1590 Grooved Fittings (23 21 13 23-1347)</b>		
<b>23 21 13 23-1591 Flanged Adapter Nipple, Grooved (23 21 13 23-1590)</b>		
Note: Victaulic No. 41 and 45		
23 21 13 23-1592 EA 1" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	530.38	12.98
For Galvanized Fittings, Add	91.96	
For 300 LB Rating, Add	76.64	
23 21 13 23-1593 EA 1-1/4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	532.55	14.39
For Galvanized Fittings, Add	91.96	
For 300 LB Rating, Add	76.64	
23 21 13 23-1594 EA 1-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	537.96	18.07
For Galvanized Fittings, Add	91.96	
For 300 LB Rating, Add	76.64	
23 21 13 23-1595 EA 2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	549.34	25.65
For Galvanized Fittings, Add	91.96	
For 300 LB Rating, Add	76.64	
23 21 13 23-1596 EA 2-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	557.47	31.07
For Galvanized Fittings, Add	91.96	
For 300 LB Rating, Add	76.64	
23 21 13 23-1597 EA 3" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	709.32	37.13
For Galvanized Fittings, Add	117.67	
For 300 LB Rating, Add	98.06	
23 21 13 23-1598 EA 4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	854.56	50.00
For Galvanized Fittings, Add	140.34	
For 300 LB Rating, Add	116.95	
23 21 13 23-1599 EA 5" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	1,204.75	60.50
For Galvanized Fittings, Add	200.53	
For 300 LB Rating, Add	167.11	
23 21 13 23-1600 EA 6" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	1,393.61	81.71
For Galvanized Fittings, Add	228.79	
For 300 LB Rating, Add	190.66	
23 21 13 23-1601 EA 8" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	1,920.29	110.60
For Galvanized Fittings, Add	315.81	
For 300 LB Rating, Add	263.18	
23 21 13 23-1602 EA 10" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	3,064.41	134.31
For Galvanized Fittings, Add	515.36	
For 300 LB Rating, Add	429.46	
23 21 13 23-1603 EA 12" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	4,149.60	156.60
For Galvanized Fittings, Add	704.65	
For 300 LB Rating, Add	587.21	
23 21 13 23-1604 EA 14" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	4,898.38	187.99
For Galvanized Fittings, Add	830.98	
For 300 LB Rating, Add	692.48	
23 21 13 23-1605 EA 16" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	7,422.70	208.87
For Galvanized Fittings, Add	1,279.72	
For 300 LB Rating, Add	1,066.43	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1606 EA 18" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	8,820.48 1,503.14 1,252.61	313.31
23 21 13 23-1607 EA 20" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	9,267.86 1,566.75 1,305.63	375.98
23 21 13 23-1608 EA 24" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	15,642.11 2,702.84 2,252.37	417.76
<b>23 21 13 23-1609 Grooved Concentric Reducers (23 21 13 23-1590)</b> Note: Victaulic No. 50		
23 21 13 23-1610 EA 1-1/4" x 3/4" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	564.41 23.98	12.98
23 21 13 23-1611 EA 1-1/4" x 1" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	590.05 25.06	13.75
23 21 13 23-1612 EA 1-1/2" x 3/4" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	665.37 77.31	14.82
23 21 13 23-1613 EA 1-1/2" x 1" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	161.00 16.56	15.48
23 21 13 23-1614 EA 1-1/2" x 1-1/4" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	557.45 64.08	16.23
23 21 13 23-1615 EA 2" x 3/4" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	164.24 16.56	17.64
23 21 13 23-1616 EA 2" x 1" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	165.33 16.56	18.40
23 21 13 23-1617 EA 2" x 1-1/4" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	180.24 18.22	19.16
23 21 13 23-1618 EA 2" x 1-1/2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	169.72 16.56	21.32
23 21 13 23-1619 EA 2-1/2" x 3/4" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	1,150.83 134.74	19.91
23 21 13 23-1620 EA 2-1/2" x 1" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	910.26 105.70	20.67
23 21 13 23-1621 EA 2-1/2" x 1-1/4" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	828.00 95.68	21.32
23 21 13 23-1622 EA 2-1/2" x 1-1/2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	172.90 16.56	23.49
23 21 13 23-1623 EA 2-1/2" x 2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	177.23 16.56	26.30
23 21 13 23-1624 EA 3" x 3/4" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	1,162.92 171.49	23.16
23 21 13 23-1625 EA 3" x 1" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	187.78 23.12	23.81
23 21 13 23-1626 EA 3" x 1-1/4" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	910.64 132.83	24.56
23 21 13 23-1627 EA 3" x 1-1/2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	851.52 123.43	26.30
23 21 13 23-1628 EA 3" x 2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	164.64 18.36	29.23
23 21 13 23-1629 EA 3" x 2-1/2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	218.70 25.30	34.84
23 21 13 23-1630 EA 3-1/2" x 3" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	233.67 26.96	37.56
23 21 13 23-1631 EA 4" x 1" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	227.24 31.36	29.55
23 21 13 23-1632 EA 4" x 1-1/4" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	1,491.02 247.91	30.30
23 21 13 23-1633 EA 4" x 1-1/2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	1,153.31 189.53	32.14
23 21 13 23-1634 EA 4" x 2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	213.33 27.58	35.07
23 21 13 23-1635 EA 4" x 2-1/2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	257.88 34.57	37.56
23 21 13 23-1636 EA 4" x 3" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	262.21 34.57	40.47
23 21 13 23-1637 EA 4" x 3-1/2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	266.54 34.57	43.29
23 21 13 23-1638 EA 5" x 2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	2,095.49 348.89	40.80
23 21 13 23-1639 EA 5" x 2-1/2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	1,643.32 270.69	43.29
23 21 13 23-1640 EA 5" x 3" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	305.25 40.47	46.21
23 21 13 23-1641 EA 5" x 4" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	359.76 48.33	51.95
23 21 13 23-1642 EA 6" x 1" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	440.83 69.94	44.05
23 21 13 23-1643 EA 6" x 1-1/2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	2,208.76 399.13	46.53
23 21 13 23-1644 EA 6" x 2" Concentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	448.94 69.94	49.46



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1645 EA 6" x 2-1/2" Concentric Reducer, Grooved.....	2,229.07	51.95
For Galvanized Fittings, Add	401.40	
23 21 13 23-1646 EA 6" x 3" Concentric Reducer, Grooved.....	457.07	54.87
For Galvanized Fittings, Add	69.94	
23 21 13 23-1647 EA 6" x 4" Concentric Reducer, Grooved.....	417.32	60.60
For Galvanized Fittings, Add	60.91	
23 21 13 23-1648 EA 6" x 5" Concentric Reducer, Grooved.....	582.46	66.45
For Galvanized Fittings, Add	90.11	
23 21 13 23-1649 EA 8" x 3" Concentric Reducer, Grooved.....	762.81	62.12
For Galvanized Fittings, Add	124.97	
23 21 13 23-1650 EA 8" x 4" Concentric Reducer, Grooved.....	771.46	67.86
For Galvanized Fittings, Add	124.97	
23 21 13 23-1651 EA 8" x 5" Concentric Reducer, Grooved.....	780.13	73.60
For Galvanized Fittings, Add	124.97	
23 21 13 23-1652 EA 8" x 6" Concentric Reducer, Grooved.....	977.43	82.25
For Galvanized Fittings, Add	159.37	
23 21 13 23-1653 EA 10" x 4" Concentric Reducer, Grooved.....	1,707.68	75.44
For Galvanized Fittings, Add	297.55	
23 21 13 23-1654 EA 10" x 5" Concentric Reducer, Grooved.....	3,636.77	81.17
For Galvanized Fittings, Add	655.90	
23 21 13 23-1655 EA 10" x 6" Concentric Reducer, Grooved.....	1,878.50	89.83
For Galvanized Fittings, Add	325.39	
23 21 13 23-1656 EA 10" x 8" Concentric Reducer, Grooved.....	1,889.31	97.07
For Galvanized Fittings, Add	325.39	
23 21 13 23-1657 EA 12" x 4" Concentric Reducer, Grooved.....	5,407.38	85.93
For Galvanized Fittings, Add	791.79	
23 21 13 23-1658 EA 12" x 6" Concentric Reducer, Grooved.....	2,230.22	100.32
For Galvanized Fittings, Add	311.97	
23 21 13 23-1659 EA 12" x 8" Concentric Reducer, Grooved.....	3,285.43	107.58
For Galvanized Fittings, Add	468.63	
23 21 13 23-1660 EA 12" x 10" Concentric Reducer, Grooved.....	3,296.84	115.15
For Galvanized Fittings, Add	468.63	
23 21 13 23-1661 EA 14" x 6" Concentric Reducer, Grooved.....	10,762.43	108.12
For Galvanized Fittings, Add	325.43	
23 21 13 23-1662 EA 14" x 8" Concentric Reducer, Grooved.....	6,394.98	115.37
For Galvanized Fittings, Add	191.02	
23 21 13 23-1663 EA 14" x 10" Concentric Reducer, Grooved.....	5,437.80	122.94
For Galvanized Fittings, Add	161.28	
23 21 13 23-1664 EA 14" x 12" Concentric Reducer, Grooved.....	5,453.47	133.34
For Galvanized Fittings, Add	161.28	
23 21 13 23-1665 EA 16" x 8" Concentric Reducer, Grooved.....	9,771.08	123.05
For Galvanized Fittings, Add	294.31	
23 21 13 23-1666 EA 16" x 10" Concentric Reducer, Grooved.....	9,059.21	130.63
For Galvanized Fittings, Add	272.10	
23 21 13 23-1667 EA 16" x 12" Concentric Reducer, Grooved.....	8,365.98	141.12
For Galvanized Fittings, Add	250.34	
23 21 13 23-1668 EA 16" x 14" Concentric Reducer, Grooved.....	8,377.66	148.92
For Galvanized Fittings, Add	250.34	
23 21 13 23-1669 EA 18" x 10" Concentric Reducer, Grooved.....	12,722.35	137.88
For Galvanized Fittings, Add	384.23	
23 21 13 23-1670 EA 18" x 12" Concentric Reducer, Grooved.....	11,507.12	148.27
For Galvanized Fittings, Add	346.44	
23 21 13 23-1671 EA 18" x 14" Concentric Reducer, Grooved.....	10,450.10	156.06
For Galvanized Fittings, Add	313.63	
23 21 13 23-1672 EA 18" x 16" Concentric Reducer, Grooved.....	10,461.80	163.96
For Galvanized Fittings, Add	313.63	
23 21 13 23-1673 EA 20" x 10" Concentric Reducer, Grooved.....	14,008.41	141.45
For Galvanized Fittings, Add	423.55	
23 21 13 23-1674 EA 20" x 12" Concentric Reducer, Grooved.....	11,990.15	151.95
For Galvanized Fittings, Add	361.11	
23 21 13 23-1675 EA 20" x 14" Concentric Reducer, Grooved.....	12,001.84	159.74
For Galvanized Fittings, Add	361.11	
23 21 13 23-1676 EA 20" x 16" Concentric Reducer, Grooved.....	10,686.27	167.43
For Galvanized Fittings, Add	320.36	
23 21 13 23-1677 EA 20" x 18" Concentric Reducer, Grooved.....	11,389.88	174.67
For Galvanized Fittings, Add	341.63	
23 21 13 23-1678 EA 24" x 10" Concentric Reducer, Grooved.....	30,979.20	157.36
For Galvanized Fittings, Add	943.82	
23 21 13 23-1679 EA 24" x 12" Concentric Reducer, Grooved.....	30,252.48	167.86
For Galvanized Fittings, Add	921.02	
23 21 13 23-1680 EA 24" x 14" Concentric Reducer, Grooved.....	26,346.69	175.55
For Galvanized Fittings, Add	800.76	
23 21 13 23-1681 EA 24" x 16" Concentric Reducer, Grooved.....	26,358.46	183.45
For Galvanized Fittings, Add	800.76	
23 21 13 23-1682 EA 24" x 18" Concentric Reducer, Grooved.....	22,549.45	190.58
For Galvanized Fittings, Add	683.50	
23 21 13 23-1683 EA 24" x 20" Concentric Reducer, Grooved.....	20,582.88	194.27
For Galvanized Fittings, Add	622.95	
<b>23 21 13 23-1684 Grooved Eccentric Reducers (23 21 13 23-1590)</b>		
Note: Victaulic No. 51		
23 21 13 23-1685 EA 1-1/2" x 3/4" Eccentric Reducer, Grooved.....	687.56	14.82
For Galvanized Fittings, Add	79.98	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)**

**23 20 HVAC Piping And Pumps**

**23 21 Hydronic Piping And Pumps**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1686	EA	1-1/2" x 1" Eccentric Reducer, Grooved .....	623.87	15.48
			<i>For Galvanized Fittings, Add</i>	72.19	
23 21	13 23-1687	EA	1-1/2" x 1-1/4" Eccentric Reducer, Grooved .....	611.85	16.23
			<i>For Galvanized Fittings, Add</i>	70.62	
23 21	13 23-1688	EA	2" x 3/4" Eccentric Reducer, Grooved.....	1,319.41	17.64
			<i>For Galvanized Fittings, Add</i>	155.41	
23 21	13 23-1689	EA	2" x 1" Eccentric Reducer, Grooved.....	690.79	18.40
			<i>For Galvanized Fittings, Add</i>	79.72	
23 21	13 23-1690	EA	2" x 1-1/4" Eccentric Reducer, Grooved .....	755.73	19.16
			<i>For Galvanized Fittings, Add</i>	87.39	
23 21	13 23-1691	EA	2" x 1-1/2" Eccentric Reducer, Grooved .....	640.60	21.32
			<i>For Galvanized Fittings, Add</i>	73.15	
23 21	13 23-1692	EA	2-1/2" x 3/4" Eccentric Reducer, Grooved .....	1,717.59	19.91
			<i>For Galvanized Fittings, Add</i>	202.87	
23 21	13 23-1693	EA	2-1/2" x 1" Eccentric Reducer, Grooved .....	1,603.29	20.67
			<i>For Galvanized Fittings, Add</i>	189.00	
23 21	13 23-1694	EA	2-1/2" x 1-1/4" Eccentric Reducer, Grooved .....	945.17	21.32
			<i>For Galvanized Fittings, Add</i>	109.76	
23 21	13 23-1695	EA	2-1/2" x 1-1/2" Eccentric Reducer, Grooved .....	758.77	23.49
			<i>For Galvanized Fittings, Add</i>	86.98	
23 21	13 23-1696	EA	2-1/2" x 2" Eccentric Reducer, Grooved .....	330.98	26.30
			<i>For Galvanized Fittings, Add</i>	35.04	
23 21	13 23-1697	EA	3" x 1" Eccentric Reducer, Grooved.....	1,722.30	23.81
			<i>For Galvanized Fittings, Add</i>	202.73	
23 21	13 23-1698	EA	3" x 1-1/4" Eccentric Reducer, Grooved .....	1,563.65	24.56
			<i>For Galvanized Fittings, Add</i>	183.53	
23 21	13 23-1699	EA	3" x 1-1/2" Eccentric Reducer, Grooved .....	876.45	26.30
			<i>For Galvanized Fittings, Add</i>	100.60	
23 21	13 23-1700	EA	3" x 2" Eccentric Reducer, Grooved.....	378.79	29.23
			<i>For Galvanized Fittings, Add</i>	40.26	
23 21	13 23-1701	EA	3" x 2-1/2" Eccentric Reducer, Grooved .....	387.18	34.84
			<i>For Galvanized Fittings, Add</i>	40.26	
23 21	13 23-1702	EA	3-1/2" x 3" Eccentric Reducer, Grooved .....	1,909.38	37.56
			<i>For Galvanized Fittings, Add</i>	222.74	
23 21	13 23-1703	EA	4" x 1" Eccentric Reducer, Grooved.....	3,463.13	29.55
			<i>For Galvanized Fittings, Add</i>	586.32	
23 21	13 23-1704	EA	4" x 1-1/2" Eccentric Reducer, Grooved .....	2,115.80	32.14
			<i>For Galvanized Fittings, Add</i>	354.60	
23 21	13 23-1705	EA	4" x 2" Eccentric Reducer, Grooved.....	462.05	35.07
			<i>For Galvanized Fittings, Add</i>	70.24	
23 21	13 23-1706	EA	4" x 2-1/2" Eccentric Reducer, Grooved .....	465.84	37.56
			<i>For Galvanized Fittings, Add</i>	70.24	
23 21	13 23-1707	EA	4" x 3" Eccentric Reducer, Grooved.....	470.17	40.47
			<i>For Galvanized Fittings, Add</i>	70.24	
23 21	13 23-1708	EA	5" x 2" Eccentric Reducer, Grooved.....	2,341.12	40.80
			<i>For Galvanized Fittings, Add</i>	391.01	
23 21	13 23-1709	EA	5" x 2-1/2" Eccentric Reducer, Grooved .....	2,007.39	43.29
			<i>For Galvanized Fittings, Add</i>	333.13	
23 21	13 23-1710	EA	5" x 3" Eccentric Reducer, Grooved.....	1,945.49	46.21
			<i>For Galvanized Fittings, Add</i>	321.77	
23 21	13 23-1711	EA	5" x 4" Eccentric Reducer, Grooved.....	635.77	51.95
			<i>For Galvanized Fittings, Add</i>	95.67	
23 21	13 23-1712	EA	6" x 1" Eccentric Reducer, Grooved.....	3,610.32	44.05
			<i>For Galvanized Fittings, Add</i>	661.37	
23 21	13 23-1713	EA	6" x 2" Eccentric Reducer, Grooved.....	3,306.39	49.46
			<i>For Galvanized Fittings, Add</i>	603.14	
23 21	13 23-1714	EA	6" x 2-1/2" Eccentric Reducer, Grooved .....	3,926.80	51.95
			<i>For Galvanized Fittings, Add</i>	718.20	
23 21	13 23-1715	EA	6" x 3" Eccentric Reducer, Grooved.....	824.96	54.87
			<i>For Galvanized Fittings, Add</i>	138.59	
23 21	13 23-1716	EA	6" x 4" Eccentric Reducer, Grooved.....	741.00	60.60
			<i>For Galvanized Fittings, Add</i>	121.31	
23 21	13 23-1717	EA	6" x 5" Eccentric Reducer, Grooved.....	879.40	66.45
			<i>For Galvanized Fittings, Add</i>	145.51	
23 21	13 23-1718	EA	8" x 3" Eccentric Reducer, Grooved.....	3,848.60	62.12
			<i>For Galvanized Fittings, Add</i>	700.78	
23 21	13 23-1719	EA	8" x 4" Eccentric Reducer, Grooved.....	3,383.83	67.86
			<i>For Galvanized Fittings, Add</i>	612.44	
23 21	13 23-1720	EA	8" x 5" Eccentric Reducer, Grooved.....	3,166.16	73.60
			<i>For Galvanized Fittings, Add</i>	570.21	
23 21	13 23-1721	EA	8" x 6" Eccentric Reducer, Grooved.....	1,441.57	82.25
			<i>For Galvanized Fittings, Add</i>	245.97	
23 21	13 23-1722	EA	10" x 4" Eccentric Reducer, Grooved.....	6,135.87	75.44
			<i>For Galvanized Fittings, Add</i>	1,123.85	
23 21	13 23-1723	EA	10" x 5" Eccentric Reducer, Grooved.....	5,796.10	81.17
			<i>For Galvanized Fittings, Add</i>	1,058.83	
23 21	13 23-1724	EA	10" x 6" Eccentric Reducer, Grooved.....	4,413.73	89.83
			<i>For Galvanized Fittings, Add</i>	798.46	
23 21	13 23-1725	EA	10" x 8" Eccentric Reducer, Grooved.....	3,767.17	97.07
			<i>For Galvanized Fittings, Add</i>	675.79	
23 21	13 23-1726	EA	12" x 4" Eccentric Reducer, Grooved.....	6,252.88	85.93
			<i>For Galvanized Fittings, Add</i>	924.13	
23 21	13 23-1727	EA	12" x 6" Eccentric Reducer, Grooved.....	5,866.76	100.32
			<i>For Galvanized Fittings, Add</i>	862.60	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1728 EA 12" x 8" Eccentric Reducer, Grooved .....	5,731.33	107.58
For Galvanized Fittings, Add	840.53	
23 21 13 23-1729 EA 12" x 10" Eccentric Reducer, Grooved .....	5,161.78	115.15
For Galvanized Fittings, Add	752.86	
23 21 13 23-1730 EA 14" x 6" Eccentric Reducer, Grooved .....	14,585.46	108.12
For Galvanized Fittings, Add	442.80	
23 21 13 23-1731 EA 14" x 8" Eccentric Reducer, Grooved .....	9,394.16	115.37
For Galvanized Fittings, Add	283.09	
23 21 13 23-1732 EA 14" x 10" Eccentric Reducer, Grooved .....	8,962.26	122.94
For Galvanized Fittings, Add	269.48	
23 21 13 23-1733 EA 14" x 12" Eccentric Reducer, Grooved .....	8,977.93	133.34
For Galvanized Fittings, Add	269.48	
23 21 13 23-1734 EA 16" x 8" Eccentric Reducer, Grooved .....	16,113.33	123.05
For Galvanized Fittings, Add	489.01	
23 21 13 23-1735 EA 16" x 10" Eccentric Reducer, Grooved .....	14,915.30	130.63
For Galvanized Fittings, Add	451.88	
23 21 13 23-1736 EA 16" x 12" Eccentric Reducer, Grooved .....	14,042.49	141.12
For Galvanized Fittings, Add	424.61	
23 21 13 23-1737 EA 16" x 14" Eccentric Reducer, Grooved .....	14,054.17	148.92
For Galvanized Fittings, Add	424.61	
23 21 13 23-1738 EA 18" x 10" Eccentric Reducer, Grooved .....	20,226.50	137.88
For Galvanized Fittings, Add	614.61	
23 21 13 23-1739 EA 18" x 12" Eccentric Reducer, Grooved .....	19,020.91	148.27
For Galvanized Fittings, Add	577.12	
23 21 13 23-1740 EA 18" x 14" Eccentric Reducer, Grooved .....	17,313.44	156.06
For Galvanized Fittings, Add	524.34	
23 21 13 23-1741 EA 18" x 16" Eccentric Reducer, Grooved .....	17,325.14	163.96
For Galvanized Fittings, Add	524.34	
23 21 13 23-1742 EA 20" x 10" Eccentric Reducer, Grooved .....	26,593.39	141.45
For Galvanized Fittings, Add	809.91	
23 21 13 23-1743 EA 20" x 12" Eccentric Reducer, Grooved .....	19,741.75	151.95
For Galvanized Fittings, Add	599.08	
23 21 13 23-1744 EA 20" x 14" Eccentric Reducer, Grooved .....	18,533.50	159.74
For Galvanized Fittings, Add	561.63	
23 21 13 23-1745 EA 20" x 16" Eccentric Reducer, Grooved .....	18,249.02	167.43
For Galvanized Fittings, Add	552.54	
23 21 13 23-1746 EA 20" x 18" Eccentric Reducer, Grooved .....	17,570.38	174.67
For Galvanized Fittings, Add	531.37	
23 21 13 23-1747 EA 24" x 12" Eccentric Reducer, Grooved .....	38,442.02	167.86
For Galvanized Fittings, Add	1,172.44	
23 21 13 23-1748 EA 24" x 14" Eccentric Reducer, Grooved .....	32,812.30	175.55
For Galvanized Fittings, Add	999.26	
23 21 13 23-1749 EA 24" x 16" Eccentric Reducer, Grooved .....	32,824.07	183.45
For Galvanized Fittings, Add	999.26	
23 21 13 23-1750 EA 24" x 18" Eccentric Reducer, Grooved .....	30,987.17	190.58
For Galvanized Fittings, Add	942.53	
23 21 13 23-1751 EA 24" x 20" Eccentric Reducer, Grooved .....	28,307.91	194.27
For Galvanized Fittings, Add	860.11	
<b>23 21 13 23-1752 Close Nipple, Grooved</b> <small>(23 21 13 23-1590)</small>		
Note: Victaulic No. 143		
23 21 13 23-1753 EA 1-1/4" Ductile Iron, Grooved, Close Nipple .....	43.25	14.28
For Galvanized Fittings, Add	3.89	
For 300 LB Rating, Add	3.24	
For Galvanized Fittings, Add	5.53	
23 21 13 23-1754 EA 1-1/2" Ductile Iron, Grooved, Close Nipple .....	50.59	17.86
For Galvanized Fittings, Add	4.24	
For 300 LB Rating, Add	3.53	
For Galvanized Fittings, Add	6.02	
23 21 13 23-1755 EA 2" Ductile Iron, Grooved, Close Nipple .....	64.08	23.57
For Galvanized Fittings, Add	5.10	
For 300 LB Rating, Add	4.25	
For Galvanized Fittings, Add	7.26	
23 21 13 23-1756 EA 2-1/2" Ductile Iron, Grooved, Close Nipple .....	76.81	28.57
For Galvanized Fittings, Add	6.03	
For 300 LB Rating, Add	5.03	
For Galvanized Fittings, Add	8.58	
<b>23 21 13 23-1757 Grooved Couplings</b> <small>(23 21 13 23-1347)</small>		
<b>23 21 13 23-1758 Flexible Grooved Coupling</b> <small>(23 21 13 23-1757)</small>		
Note: Victaulic Style 77		
23 21 13 23-1759 EA 3/4" Standard Coupling, Grooved .....	74.01	5.85
For Galvanized Fittings, Add	18.25	
23 21 13 23-1760 EA 1" Standard Coupling, Grooved .....	74.01	5.85
For Galvanized Fittings, Add	18.25	
23 21 13 23-1761 EA 1-1/4" Standard Coupling, Grooved .....	97.74	7.36
For Galvanized Fittings, Add	24.27	
23 21 13 23-1762 EA 1-1/2" Standard Coupling, Grooved .....	107.95	8.76
For Galvanized Fittings, Add	26.53	
23 21 13 23-1763 EA 2" Standard Coupling, Grooved .....	117.81	11.80
For Galvanized Fittings, Add	28.03	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1764 EA 2-1/2" Standard Coupling, Grooved .....	141.38	14.39
For Galvanized Fittings, Add .....	33.56	
23 21 13 23-1765 EA 3" Standard Coupling, Grooved .....	145.56	17.21
For Galvanized Fittings, Add .....	33.56	
23 21 13 23-1766 EA 3-1/2" Standard Coupling, Grooved .....	223.31	20.13
For Galvanized Fittings, Add .....	54.06	
23 21 13 23-1767 EA 4" Standard Coupling, Grooved .....	227.54	22.94
For Galvanized Fittings, Add .....	54.06	
23 21 13 23-1768 EA 5" Standard Coupling, Grooved .....	339.11	28.78
For Galvanized Fittings, Add .....	82.89	
23 21 13 23-1769 EA 6" Standard Coupling, Grooved .....	406.29	37.56
For Galvanized Fittings, Add .....	97.98	
23 21 13 23-1770 EA 8" Standard Coupling, Grooved .....	637.51	44.80
For Galvanized Fittings, Add .....	159.71	
23 21 13 23-1771 EA 10" Standard Coupling, Grooved .....	1,028.50	53.68
For Galvanized Fittings, Add .....	265.43	
23 21 13 23-1772 EA 12" Standard Coupling, Grooved .....	1,167.42	58.76
For Galvanized Fittings, Add .....	302.22	
23 21 13 23-1773 EA 14" Standard Coupling, Grooved .....	1,428.66	78.35
For Galvanized Fittings, Add .....	367.14	
23 21 13 23-1774 EA 16" Standard Coupling, Grooved .....	1,860.84	94.05
For Galvanized Fittings, Add .....	481.58	
23 21 13 23-1775 EA 18" Standard Coupling, Grooved .....	2,170.85	104.44
For Galvanized Fittings, Add .....	564.00	
23 21 13 23-1776 EA 20" Standard Coupling, Grooved .....	3,344.93	117.54
For Galvanized Fittings, Add .....	887.26	
23 21 13 23-1777 EA 24" Standard Coupling, Grooved .....	3,691.85	144.59
For Galvanized Fittings, Add .....	973.01	
<b>23 21 13 23-1778 Zero-Flex® Rigid Coupling (23 21 13 23-1757)</b>		
Note: Victaulic Style 07		
23 21 13 23-1779 EA 1" Rigid Coupling, Grooved .....	99.49	5.85
For Galvanized Fittings, Add .....	22.21	
23 21 13 23-1780 EA 1-1/4" Rigid Coupling, Grooved .....	101.71	7.36
For Galvanized Fittings, Add .....	22.21	
23 21 13 23-1781 EA 1-1/2" Rigid Coupling, Grooved .....	103.85	8.76
For Galvanized Fittings, Add .....	22.21	
23 21 13 23-1782 EA 2" Rigid Coupling, Grooved .....	110.65	11.80
For Galvanized Fittings, Add .....	22.78	
23 21 13 23-1783 EA 2-1/2" Rigid Coupling, Grooved .....	128.71	14.39
For Galvanized Fittings, Add .....	26.26	
23 21 13 23-1784 EA 3" Rigid Coupling, Grooved .....	132.89	17.21
For Galvanized Fittings, Add .....	26.26	
23 21 13 23-1785 EA 3-1/2" Rigid Coupling, Grooved .....	155.45	20.13
For Galvanized Fittings, Add .....	30.68	
23 21 13 23-1786 EA 4" Rigid Coupling, Grooved .....	211.92	22.94
For Galvanized Fittings, Add .....	43.48	
23 21 13 23-1787 EA 5" Rigid Coupling, Grooved .....	273.56	28.78
For Galvanized Fittings, Add .....	56.47	
23 21 13 23-1788 EA 6" Rigid Coupling, Grooved .....	364.43	37.56
For Galvanized Fittings, Add .....	75.47	
23 21 13 23-1789 EA 8" Rigid Coupling, Grooved .....	552.43	44.80
For Galvanized Fittings, Add .....	118.90	
23 21 13 23-1790 EA 10" Rigid Coupling, Grooved .....	950.15	53.68
For Galvanized Fittings, Add .....	213.06	
23 21 13 23-1791 EA 12" Rigid Coupling, Grooved .....	1,061.21	58.76
For Galvanized Fittings, Add .....	238.42	
23 21 13 23-1792 EA 14" Rigid Coupling, Grooved .....	1,388.85	78.35
For Galvanized Fittings, Add .....	311.50	
23 21 13 23-1793 EA 16" Rigid Coupling, Grooved .....	1,799.12	94.05
For Galvanized Fittings, Add .....	406.26	
23 21 13 23-1794 EA 18" Rigid Coupling, Grooved .....	2,073.48	104.44
For Galvanized Fittings, Add .....	469.64	
23 21 13 23-1795 EA 20" Rigid Coupling, Grooved .....	2,458.34	117.54
For Galvanized Fittings, Add .....	559.14	
23 21 13 23-1796 EA 24" Rigid Coupling, Grooved .....	3,578.34	144.59
For Galvanized Fittings, Add .....	823.58	
<b>23 21 13 23-1797 Large Diameter Grooved Coupling (23 21 13 23-1757)</b>		
Note: Victaulic Style 770		
23 21 13 23-1798 EA 28" Coupling, Grooved .....	4,076.82	28.78
For Galvanized Fittings, Add .....	564.72	
23 21 13 23-1799 EA 30" Coupling, Grooved .....	4,700.46	37.56
For Galvanized Fittings, Add .....	650.17	
23 21 13 23-1800 EA 32" Coupling, Grooved .....	7,021.93	44.80
For Galvanized Fittings, Add .....	973.67	
23 21 13 23-1801 EA 36" Coupling, Grooved .....	9,346.03	53.68
For Galvanized Fittings, Add .....	1,297.17	
23 21 13 23-1802 EA 42" Coupling, Grooved .....	18,826.69	58.76
For Galvanized Fittings, Add .....	2,623.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 21 13 23-1803 Flexible Coupling</b> <small>(23 21 13 23-1757)</small>		
<i>Note: Victaulic Style 75</i>		
23 21 13 23-1804 EA 1-1/2" Flexible Coupling, Grooved.....	95.59	8.76
<i>For Galvanized Fittings, Add</i>		
	21.09	
23 21 13 23-1805 EA 2" Flexible Coupling, Grooved.....	102.19	11.80
<i>For Galvanized Fittings, Add</i>		
	21.63	
23 21 13 23-1806 EA 2-1/2" Flexible Coupling, Grooved.....	119.49	14.39
<i>For Galvanized Fittings, Add</i>		
	25.08	
23 21 13 23-1807 EA 3" Flexible Coupling, Grooved.....	139.61	17.21
<i>For Galvanized Fittings, Add</i>		
	29.16	
23 21 13 23-1808 EA 3-1/2" Flexible Coupling, Grooved.....	191.56	20.13
<i>For Galvanized Fittings, Add</i>		
	41.30	
23 21 13 23-1809 EA 4" Flexible Coupling, Grooved.....	195.79	22.94
<i>For Galvanized Fittings, Add</i>		
	41.30	
23 21 13 23-1810 EA 5" Flexible Coupling, Grooved.....	275.86	28.78
<i>For Galvanized Fittings, Add</i>		
	59.59	
23 21 13 23-1811 EA 6" Flexible Coupling, Grooved.....	336.77	37.56
<i>For Galvanized Fittings, Add</i>		
	71.78	
23 21 13 23-1812 EA 8" Flexible Coupling, Grooved.....	507.88	44.80
<i>For Galvanized Fittings, Add</i>		
	112.84	
<b>23 21 13 23-1813 Installation-Ready™ Coupling</b> <small>(23 21 13 23-1757)</small>		
<i>Note: Victaulic Style 009N</i>		
23 21 13 23-1814 EA 1-1/4" Ductile Iron, Installation-Ready™ Coupling.....	46.32	5.47
<i>For Galvanized Fittings, Add</i>		
	9.74	
23 21 13 23-1815 EA 1-1/2" Ductile Iron, Installation-Ready™ Coupling.....	48.73	6.53
<i>For Galvanized Fittings, Add</i>		
	9.94	
23 21 13 23-1816 EA 2" Ductile Iron, Installation-Ready™ Coupling.....	57.24	8.78
<i>For Galvanized Fittings, Add</i>		
	11.24	
23 21 13 23-1817 EA 2-1/2" Ductile Iron, Installation-Ready™ Coupling.....	66.72	10.64
<i>For Galvanized Fittings, Add</i>		
	12.95	
23 21 13 23-1818 EA 3" Ductile Iron, Installation-Ready™ Coupling.....	76.63	12.78
<i>For Galvanized Fittings, Add</i>		
	14.66	
23 21 13 23-1819 EA 4" Ductile Iron, Installation-Ready™ Coupling.....	106.27	17.08
<i>For Galvanized Fittings, Add</i>		
	20.58	
23 21 13 23-1820 EA 5" Ductile Iron, Installation-Ready™ Coupling.....	163.87	21.36
<i>For Galvanized Fittings, Add</i>		
	33.67	
23 21 13 23-1821 EA 6" Ductile Iron, Installation-Ready™ Coupling.....	199.44	27.93
<i>For Galvanized Fittings, Add</i>		
	40.23	
23 21 13 23-1822 EA 8" Ductile Iron, Installation-Ready™ Coupling.....	312.85	33.22
<i>For Galvanized Fittings, Add</i>		
	67.21	
<b>23 21 13 23-1823 Grooved Strainers And Suction Diffusers</b> <small>(23 21 13 23-1347)</small>		
<b>23 21 13 23-1824 Grooved Wye Strainers</b> <small>(23 21 13 23-1823)</small>		
<i>Note: Victaulic Style 732</i>		
23 21 13 23-1825 EA 2" Wye Strainer, Grooved.....	1,047.44	23.81
23 21 13 23-1826 EA 2-1/2" Wye Strainer, Grooved.....	1,106.18	28.89
23 21 13 23-1827 EA 3" Wye Strainer, Grooved.....	1,246.25	34.63
23 21 13 23-1828 EA 4" Wye Strainer, Grooved.....	1,420.49	46.21
23 21 13 23-1829 EA 5" Wye Strainer, Grooved.....	2,044.01	57.79
23 21 13 23-1830 EA 6" Wye Strainer, Grooved.....	2,238.21	75.11
23 21 13 23-1831 EA 8" Wye Strainer, Grooved.....	3,392.66	89.51
23 21 13 23-1832 EA 10" Wye Strainer, Grooved.....	5,394.69	104.65
23 21 13 23-1833 EA 12" Wye Strainer, Grooved.....	9,338.45	125.65
<b>23 21 13 23-1834 Grooved Tee Type Strainers</b> <small>(23 21 13 23-1823)</small>		
<i>Note: Victaulic Style 730</i>		
23 21 13 23-1835 EA 1-1/2" Tee Type Strainer, Grooved.....	807.79	18.07
23 21 13 23-1836 EA 2" Tee Type Strainer, Grooved.....	1,034.95	23.81
23 21 13 23-1837 EA 2-1/2" Tee Type Strainer, Grooved.....	1,093.20	28.89
23 21 13 23-1838 EA 3" Tee Type Strainer, Grooved.....	1,231.58	34.63
23 21 13 23-1839 EA 4" Tee Type Strainer, Grooved.....	1,403.86	46.21
23 21 13 23-1840 EA 5" Tee Type Strainer, Grooved.....	2,019.80	57.79
23 21 13 23-1841 EA 6" Tee Type Strainer, Grooved.....	2,212.10	75.11
23 21 13 23-1842 EA 8" Tee Type Strainer, Grooved.....	3,352.25	89.51
23 21 13 23-1843 EA 10" Tee Type Strainer, Grooved.....	4,883.15	104.65
23 21 13 23-1844 EA 12" Tee Type Strainer, Grooved.....	6,272.27	125.65
23 21 13 23-1845 EA 14" Tee Type Strainer, Grooved.....	21,899.01	141.45
23 21 13 23-1846 EA 16" Tee Type Strainer, Grooved.....	27,188.40	156.60
23 21 13 23-1847 EA 18" Tee Type Strainer, Grooved.....	35,708.25	171.10
<b>23 21 13 23-1848 Grooved Suction Diffuser</b> <small>(23 21 13 23-1823)</small>		
<i>Note: Victaulic Style 731</i>		
23 21 13 23-1849 EA 2-1/2" Grooved x 2" Flanged Suction Diffuser.....	2,115.01	26.73
23 21 13 23-1850 EA 3" Grooved x 2" Flanged Suction Diffuser.....	2,246.35	29.55
23 21 13 23-1851 EA 3" Grooved x 2-1/2" Flanged Suction Diffuser.....	1,635.27	34.63
23 21 13 23-1852 EA 3" Grooved x 3" Flanged Suction Diffuser.....	1,660.38	37.56

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1853	EA	4" Grooved x 2-1/2" Flanged Suction Diffuser.....	1,795.75	37.56
23 21	13 23-1854	EA	4" Grooved x 3" Flanged Suction Diffuser.....	1,937.33	40.47
23 21	13 23-1855	EA	4" Grooved x 4" Flanged Suction Diffuser.....	2,234.49	40.47
23 21	13 23-1856	EA	5" Grooved x 4" Flanged Suction Diffuser.....	2,500.65	51.95
23 21	13 23-1857	EA	5" Grooved x 5" Flanged Suction Diffuser.....	2,627.92	54.87
23 21	13 23-1858	EA	6" Grooved x 4" Flanged Suction Diffuser.....	2,674.04	60.60
23 21	13 23-1859	EA	6" Grooved x 5" Flanged Suction Diffuser.....	3,189.62	66.45
23 21	13 23-1860	EA	6" Grooved x 6" Flanged Suction Diffuser.....	3,314.48	70.78
23 21	13 23-1861	EA	8" Grooved x 5" Flanged Suction Diffuser.....	3,401.82	73.60
23 21	13 23-1862	EA	8" Grooved x 6" Flanged Suction Diffuser.....	3,594.17	82.25
23 21	13 23-1863	EA	8" Grooved x 8" Flanged Suction Diffuser.....	6,107.00	89.51
23 21	13 23-1864	EA	10" Grooved x 8" Flanged Suction Diffuser.....	6,885.11	96.75
23 21	13 23-1865	EA	10" Grooved x 10" Flanged Suction Diffuser.....	8,271.62	100.32
23 21	13 23-1866	EA	12" Grooved x 10" Flanged Suction Diffuser.....	9,785.65	115.48
23 21	13 23-1867	EA	12" Grooved x 12" Flanged Suction Diffuser.....	13,555.06	122.73
23 21	13 23-1868	EA	14" Grooved x 10" Flanged Suction Diffuser.....	12,628.34	122.73
23 21	13 23-1869	EA	14" Grooved x 12" Flanged Suction Diffuser.....	14,100.83	133.55
23 21	13 23-1870	EA	14" Grooved x 14" Flanged Suction Diffuser.....	17,092.34	141.45
23 21	13 23-1871	EA	16" Grooved x 14" Flanged Suction Diffuser.....	17,599.64	148.70
<b>23 21</b>	<b>13 23-1872</b>		<b>Grooved Steel Valves (23 21 13 23-1347)</b>		
<b>23 21</b>	<b>13 23-1873</b>		<b>Grooved Butterfly Valves With Standard Trim (23 21 13 23-1872)</b>		
23 21	13 23-1874	EA	1-1/2" Butterfly Valve, Grooved, With Standard Trim.....	252.14	11.80
23 21	13 23-1875	EA	2" Butterfly Valve, Grooved, With Standard Trim.....	257.72	15.48
23 21	13 23-1876	EA	3" Butterfly Valve, Grooved, With Standard Trim.....	422.42	22.94
23 21	13 23-1877	EA	4" Butterfly Valve, Grooved, With Standard Trim.....	567.28	30.19
23 21	13 23-1878	EA	6" Butterfly Valve, Grooved, With Standard Trim.....	1,235.26	49.46
23 21	13 23-1879	EA	8" Butterfly Valve, Grooved, With Standard Trim.....	1,712.04	69.59
23 21	13 23-1880	EA	10" Butterfly Valve, Grooved, With Standard Trim.....	2,569.15	94.05
<b>23 21</b>	<b>13 23-1881</b>		<b>Grooved Butterfly Valves With Stainless Steel Trim (23 21 13 23-1872)</b>		
23 21	13 23-1882	EA	1-1/2" Butterfly Valve, Grooved, With Stainless Steel Trim.....	377.74	11.80
23 21	13 23-1883	EA	2" Butterfly Valve, Grooved, With Stainless Steel Trim.....	383.32	15.48
23 21	13 23-1884	EA	3" Butterfly Valve, Grooved, With Stainless Steel Trim.....	592.67	22.94
23 21	13 23-1885	EA	4" Butterfly Valve, Grooved, With Stainless Steel Trim.....	754.28	30.19
23 21	13 23-1886	EA	6" Butterfly Valve, Grooved, With Stainless Steel Trim.....	1,441.80	49.46
23 21	13 23-1887	EA	8" Butterfly Valve, Grooved, With Stainless Steel Trim.....	2,393.06	69.59
23 21	13 23-1888	EA	10" Butterfly Valve, Grooved, With Stainless Steel Trim.....	3,769.32	94.05
<b>23 21</b>	<b>13 23-1889</b>		<b>Grooved Ball Valves With Standard Trim And Handle (23 21 13 23-1872)</b>		
			Note: Victaulic No. 721		
23 21	13 23-1890	EA	1-1/2" Ball Valve, Grooved, With Standard Trim.....	213.10	11.58
23 21	13 23-1891	EA	2" Ball Valve, Grooved, With Standard Trim.....	244.49	15.91
23 21	13 23-1892	EA	2-1/2" Ball Valve, Grooved, With Standard Trim.....	555.14	19.48
23 21	13 23-1893	EA	3" Ball Valve, Grooved, With Standard Trim.....	908.66	23.06
23 21	13 23-1894	EA	4" Ball Valve, Grooved, With Standard Trim.....	1,413.99	30.30
23 21	13 23-1895	EA	6" Ball Valve, Grooved, With Standard Trim.....	4,388.12	49.79
<b>23 21</b>	<b>13 23-1896</b>		<b>Grooved Ball Valves With Stainless Steel Trim And Handle (23 21 13 23-1872)</b>		
			Note: Victaulic No. 721		
23 21	13 23-1897	EA	1-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	226.85	11.58
23 21	13 23-1898	EA	2" Ball Valve, Grooved, With Stainless Steel Trim.....	387.29	15.91
23 21	13 23-1899	EA	2-1/2" Ball Valve, Grooved, With Stainless Steel Trim.....	1,005.40	19.48
23 21	13 23-1900	EA	3" Ball Valve, Grooved, With Stainless Steel Trim.....	1,299.73	23.06
23 21	13 23-1901	EA	4" Ball Valve, Grooved, With Stainless Steel Trim.....	1,775.38	30.30
23 21	13 23-1902	EA	6" Ball Valve, Grooved, With Stainless Steel Trim.....	4,835.93	49.79
<b>23 21</b>	<b>13 23-1903</b>		<b>Grooved Check Valves (23 21 13 23-1872)</b>		
			Note: Victaulic No. 712		
23 21	13 23-1904	EA	2" Check Valve, Grooved.....	323.11	15.91
23 21	13 23-1905	EA	2-1/2" Check Valve, Grooved.....	523.40	19.48
23 21	13 23-1906	EA	3" Check Valve, Grooved.....	609.89	23.06
23 21	13 23-1907	EA	4" Check Valve, Grooved.....	864.06	30.30
<b>23 21</b>	<b>13 23-1908</b>		<b>Grooved Vic-Check Check Valves (23 21 13 23-1872)</b>		
			Note: Victaulic No. 716		
23 21	13 23-1909	EA	2-1/2" "Vic-Check" Check Valve, Grooved.....	418.97	19.48
23 21	13 23-1910	EA	3" "Vic-Check" Check Valve, Grooved.....	424.22	23.06
23 21	13 23-1911	EA	4" "Vic-Check" Check Valve, Grooved.....	531.91	30.30
23 21	13 23-1912	EA	6" "Vic-Check" Check Valve, Grooved.....	1,035.17	49.79
23 21	13 23-1913	EA	8" "Vic-Check" Check Valve, Grooved.....	1,416.65	69.27
23 21	13 23-1914	EA	10" "Vic-Check" Check Valve, Grooved.....	3,940.75	93.83
23 21	13 23-1915	EA	12" "Vic-Check" Check Valve, Grooved.....	4,666.04	108.33



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-	1916	<b>Grooved Plug Valves With Lever Operator</b> <small>(23 21 13 23-1872)</small>		
Note: Victaulic No. 377					
23 21	13 23-	1917	EA 3" Balancing Plug Valve, Grooved, With Lever Handle.....	396.38	23.06
23 21	13 23-	1918	EA 4" Balancing Plug Valve, Grooved, With Lever Handle.....	443.60	30.30
23 21	13 23-	1919	EA 6" Balancing Plug Valve, Grooved, With Lever Handle.....	788.46	49.79
23 21	13 23-	1920	<b>Grooved Plug Valve With Gear Operator</b> <small>(23 21 13 23-1872)</small>		
Note: Victaulic No. 377					
23 21	13 23-	1921	EA 3" Balancing Plug Valve, Grooved, With Gear Operator.....	688.26	23.06
23 21	13 23-	1922	EA 4" Balancing Plug Valve, Grooved, With Gear Operator.....	735.52	30.30
23 21	13 23-	1923	EA 6" Balancing Plug Valve, Grooved, With Gear Operator.....	1,080.37	49.79
23 21	13 23-	1924	EA 8" Balancing Plug Valve, Grooved, With Gear Operator.....	1,447.25	69.27
23 21	13 23-	1925	EA 10" Balancing Plug Valve, Grooved, With Gear Operator.....	2,259.33	93.83
23 21	13 23-	1926	EA 12" Balancing Plug Valve, Grooved, With Gear Operator.....	3,248.58	108.33
23 21	13 23-	1927	<b>Prepare Pipe For Groove</b> <small>(23 21 13 23-1347)</small>		
23 21	13 23-	1928	<b>Cut Grooved Pipe</b> <small>(23 21 13 23-1927)</small>		
Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.					
23 21	13 23-	1929	EA Cut 3/4" Groove.....	11.34	
23 21	13 23-	1930	EA Cut 1" Groove.....	12.31	
23 21	13 23-	1931	EA Cut 1-1/4" Groove.....	13.90	
23 21	13 23-	1932	EA Cut 1-1/2" Groove.....	15.12	
23 21	13 23-	1933	EA Cut 2" Groove.....	16.57	
23 21	13 23-	1934	EA Cut 2-1/2" Groove.....	17.95	
23 21	13 23-	1935	EA Cut 3" Groove.....	19.59	
23 21	13 23-	1936	EA Cut 3-1/2" Groove.....	20.76	
23 21	13 23-	1937	EA Cut 4" Groove.....	22.09	
23 21	13 23-	1938	EA Cut 5" Groove.....	23.94	
23 21	13 23-	1939	EA Cut 6" Groove.....	24.62	
23 21	13 23-	1940	EA Cut 8" Groove.....	31.91	
23 21	13 23-	1941	EA Cut 10" Groove.....	45.35	
23 21	13 23-	1942	EA Cut 12" Groove.....	57.45	
23 21	13 23-	1943	EA Cut 14" Groove.....	86.17	
23 21	13 23-	1944	EA Cut 16" Groove.....	90.70	
23 21	13 23-	1945	EA Cut 18" Groove.....	95.74	
23 21	13 23-	1946	EA Cut 20" Groove.....	101.38	
23 21	13 23-	1947	EA Cut 24" Groove.....	114.89	
23 21	13 23-	1948	<b>Roll Grooved Pipe</b> <small>(23 21 13 23-1927)</small>		
Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.					
23 21	13 23-	1949	EA Roll 3/4" Groove.....	6.48	
23 21	13 23-	1950	EA Roll 1" Groove.....	7.56	
23 21	13 23-	1951	EA Roll 1-1/4" Groove.....	8.61	
23 21	13 23-	1952	EA Roll 1-1/2" Groove.....	9.68	
23 21	13 23-	1953	EA Roll 2" Groove.....	14.85	
23 21	13 23-	1954	EA Roll 2-1/2" Groove.....	15.67	
23 21	13 23-	1955	EA Roll 3" Groove.....	17.24	
23 21	13 23-	1956	EA Roll 3-1/2" Groove.....	18.33	
23 21	13 23-	1957	EA Roll 4" Groove.....	20.04	
23 21	13 23-	1958	EA Roll 5" Groove.....	20.51	
23 21	13 23-	1959	EA Roll 6" Groove.....	21.54	
23 21	13 23-	1960	EA Roll 8" Groove.....	26.11	
23 21	13 23-	1961	EA Roll 10" Groove.....	29.71	
23 21	13 23-	1962	EA Roll 12" Groove.....	37.47	
23 21	13 23-	1963	EA Roll 14" Groove.....	57.45	
23 21	13 23-	1964	EA Roll 16" Groove.....	61.55	
23 21	13 23-	1965	EA Roll 18" Groove.....	63.83	
23 21	13 23-	1966	EA Roll 20" Groove.....	68.93	
23 21	13 23-	1967	EA Roll 24" Groove.....	74.92	
23 21	13 23-	1968	<b>Standard Gaskets</b> <small>(23 21 13 23-1927)</small>		
Note: For use on replacement of existing gaskets.					
23 21	13 23-	1969	EA 3/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	51.52	
23 21	13 23-	1970	EA 1" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	52.42	
23 21	13 23-	1971	EA 1-1/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	54.36	
23 21	13 23-	1972	EA 1-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	59.34	
23 21	13 23-	1973	EA 2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	60.00	
23 21	13 23-	1974	EA 2-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	71.67	
23 21	13 23-	1975	EA 3" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	78.23	
23 21	13 23-	1976	EA 3-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	98.18	
23 21	13 23-	1977	EA 4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	98.70	
23 21	13 23-	1978	EA 5" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	126.17	
23 21	13 23-	1979	EA 6" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	136.04	
23 21	13 23-	1980	EA 8" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T".....	186.43	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1981 EA 10" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	236.73	
23 21 13 23-1982 EA 12" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	276.89	
23 21 13 23-1983 EA 14" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	384.52	
23 21 13 23-1984 EA 16" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	524.03	
23 21 13 23-1985 EA 18" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	627.60	
23 21 13 23-1986 EA 20" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	950.43	
23 21 13 23-1987 EA 24" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T" .....	1,312.64	
<b>23 21 13 23-1988 Copper Grooved-Joint Pipe Fittings (23 21 13 23)</b> Note: Couplings are not included with fittings.		
<b>23 21 13 23-1989 Grooved Fittings (23 21 13 23-1988)</b>		
<b>23 21 13 23-1990 Grooved 90 Degree Elbows (23 21 13 23-1989)</b>		
23 21 13 23-1991 EA 2" Copper 90 Degree Elbow, Grooved.....	62.88	17.64
23 21 13 23-1992 EA 2-1/2" Copper 90 Degree Elbow, Grooved.....	72.86	21.54
23 21 13 23-1993 EA 3" Copper 90 Degree Elbow, Grooved.....	93.92	26.08
23 21 13 23-1994 EA 4" Copper 90 Degree Elbow, Grooved.....	164.65	34.41
23 21 13 23-1995 EA 5" Copper 90 Degree Elbow, Grooved.....	357.48	43.08
23 21 13 23-1996 EA 6" Copper 90 Degree Elbow, Grooved.....	545.71	56.38
23 21 13 23-1997 EA 8" Copper 90 Degree Elbow, Grooved.....	947.03	67.10
<b>23 21 13 23-1998 Grooved 45 Degree Elbows (23 21 13 23-1989)</b>		
23 21 13 23-1999 EA 2" Copper 45 Degree Elbow, Grooved.....	62.88	17.64
23 21 13 23-2000 EA 2-1/2" Copper 45 Degree Elbow, Grooved.....	72.86	21.54
23 21 13 23-2001 EA 3" Copper 45 Degree Elbow, Grooved.....	93.92	26.08
23 21 13 23-2002 EA 4" Copper 45 Degree Elbow, Grooved.....	164.65	34.41
23 21 13 23-2003 EA 5" Copper 45 Degree Elbow, Grooved.....	357.48	43.08
23 21 13 23-2004 EA 6" Copper 45 Degree Elbow, Grooved.....	545.71	56.38
23 21 13 23-2005 EA 8" Copper 45 Degree Elbow, Grooved.....	947.03	67.10
<b>23 21 13 23-2006 Grooved Tees (23 21 13 23-1989)</b>		
23 21 13 23-2007 EA 2" Copper Tee, Grooved.....	97.11	25.97
23 21 13 23-2008 EA 2-1/2" Copper Tee, Grooved.....	111.69	31.93
23 21 13 23-2009 EA 3" Copper Tee, Grooved.....	149.55	39.18
23 21 13 23-2010 EA 4" Copper Tee, Grooved.....	257.51	50.65
23 21 13 23-2011 EA 5" Copper Tee, Grooved.....	819.62	66.23
23 21 13 23-2012 EA 6" Copper Tee, Grooved.....	705.54	82.90
23 21 13 23-2013 EA 8" Copper Tee, Grooved.....	1,165.12	100.65
<b>23 21 13 23-2014 Grooved Reducing Tees (23 21 13 23-1989)</b>		
23 21 13 23-2015 EA 2-1/2" Copper Tee, Reducing, Grooved.....	135.17	31.93
23 21 13 23-2016 EA 3" Copper Tee, Reducing, Grooved.....	199.42	39.18
23 21 13 23-2017 EA 4" Copper Tee, Reducing, Grooved.....	306.50	50.75
23 21 13 23-2018 EA 5" Copper Tee, Reducing, Grooved.....	758.60	66.34
23 21 13 23-2019 EA 6" Copper Tee, Reducing, Grooved.....	930.13	82.90
<b>23 21 13 23-2020 Grooved X Cup Reducing Tees (23 21 13 23-1989)</b>		
23 21 13 23-2021 EA 2" Copper Tee, Reducing, Grooved X Cup.....	109.67	25.97
23 21 13 23-2022 EA 2-1/2" Copper Tee, Reducing, Grooved X Cup.....	135.43	31.93
23 21 13 23-2023 EA 3" Copper Tee, Reducing, Grooved X Cup.....	210.72	39.18
23 21 13 23-2024 EA 4" Copper Tee, Reducing, Grooved X Cup.....	306.50	50.65
<b>23 21 13 23-2025 Grooved Flanged Adapter Nipples (23 21 13 23-1989)</b>		
23 21 13 23-2026 EA 2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	157.12	19.16
23 21 13 23-2027 EA 2-1/2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	170.15	23.27
23 21 13 23-2028 EA 3" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	185.06	27.82
23 21 13 23-2029 EA 4" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	216.85	37.45
23 21 13 23-2030 EA 5" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	281.49	45.35
23 21 13 23-2031 EA 6" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 .....	330.15	61.26
<b>23 21 13 23-2032 Grooved Concentric Reducers (23 21 13 23-1989)</b>		
23 21 13 23-2033 EA 2-1/2" x 2" Copper Concentric Reducer, Grooved .....	78.94	19.70
23 21 13 23-2034 EA 3" x 2" Copper Concentric Reducer, Grooved.....	83.27	21.97
23 21 13 23-2035 EA 3" x 2-1/2" Copper Concentric Reducer, Grooved .....	91.66	26.08
23 21 13 23-2036 EA 4" x 2" Copper Concentric Reducer, Grooved.....	133.14	26.30
23 21 13 23-2037 EA 4" x 2-1/2" Copper Concentric Reducer, Grooved .....	136.93	28.14
23 21 13 23-2038 EA 4" x 3" Copper Concentric Reducer, Grooved.....	141.26	30.30
23 21 13 23-2039 EA 5" x 3" Copper Concentric Reducer, Grooved.....	296.12	34.63
23 21 13 23-2040 EA 5" x 4" Copper Concentric Reducer, Grooved.....	304.78	38.96
23 21 13 23-2041 EA 6" x 3" Copper Concentric Reducer, Grooved.....	327.83	41.13
23 21 13 23-2042 EA 6" x 4" Copper Concentric Reducer, Grooved.....	336.48	45.46
23 21 13 23-2043 EA 6" x 5" Copper Concentric Reducer, Grooved.....	345.15	49.79



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2044 EA 8" x 6" Copper Concentric Reducer, Grooved .....	554.35	61.69
<b>23 21 13 23-2045 Grooved X Cup Concentric Reducers</b> <small>(23 21 13 23-1989)</small>		
23 21 13 23-2046 EA 2" x 1" Copper Concentric Reducer, Grooved X Cup .....	60.26	13.85
23 21 13 23-2047 EA 2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup .....	61.34	14.39
23 21 13 23-2048 EA 2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup .....	64.65	16.02
23 21 13 23-2049 EA 2-1/2" x 1" Copper Concentric Reducer, Grooved X Cup .....	70.87	15.48
23 21 13 23-2050 EA 2-1/2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup .....	71.94	16.02
23 21 13 23-2051 EA 2-1/2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup .....	75.12	17.64
23 21 13 23-2052 EA 2-1/2" x 2" Copper Concentric Reducer, Grooved X Cup .....	79.45	19.70
23 21 13 23-2053 EA 3" x 1-1/2" Copper Concentric Reducer, Grooved X Cup .....	89.11	19.70
23 21 13 23-2054 EA 3" x 2" Copper Concentric Reducer, Grooved X Cup .....	93.44	21.97
23 21 13 23-2055 EA 4" x 2" Copper Concentric Reducer, Grooved X Cup .....	144.57	26.19
<b>23 21 13 23-2056 Grooved Standard Couplings</b> <small>(23 21 13 23-1989)</small>		
23 21 13 23-2057 EA 2" Copper Standard Coupling, Grooved .....	27.17	8.87
23 21 13 23-2058 EA 2-1/2" Copper Standard Coupling, Grooved .....	32.41	10.82
23 21 13 23-2059 EA 3" Copper Standard Coupling, Grooved .....	37.69	12.87
23 21 13 23-2060 EA 4" Copper Standard Coupling, Grooved .....	52.77	17.32
23 21 13 23-2061 EA 5" Copper Standard Coupling, Grooved .....	74.24	21.54
23 21 13 23-2062 EA 6" Copper Standard Coupling, Grooved .....	97.52	28.14
23 21 13 23-2063 EA 8" Copper Standard Coupling, Grooved .....	131.17	33.55
<b>23 21 13 23-2064 Grooved Caps</b> <small>(23 21 13 23-1989)</small>		
23 21 13 23-2065 EA 2" Copper Cap, Grooved .....	36.65	8.87
23 21 13 23-2066 EA 2-1/2" Copper Cap, Grooved .....	49.68	10.82
23 21 13 23-2067 EA 3" Copper Cap, Grooved .....	60.64	12.87
23 21 13 23-2068 EA 4" Copper Cap, Grooved .....	86.84	17.21
23 21 13 23-2069 EA 5" Copper Cap, Grooved .....	135.96	21.54
23 21 13 23-2070 EA 6" Copper Cap, Grooved .....	163.26	28.14
<b>23 21 13 23-2071 Grooved Valves</b> <small>(23 21 13 23-1988)</small>		
<b>23 21 13 23-2072 Grooved Butterfly Valves, Standard Trim, Without Operator</b> <small>(23 21 13 23-2071)</small>		
Note: Copper body.		
23 21 13 23-2073 EA 2" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body .....	415.59	11.58
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2074 EA 3" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body .....	473.88	17.21
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2075 EA 4" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body .....	626.39	22.62
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2076 EA 6" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body .....	837.91	37.13
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2077 EA 8" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body .....	927.10	52.16
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
<b>23 21 13 23-2078 Grooved Butterfly Valves, Standard Trim, With Operator</b> <small>(23 21 13 23-2071)</small>		
Note: Copper body.		
23 21 13 23-2079 EA 2" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....	506.93	11.58
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2080 EA 3" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....	565.29	17.21
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2081 EA 4" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....	717.80	22.62
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2082 EA 6" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....	929.37	37.13
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2083 EA 8" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body .....	1,018.51	52.16
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
<b>23 21 13 23-2084 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings</b> <small>(23 21 13 23)</small>		
Note: Socket or back weld.		
<b>23 21 13 23-2085 Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings</b> <small>(23 21 13 23-2084)</small>		
Note: ASTM D1785 with D2466 fittings.		
<b>23 21 13 23-2086 Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe</b> <small>(23 21 13 23-2085)</small>		

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2087 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	4.97	3.10
<i>For Work In Restricted Working Space, Add</i>	1.39	
23 21 13 23-2088 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	6.23	3.86
<i>For Work In Restricted Working Space, Add</i>	1.74	
23 21 13 23-2089 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	6.80	4.12
<i>For Work In Restricted Working Space, Add</i>	1.85	
23 21 13 23-2090 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	7.47	4.44
<i>For Work In Restricted Working Space, Add</i>	2.00	
23 21 13 23-2091 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	7.69	4.51
<i>For Work In Restricted Working Space, Add</i>	2.03	
23 21 13 23-2092 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	9.37	5.40
<i>For Work In Restricted Working Space, Add</i>	2.43	
23 21 13 23-2093 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	11.62	6.42
<i>For Work In Restricted Working Space, Add</i>	2.89	
23 21 13 23-2094 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	14.23	7.76
<i>For Work In Restricted Working Space, Add</i>	3.49	
23 21 13 23-2095 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	21.19	11.64
<i>For Work In Restricted Working Space, Add</i>	5.24	
23 21 13 23-2096 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	29.79	15.52
<i>For Work In Restricted Working Space, Add</i>	6.98	
23 21 13 23-2097 LF 8" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	37.64	18.49
<i>For Work In Restricted Working Space, Add</i>	8.33	
23 21 13 23-2098 LF 10" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe .....	61.24	20.66
<i>For Work In Restricted Working Space, Add</i>	9.29	
<b>23 21 13 23-2099 Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows</b> <small>(23 21 13 23-2085)</small>		
23 21 13 23-2100 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	17.74	11.69
<i>For Work In Restricted Working Space, Add</i>	5.24	
23 21 13 23-2101 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	23.67	15.48
<i>For Work In Restricted Working Space, Add</i>	6.98	
23 21 13 23-2102 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	29.55	19.27
<i>For Work In Restricted Working Space, Add</i>	8.66	
23 21 13 23-2103 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	42.11	27.28
<i>For Work In Restricted Working Space, Add</i>	12.25	
23 21 13 23-2104 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	47.40	30.73
<i>For Work In Restricted Working Space, Add</i>	13.82	
23 21 13 23-2105 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	60.62	39.07
<i>For Work In Restricted Working Space, Add</i>	17.55	
23 21 13 23-2106 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	93.03	57.79
<i>For Work In Restricted Working Space, Add</i>	25.97	
23 21 13 23-2107 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	121.67	75.98
<i>For Work In Restricted Working Space, Add</i>	34.18	
23 21 13 23-2108 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	149.13	90.26
<i>For Work In Restricted Working Space, Add</i>	40.59	
23 21 13 23-2109 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	187.76	103.14
<i>For Work In Restricted Working Space, Add</i>	46.38	
23 21 13 23-2110 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	265.73	120.35
<i>For Work In Restricted Working Space, Add</i>	54.11	
23 21 13 23-2111 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows .....	396.86	179.44
<i>For Work In Restricted Working Space, Add</i>	80.69	
<b>23 21 13 23-2112 Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows</b> <small>(23 21 13 23-2085)</small>		
23 21 13 23-2113 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....	17.87	11.69
<i>For Work In Restricted Working Space, Add</i>	5.24	
23 21 13 23-2114 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....	23.94	15.48
<i>For Work In Restricted Working Space, Add</i>	6.98	
23 21 13 23-2115 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....	29.94	19.27
<i>For Work In Restricted Working Space, Add</i>	8.66	
23 21 13 23-2116 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....	42.36	27.28
<i>For Work In Restricted Working Space, Add</i>	12.25	
23 21 13 23-2117 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....	47.95	30.73
<i>For Work In Restricted Working Space, Add</i>	13.82	
23 21 13 23-2118 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....	60.98	39.07
<i>For Work In Restricted Working Space, Add</i>	17.55	
23 21 13 23-2119 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....	93.03	57.79
<i>For Work In Restricted Working Space, Add</i>	25.97	
23 21 13 23-2120 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....	123.99	75.98
<i>For Work In Restricted Working Space, Add</i>	34.18	
23 21 13 23-2121 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....	153.35	90.26
<i>For Work In Restricted Working Space, Add</i>	40.59	
23 21 13 23-2122 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....	188.15	103.14
<i>For Work In Restricted Working Space, Add</i>	46.38	
23 21 13 23-2123 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....	261.07	120.35
<i>For Work In Restricted Working Space, Add</i>	54.11	
23 21 13 23-2124 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows .....	396.86	179.44
<i>For Work In Restricted Working Space, Add</i>	80.69	
<b>23 21 13 23-2125 Schedule 40 Polyvinyl Chloride (PVC) Tees</b> <small>(23 21 13 23-2085)</small>		
23 21 13 23-2126 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees.....	29.19	19.27
<i>For Work In Restricted Working Space, Add</i>	8.66	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2127 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	35.27 10.47	23.27
23 21 13 23-2128 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	46.74 13.82	30.73
23 21 13 23-2129 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	59.60 17.55	39.07
23 21 13 23-2130 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	71.17 20.95	46.53
23 21 13 23-2131 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	88.54 25.97	57.79
23 21 13 23-2132 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	120.43 34.18	75.98
23 21 13 23-2133 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	143.81 40.59	90.26
23 21 13 23-2134 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	195.82 54.11	120.35
23 21 13 23-2135 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	284.81 69.82	155.19
23 21 13 23-2136 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	409.39 86.58	192.53
23 21 13 23-2137 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	903.97 129.39	287.67
<b>23 21 13 23-2138 Schedule 40 Polyvinyl Chloride (PVC) Crosses <small>(23 21 13 23-2085)</small></b>		
23 21 13 23-2139 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	36.60 10.82	24.03
23 21 13 23-2140 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	44.20 13.09	29.12
23 21 13 23-2141 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	58.65 17.27	38.42
23 21 13 23-2142 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	74.86 21.94	48.81
23 21 13 23-2143 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	89.40 26.18	58.22
23 21 13 23-2144 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	111.30 32.47	72.19
23 21 13 23-2145 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	152.60 42.72	95.02
23 21 13 23-2146 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	182.46 50.73	112.77
23 21 13 23-2147 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	249.68 67.64	150.43
23 21 13 23-2148 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	372.42 87.24	193.94
23 21 13 23-2149 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	549.91 108.17	240.48
23 21 13 23-2150 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	1,280.34 161.82	359.75
<b>23 21 13 23-2151 Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <small>(23 21 13 23-2085)</small></b>		
23 21 13 23-2152 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	23.53 6.98	15.48
23 21 13 23-2153 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	29.38 8.66	19.27
23 21 13 23-2154 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	41.53 12.25	27.28
23 21 13 23-2155 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	46.77 13.82	30.73
23 21 13 23-2156 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	59.71 17.55	39.07
23 21 13 23-2157 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	88.51 25.97	57.79
23 21 13 23-2158 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	116.82 34.18	75.98
23 21 13 23-2159 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	141.82 40.59	90.26
23 21 13 23-2160 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	170.85 46.38	103.14
23 21 13 23-2161 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	273.77 54.11	120.35
23 21 13 23-2162 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	313.23 62.87	139.72
<b>23 21 13 23-2163 Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <small>(23 21 13 23-2085)</small></b>		
23 21 13 23-2164 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	18.04 5.24	11.69
23 21 13 23-2165 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	23.86 6.98	15.48
23 21 13 23-2166 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	29.58 8.66	19.27

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2167	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	41.94 12.25	27.28
23 21	13 23-2168	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	47.32 13.82	30.73
23 21	13 23-2169	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	60.24 17.55	39.07
23 21	13 23-2170	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	89.09 25.97	57.79
23 21	13 23-2171	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	116.82 34.18	75.98
23 21	13 23-2172	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <i>For Work In Restricted Working Space, Add</i>	141.82 40.59	90.26
<b>23 21</b>	<b>13 23-2173</b>		<b>Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters</b> <small>(23 21 13 23-2085)</small>		
23 21	13 23-2174	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	18.23 5.24	11.69
23 21	13 23-2175	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	24.05 6.98	15.48
23 21	13 23-2176	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	29.96 8.66	19.27
23 21	13 23-2177	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	42.16 12.25	27.28
23 21	13 23-2178	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	47.82 13.82	30.73
23 21	13 23-2179	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	60.68 17.55	39.07
23 21	13 23-2180	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	89.59 25.97	57.79
23 21	13 23-2181	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	118.33 34.18	75.98
23 21	13 23-2182	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <i>For Work In Restricted Working Space, Add</i>	140.94 40.59	90.26
<b>23 21</b>	<b>13 23-2183</b>		<b>Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters</b> <small>(23 21 13 23-2085)</small>		
23 21	13 23-2184	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	17.74 5.24	11.69
23 21	13 23-2185	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	23.64 6.98	15.48
23 21	13 23-2186	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	29.27 8.66	19.27
23 21	13 23-2187	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	41.50 12.25	27.28
23 21	13 23-2188	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	46.82 13.82	30.73
23 21	13 23-2189	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	59.55 17.55	39.07
23 21	13 23-2190	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	91.13 25.97	57.79
23 21	13 23-2191	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	120.04 34.18	75.98
23 21	13 23-2192	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <i>For Work In Restricted Working Space, Add</i>	145.41 40.59	90.26
<b>23 21</b>	<b>13 23-2193</b>		<b>Schedule 40 Polyvinyl Chloride (PVC) P-Traps</b> <small>(23 21 13 23-2085)</small>		
23 21	13 23-2194	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) P-Traps <i>For Work In Restricted Working Space, Add</i>	25.82 7.14	15.91
<b>23 21</b>	<b>13 23-2195</b>		<b>Schedule 40 Polyvinyl Chloride (PVC) Couplings</b> <small>(23 21 13 23-2085)</small>		
23 21	13 23-2196	EA	1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	17.63 5.24	11.69
23 21	13 23-2197	EA	3/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	23.50 6.98	15.48
23 21	13 23-2198	EA	1" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	29.27 8.66	19.27
23 21	13 23-2199	EA	1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	41.39 12.25	27.28
23 21	13 23-2200	EA	1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	46.66 13.82	30.73
23 21	13 23-2201	EA	2" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	59.44 17.55	39.07
23 21	13 23-2202	EA	2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	88.68 25.97	57.79
23 21	13 23-2203	EA	3" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	117.20 34.18	75.98
23 21	13 23-2204	EA	4" Schedule 40 Polyvinyl Chloride (PVC) Couplings <i>For Work In Restricted Working Space, Add</i>	140.06 40.59	90.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2205 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	169.72 46.38	103.14
23 21 13 23-2206 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	208.62 54.11	120.35
23 21 13 23-2207 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	322.96 58.01	129.00
<b>23 21 13 23-2208 Schedule 40 Polyvinyl Chloride (PVC) Unions</b> <small>(23 21 13 23-2085)</small>		
23 21 13 23-2209 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i>	30.32 8.66	19.27
23 21 13 23-2210 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i>	39.57 10.47	23.27
23 21 13 23-2211 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i>	51.26 13.82	30.73
23 21 13 23-2212 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i>	71.19 17.55	39.07
23 21 13 23-2213 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i>	83.06 20.95	46.53
23 21 13 23-2214 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i>	104.42 25.97	57.79
23 21 13 23-2215 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i>	146.30 34.18	75.98
23 21 13 23-2216 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i>	169.60 40.59	90.26
23 21 13 23-2217 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i>	248.41 54.11	120.35
23 21 13 23-2218 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i>	323.84 69.79	155.19
23 21 13 23-2219 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i>	438.91 86.54	192.42
23 21 13 23-2220 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i>	606.18 107.45	238.85
<b>23 21 13 23-2221 Schedule 40 Polyvinyl Chloride (PVC) Caps</b> <small>(23 21 13 23-2085)</small>		
23 21 13 23-2222 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i>	17.84 5.29	11.79
23 21 13 23-2223 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i>	23.56 6.98	15.48
23 21 13 23-2224 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i>	29.30 8.66	19.27
23 21 13 23-2225 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i>	41.83 12.37	27.52
23 21 13 23-2226 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i>	46.71 13.82	30.73
23 21 13 23-2227 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i>	59.30 17.55	39.07
23 21 13 23-2228 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i>	89.20 25.97	57.79
23 21 13 23-2229 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i>	116.76 34.18	75.98
23 21 13 23-2230 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i>	141.80 40.59	90.26
23 21 13 23-2231 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i>	170.19 46.38	103.14
23 21 13 23-2232 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i>	232.50 54.11	120.35
23 21 13 23-2233 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i>	386.20 58.01	129.00
<b>23 21 13 23-2234 Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges</b> <small>(23 21 13 23-2085)</small>		
23 21 13 23-2235 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Socket Weld Flanges ..... <i>For Work In Restricted Working Space, Add</i>	34.40 8.66	19.27
23 21 13 23-2236 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i>	43.40 10.47	23.27
23 21 13 23-2237 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i>	55.51 13.82	30.73
23 21 13 23-2238 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i>	68.23 17.55	39.07
23 21 13 23-2239 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i>	79.78 20.95	46.53
23 21 13 23-2240 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i>	99.82 25.97	57.79
23 21 13 23-2241 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i>	134.35 34.18	75.98
23 21 13 23-2242 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i>	157.85 40.59	90.26
23 21 13 23-2243 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i>	208.95 54.11	120.35
23 21 13 23-2244 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges ..... <i>For Work In Restricted Working Space, Add</i>	277.56 69.79	155.19

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2245	EA	8" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	389.80 86.54	192.42
23 21	13 23-2246	EA	10" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	586.03 107.28	238.53
<b>23 21</b>	<b>13 23-2247</b>		<b>Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings</b> (23 21 13 23-2084) Note: ASTM D1785 with D2467 fittings.		
<b>23 21</b>	<b>13 23-2248</b>		<b>Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe</b> (23 21 13 23-2247)		
23 21	13 23-2249	LF	1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	5.07 1.39	3.14
23 21	13 23-2250	LF	3/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	6.35 1.74	3.90
23 21	13 23-2251	LF	1" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	7.77 2.09	4.65
23 21	13 23-2252	LF	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	9.23 2.44	5.41
23 21	13 23-2253	LF	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	10.60 2.79	6.17
23 21	13 23-2254	LF	2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	13.54 3.49	7.79
23 21	13 23-2255	LF	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	15.63 3.84	8.55
23 21	13 23-2256	LF	3" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	17.72 4.19	9.31
23 21	13 23-2257	LF	4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	22.98 5.24	11.69
23 21	13 23-2258	LF	6" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	33.76 6.98	15.48
23 21	13 23-2259	LF	8" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	43.72 8.33	18.50
23 21	13 23-2260	LF	10" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe ..... <i>For Work In Restricted Working Space, Add</i>	79.10 8.97	19.91
<b>23 21</b>	<b>13 23-2261</b>		<b>Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows</b> (23 21 13 23-2247)		
23 21	13 23-2262	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	18.45 5.24 2.62	11.69
23 21	13 23-2263	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	24.58 6.98 3.49	15.48
23 21	13 23-2264	EA	1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	30.96 8.66 4.33	19.27
23 21	13 23-2265	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	43.63 12.25 6.13	27.28
23 21	13 23-2266	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	49.03 13.82 6.91	30.73
23 21	13 23-2267	EA	2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	62.11 17.55 8.78	39.07
23 21	13 23-2268	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	95.05 25.97 12.99	57.79
23 21	13 23-2269	EA	3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	123.43 34.18 17.09	75.98
23 21	13 23-2270	EA	4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	149.74 40.59 20.29	90.26
23 21	13 23-2271	EA	6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	206.82 46.38 23.19	103.14
23 21	13 23-2272	EA	8" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	293.86 54.11 27.06	120.35
23 21	13 23-2273	EA	10" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	430.35 90.73 45.37	201.74
<b>23 21</b>	<b>13 23-2274</b>		<b>Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows</b> (23 21 13 23-2247)		
23 21	13 23-2275	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	19.36 5.24 2.62	11.69
23 21	13 23-2276	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	26.18 6.98 3.49	15.48



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2277 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	33.22 8.66 4.33	19.27
23 21 13 23-2278 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	46.41 12.25 6.13	27.28
23 21 13 23-2279 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	52.61 13.82 6.91	30.73
23 21 13 23-2280 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	67.02 17.55 8.78	39.07
23 21 13 23-2281 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	104.51 25.97 12.99	57.79
23 21 13 23-2282 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	135.74 34.18 17.09	75.98
23 21 13 23-2283 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	174.59 40.59 20.29	90.26
23 21 13 23-2284 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	204.09 46.38 23.19	103.14
23 21 13 23-2285 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	287.67 54.11 27.06	120.35
23 21 13 23-2286 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	423.38 90.73 45.37	201.74
<b>23 21 13 23-2287 Schedule 80 Polyvinyl Chloride (PVC) Tees (23 21 13 23-2247)</b>		
23 21 13 23-2288 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	30.24 8.22 4.11	18.29
23 21 13 23-2289 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	37.89 10.47 5.24	23.27
23 21 13 23-2290 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	49.77 13.82 6.91	30.73
23 21 13 23-2291 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	68.79 17.55 8.78	39.07
23 21 13 23-2292 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	80.11 20.95 10.47	46.53
23 21 13 23-2293 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	99.46 25.97 12.99	57.79
23 21 13 23-2294 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	127.93 34.18 17.09	75.98
23 21 13 23-2295 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	152.78 40.59 20.29	90.26
23 21 13 23-2296 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	200.65 54.11 27.06	120.35
23 21 13 23-2297 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	301.99 69.82 34.91	155.19
23 21 13 23-2298 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	449.22 86.58 43.29	192.53
23 21 13 23-2299 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Tees ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	904.00 129.39 64.70	287.67
<b>23 21 13 23-2300 Schedule 80 Polyvinyl Chloride (PVC) Crosses (23 21 13 23-2247)</b>		
23 21 13 23-2301 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	38.70 10.28 5.14	22.83
23 21 13 23-2302 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	48.31 13.09 6.55	29.12
23 21 13 23-2303 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	63.41 17.27 8.64	38.42
23 21 13 23-2304 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	89.26 21.94 10.97	48.81

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2305 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses .....	103.41	58.22
For Work In Restricted Working Space, Add	26.18	
For Threaded Fittings, Add	13.09	
23 21 13 23-2306 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Crosses .....	128.42	72.19
For Work In Restricted Working Space, Add	32.47	
For Threaded Fittings, Add	16.23	
23 21 13 23-2307 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses .....	164.36	95.02
For Work In Restricted Working Space, Add	42.72	
For Threaded Fittings, Add	21.36	
23 21 13 23-2308 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Crosses .....	196.51	112.77
For Work In Restricted Working Space, Add	50.73	
For Threaded Fittings, Add	25.37	
23 21 13 23-2309 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Crosses .....	257.25	150.43
For Work In Restricted Working Space, Add	67.64	
For Threaded Fittings, Add	33.82	
23 21 13 23-2310 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Crosses .....	399.36	193.94
For Work In Restricted Working Space, Add	87.24	
For Threaded Fittings, Add	43.62	
23 21 13 23-2311 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Crosses .....	612.36	240.48
For Work In Restricted Working Space, Add	108.17	
For Threaded Fittings, Add	54.08	
23 21 13 23-2312 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Crosses .....	1,280.39	359.75
For Work In Restricted Working Space, Add	161.82	
For Threaded Fittings, Add	80.91	
<b>23 21 13 23-2313 Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts (23 21 13 23-2247)</b>		
23 21 13 23-2314 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	23.86	15.48
For Work In Restricted Working Space, Add	6.98	
For Threaded Fittings, Add	3.49	
23 21 13 23-2315 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	30.54	19.27
For Work In Restricted Working Space, Add	8.66	
For Threaded Fittings, Add	4.33	
23 21 13 23-2316 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	43.49	27.28
For Work In Restricted Working Space, Add	12.25	
For Threaded Fittings, Add	6.13	
23 21 13 23-2317 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	49.66	30.73
For Work In Restricted Working Space, Add	13.82	
For Threaded Fittings, Add	6.91	
23 21 13 23-2318 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	63.66	39.07
For Work In Restricted Working Space, Add	17.55	
For Threaded Fittings, Add	8.78	
23 21 13 23-2319 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	95.52	57.79
For Work In Restricted Working Space, Add	25.97	
For Threaded Fittings, Add	12.99	
23 21 13 23-2320 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	128.12	75.98
For Work In Restricted Working Space, Add	34.18	
For Threaded Fittings, Add	17.09	
23 21 13 23-2321 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	154.98	90.26
For Work In Restricted Working Space, Add	40.59	
For Threaded Fittings, Add	20.29	
23 21 13 23-2322 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	176.45	103.14
For Work In Restricted Working Space, Add	46.38	
For Threaded Fittings, Add	23.19	
23 21 13 23-2323 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	228.86	120.35
For Work In Restricted Working Space, Add	54.11	
For Threaded Fittings, Add	27.06	
23 21 13 23-2324 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts.....	313.24	139.72
For Work In Restricted Working Space, Add	62.87	
For Threaded Fittings, Add	31.43	
<b>23 21 13 23-2325 Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts (23 21 13 23-2247)</b>		
23 21 13 23-2326 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....	17.65	11.69
For Work In Restricted Working Space, Add	5.24	
For Threaded Fittings, Add	2.62	
23 21 13 23-2327 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....	24.36	15.48
For Work In Restricted Working Space, Add	6.98	
For Threaded Fittings, Add	3.49	
23 21 13 23-2328 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....	30.54	19.27
For Work In Restricted Working Space, Add	8.66	
For Threaded Fittings, Add	4.33	
23 21 13 23-2329 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....	44.26	27.28
For Work In Restricted Working Space, Add	12.25	
For Threaded Fittings, Add	6.13	
23 21 13 23-2330 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....	50.35	30.73
For Work In Restricted Working Space, Add	13.82	
For Threaded Fittings, Add	6.91	
23 21 13 23-2331 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....	63.77	39.07
For Work In Restricted Working Space, Add	17.55	
For Threaded Fittings, Add	8.78	
23 21 13 23-2332 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts .....	97.72	57.79
For Work In Restricted Working Space, Add	25.97	
For Threaded Fittings, Add	12.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2333 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	134.55 34.18 17.09	75.98
23 21 13 23-2334 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	167.00 40.59 20.29	90.26
<b>23 21 13 23-2335 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters</b> <small>(23 21 13 23-2247)</small>		
23 21 13 23-2336 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	19.80 5.24 2.62	11.69
23 21 13 23-2337 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	25.87 6.98 3.49	15.48
23 21 13 23-2338 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	33.38 8.66 4.33	19.27
23 21 13 23-2339 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	46.14 12.25 6.13	27.28
23 21 13 23-2340 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	53.66 13.82 6.91	30.73
23 21 13 23-2341 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	68.43 17.55 8.78	39.07
23 21 13 23-2342 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	97.89 25.97 12.99	57.79
23 21 13 23-2343 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	126.47 34.18 17.09	75.98
23 21 13 23-2344 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	157.60 40.59 20.29	90.26
<b>23 21 13 23-2345 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters</b> <small>(23 21 13 23-2247)</small>		
23 21 13 23-2346 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	19.17 5.24 2.62	11.69
23 21 13 23-2347 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	25.82 6.98 3.49	15.48
23 21 13 23-2348 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	32.61 8.66 4.33	19.27
23 21 13 23-2349 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	46.93 12.25 6.13	27.28
23 21 13 23-2350 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	53.52 13.82 6.91	30.73
23 21 13 23-2351 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	71.52 17.55 8.78	39.07
23 21 13 23-2352 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	107.15 25.97 12.99	57.79
23 21 13 23-2353 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	137.08 34.18 17.09	75.98
23 21 13 23-2354 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	175.11 40.59 20.29	90.26
<b>23 21 13 23-2355 Schedule 80 Polyvinyl Chloride (PVC) Couplings</b> <small>(23 21 13 23-2247)</small>		
23 21 13 23-2356 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	19.28 5.24 2.62	11.69
23 21 13 23-2357 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	25.73 6.98 3.49	15.48
23 21 13 23-2358 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	31.40 8.66 4.33	19.27
23 21 13 23-2359 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	44.73 12.25 6.13	27.28

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2360 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	50.24 13.82 6.91	30.73
23 21 13 23-2361 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	62.97 17.55 8.78	39.07
23 21 13 23-2362 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	97.64 25.97 12.99	57.79
23 21 13 23-2363 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	126.63 34.18 17.09	75.98
23 21 13 23-2364 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	151.23 40.59 20.29	90.26
23 21 13 23-2365 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	188.89 46.38 23.19	103.14
23 21 13 23-2366 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	227.04 54.11 27.06	120.35
23 21 13 23-2367 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	331.24 58.01 29.00	129.00
<b>23 21 13 23-2368 Schedule 80 Polyvinyl Chloride (PVC) Unions</b> <small>(23 21 13 23-2247)</small>		
23 21 13 23-2369 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	32.94 8.66 4.33	19.27
23 21 13 23-2370 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	39.63 10.47 5.24	23.27
23 21 13 23-2371 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	51.43 13.82 6.91	30.73
23 21 13 23-2372 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	71.96 17.55 8.78	39.07
23 21 13 23-2373 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	87.14 20.95 10.47	46.53
23 21 13 23-2374 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	110.05 25.97 12.99	57.79
23 21 13 23-2375 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	157.62 34.18 17.09	75.98
23 21 13 23-2376 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	191.62 40.59 20.29	90.26
23 21 13 23-2377 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	248.58 54.11 27.06	120.35
23 21 13 23-2378 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	323.84 69.79 34.90	155.19
23 21 13 23-2379 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	438.91 86.54 43.27	192.42
23 21 13 23-2380 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Unions ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	605.61 107.28 53.64	238.53
<b>23 21 13 23-2381 Schedule 80 Polyvinyl Chloride (PVC) Caps</b> <small>(23 21 13 23-2247)</small>		
23 21 13 23-2382 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	20.02 5.24 2.62	11.69
23 21 13 23-2383 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	25.98 6.98 3.49	15.48
23 21 13 23-2384 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	33.66 8.66 4.33	19.27
23 21 13 23-2385 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	46.63 12.25 6.13	27.28
23 21 13 23-2386 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	51.84 13.82 6.91	30.73
23 21 13 23-2387 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Caps ..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	67.19 17.55 8.78	39.07





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2388 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	104.42 25.97 12.99	57.79
23 21 13 23-2389 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	135.73 34.18 17.09	75.98
23 21 13 23-2390 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	170.37 40.59 20.29	90.26
23 21 13 23-2391 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	241.76 46.38 23.19	103.14
23 21 13 23-2392 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	300.10 54.11 27.06	120.35
23 21 13 23-2393 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	413.78 58.01 29.00	129.00
<b>23 21 13 23-2394 Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges</b> <small>(23 21 13 23-2247)</small>		
23 21 13 23-2395 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	36.77 8.66 4.33	19.27
23 21 13 23-2396 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	43.40 10.47 5.24	23.27
23 21 13 23-2397 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	55.51 13.82 6.91	30.73
23 21 13 23-2398 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	68.24 17.55 8.78	39.07
23 21 13 23-2399 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	79.78 20.95 10.47	46.53
23 21 13 23-2400 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	99.82 25.97 12.99	57.79
23 21 13 23-2401 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	134.36 34.18 17.09	75.98
23 21 13 23-2402 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	157.85 40.59 20.29	90.26
23 21 13 23-2403 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	208.95 54.11 27.06	120.35
23 21 13 23-2404 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	277.56 69.79 34.90	155.19
23 21 13 23-2405 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	389.80 86.54 43.27	192.42
23 21 13 23-2406 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	586.03 107.28 53.64	238.53
<b>23 21 13 23-2407 Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe</b> <small>(23 21 13 23-2084)</small>		
Note: In place pipe.		
23 21 13 23-2408 EA 1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	5.88 1.76	
23 21 13 23-2409 EA 3/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	6.35 1.91	
23 21 13 23-2410 EA 1", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	7.14 2.14	
23 21 13 23-2411 EA 1-1/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	7.50 2.25	
23 21 13 23-2412 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	7.94 2.38	
23 21 13 23-2413 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	8.73 2.62	
23 21 13 23-2414 EA 2-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	9.40 2.82	
23 21 13 23-2415 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	11.11 3.33	
23 21 13 23-2416 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	14.99 4.50	
23 21 13 23-2417 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	21.43 6.43	
23 21 13 23-2418 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	28.57 8.57	
23 21 13 23-2419 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe..... <i>For Work In Restricted Working Space, Add</i>	34.93 10.48	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2420 Polyethylene Pipe And Fittings (23 21 13 23)		
23 21 13 23-2421 Small Diameter Tubing (23 21 13 23-2420)		
23 21 13 23-2422 Tubing (23 21 13 23-2421)		
23 21 13 23-2423 LF 1/4" Polyethylene Tubing.....	3.32	
For Work In Restricted Working Space, Add	0.98	
23 21 13 23-2424 LF 5/16" Polyethylene Tubing.....	3.43	
For Work In Restricted Working Space, Add	1.00	
23 21 13 23-2425 LF 3/8" Polyethylene Tubing.....	3.53	
For Work In Restricted Working Space, Add	1.02	
23 21 13 23-2426 LF 1/2" Polyethylene Tubing.....	3.77	
For Work In Restricted Working Space, Add	1.10	
23 21 13 23-2427 Chrome Plated Pipe (23 21 13 23)		
23 21 13 23-2428 Chrome Plated Nipples (23 21 13 23-2427)		
23 21 13 23-2429 Close (23 21 13 23-2428)		
23 21 13 23-2430 EA 1/4" Diameter Chrome Plated Nipple, Close.....	17.73	9.40
23 21 13 23-2431 EA 3/8" Diameter Chrome Plated Nipple, Close.....	18.01	10.23
23 21 13 23-2432 EA 1/2" Diameter Chrome Plated Nipple, Close.....	21.58	11.75
23 21 13 23-2433 EA 3/4" Diameter Chrome Plated Nipple, Close.....	27.84	14.93
23 21 13 23-2434 EA 1" Diameter Chrome Plated Nipple, Close.....	36.98	19.64
23 21 13 23-2435 EA 1-1/4" Diameter Chrome Plated Nipple, Close.....	52.09	27.40
23 21 13 23-2436 EA 1-1/2" Diameter Chrome Plated Nipple, Close.....	62.37	32.10
23 21 13 23-2437 EA 2" Diameter Chrome Plated Nipple, Close.....	79.12	39.98
23 21 13 23-2438 1-1/2" Nipples (23 21 13 23-2428)		
23 21 13 23-2439 EA 1/4" Diameter Chrome Plated Nipple, 1-1/2" Length.....	18.70	9.76
23 21 13 23-2440 EA 3/8" Diameter Chrome Plated Nipple, 1-1/2" Length.....	18.86	10.58
23 21 13 23-2441 EA 1/2" Diameter Chrome Plated Nipple, 1-1/2" Length.....	22.20	12.12
23 21 13 23-2442 EA 3/4" Diameter Chrome Plated Nipple, 1-1/2" Length.....	28.70	15.29
23 21 13 23-2443 2" Nipples (23 21 13 23-2428)		
23 21 13 23-2444 EA 1/4" Diameter Chrome Plated Nipple, 2" Length.....	19.46	10.23
23 21 13 23-2445 EA 3/8" Diameter Chrome Plated Nipple, 2" Length.....	19.53	10.93
23 21 13 23-2446 EA 1/2" Diameter Chrome Plated Nipple, 2" Length.....	23.43	12.58
23 21 13 23-2447 EA 3/4" Diameter Chrome Plated Nipple, 2" Length.....	29.81	15.64
23 21 13 23-2448 EA 1" Diameter Chrome Plated Nipple, 2" Length.....	38.80	20.34
23 21 13 23-2449 EA 1-1/4" Diameter Chrome Plated Nipple, 2" Length.....	54.63	28.22
23 21 13 23-2450 EA 1-1/2" Diameter Chrome Plated Nipple, 2" Length.....	65.22	32.92
23 21 13 23-2451 2-1/2" Nipples (23 21 13 23-2428)		
23 21 13 23-2452 EA 1/4" Diameter Chrome Plated Nipple, 2-1/2" Length.....	20.42	10.58
23 21 13 23-2453 EA 3/8" Diameter Chrome Plated Nipple, 2-1/2" Length.....	20.25	11.40
23 21 13 23-2454 EA 1/2" Diameter Chrome Plated Nipple, 2-1/2" Length.....	24.32	12.93
23 21 13 23-2455 EA 3/4" Diameter Chrome Plated Nipple, 2-1/2" Length.....	30.55	16.11
23 21 13 23-2456 EA 1" Diameter Chrome Plated Nipple, 2-1/2" Length.....	39.75	20.82
23 21 13 23-2457 EA 1-1/4" Diameter Chrome Plated Nipple, 2-1/2" Length.....	56.75	28.57
23 21 13 23-2458 EA 1-1/2" Diameter Chrome Plated Nipple, 2-1/2" Length.....	67.94	33.28
23 21 13 23-2459 EA 2" Diameter Chrome Plated Nipple, 2-1/2" Length.....	85.34	41.15
23 21 13 23-2460 3" Nipples (23 21 13 23-2428)		
23 21 13 23-2461 EA 1/4" Diameter Chrome Plated Nipple, 3" Length.....	21.21	10.93
23 21 13 23-2462 EA 3/8" Diameter Chrome Plated Nipple, 3" Length.....	21.19	11.75
23 21 13 23-2463 EA 1/2" Diameter Chrome Plated Nipple, 3" Length.....	23.80	12.58
23 21 13 23-2464 EA 3/4" Diameter Chrome Plated Nipple, 3" Length.....	32.18	16.47
23 21 13 23-2465 EA 1" Diameter Chrome Plated Nipple, 3" Length.....	42.74	21.17
23 21 13 23-2466 EA 1-1/4" Diameter Chrome Plated Nipple, 3" Length.....	59.07	29.05
23 21 13 23-2467 EA 1-1/2" Diameter Chrome Plated Nipple, 3" Length.....	73.91	33.75
23 21 13 23-2468 EA 2" Diameter Chrome Plated Nipple, 3" Length.....	90.08	41.62
23 21 13 23-2469 3-1/2" Nipples (23 21 13 23-2428)		
23 21 13 23-2470 EA 1/4" Diameter Chrome Plated Nipple, 3-1/2" Length.....	22.10	11.40
23 21 13 23-2471 EA 3/8" Diameter Chrome Plated Nipple, 3-1/2" Length.....	22.57	12.12
23 21 13 23-2472 EA 1/2" Diameter Chrome Plated Nipple, 3-1/2" Length.....	26.14	13.75
23 21 13 23-2473 EA 3/4" Diameter Chrome Plated Nipple, 3-1/2" Length.....	34.47	16.82
23 21 13 23-2474 EA 1" Diameter Chrome Plated Nipple, 3-1/2" Length.....	44.11	21.52
23 21 13 23-2475 EA 1-1/4" Diameter Chrome Plated Nipple, 3-1/2" Length.....	63.23	29.40
23 21 13 23-2476 EA 1-1/2" Diameter Chrome Plated Nipple, 3-1/2" Length.....	75.93	34.10
23 21 13 23-2477 EA 2" Diameter Chrome Plated Nipple, 3-1/2" Length.....	93.94	41.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 21 13 23-2478 4" Nipples</b> <small>(23 21 13 23-2428)</small>		
23 21 13 23-2479 EA 1/4" Diameter Chrome Plated Nipple, 4" Length.....	22.96	11.75
23 21 13 23-2480 EA 3/8" Diameter Chrome Plated Nipple, 4" Length.....	23.21	12.58
23 21 13 23-2481 EA 1/2" Diameter Chrome Plated Nipple, 4" Length.....	25.93	13.29
23 21 13 23-2482 EA 3/4" Diameter Chrome Plated Nipple, 4" Length.....	35.56	17.28
23 21 13 23-2483 EA 1" Diameter Chrome Plated Nipple, 4" Length.....	45.43	21.99
23 21 13 23-2484 EA 1-1/4" Diameter Chrome Plated Nipple, 4" Length.....	66.49	29.75
23 21 13 23-2485 EA 1-1/2" Diameter Chrome Plated Nipple, 4" Length.....	79.74	34.45
23 21 13 23-2486 EA 2" Diameter Chrome Plated Nipple, 4" Length.....	98.56	42.33
<b>23 21 13 23-2487 4-1/2" Nipples</b> <small>(23 21 13 23-2428)</small>		
23 21 13 23-2488 EA 1/4" Diameter Chrome Plated Nipple, 4-1/2" Length.....	23.76	12.12
23 21 13 23-2489 EA 3/8" Diameter Chrome Plated Nipple, 4-1/2" Length.....	24.60	12.93
23 21 13 23-2490 EA 1/2" Diameter Chrome Plated Nipple, 4-1/2" Length.....	28.33	14.47
23 21 13 23-2491 EA 3/4" Diameter Chrome Plated Nipple, 4-1/2" Length.....	36.78	17.64
23 21 13 23-2492 EA 1" Diameter Chrome Plated Nipple, 4-1/2" Length.....	49.16	22.34
23 21 13 23-2493 EA 1-1/4" Diameter Chrome Plated Nipple, 4-1/2" Length.....	69.63	30.22
23 21 13 23-2494 EA 1-1/2" Diameter Chrome Plated Nipple, 4-1/2" Length.....	81.61	34.92
23 21 13 23-2495 EA 2" Diameter Chrome Plated Nipple, 4-1/2" Length.....	102.84	42.80
<b>23 21 13 23-2496 5" Nipples</b> <small>(23 21 13 23-2428)</small>		
23 21 13 23-2497 EA 1/4" Diameter Chrome Plated Nipple, 5" Length.....	25.71	12.58
23 21 13 23-2498 EA 3/8" Diameter Chrome Plated Nipple, 5" Length.....	25.59	13.29
23 21 13 23-2499 EA 1/2" Diameter Chrome Plated Nipple, 5" Length.....	29.23	14.93
23 21 13 23-2500 EA 3/4" Diameter Chrome Plated Nipple, 5" Length.....	37.96	17.99
23 21 13 23-2501 EA 1" Diameter Chrome Plated Nipple, 5" Length.....	51.55	22.70
23 21 13 23-2502 EA 1-1/4" Diameter Chrome Plated Nipple, 5" Length.....	72.53	30.57
23 21 13 23-2503 EA 1-1/2" Diameter Chrome Plated Nipple, 5" Length.....	85.45	35.27
23 21 13 23-2504 EA 2" Diameter Chrome Plated Nipple, 5" Length.....	105.71	43.15
<b>23 21 13 23-2505 5-1/2" Nipples</b> <small>(23 21 13 23-2428)</small>		
23 21 13 23-2506 EA 1/4" Diameter Chrome Plated Nipple, 5-1/2" Length.....	26.54	12.93
23 21 13 23-2507 EA 3/8" Diameter Chrome Plated Nipple, 5-1/2" Length.....	26.44	13.75
23 21 13 23-2508 EA 1/2" Diameter Chrome Plated Nipple, 5-1/2" Length.....	31.16	15.29
23 21 13 23-2509 EA 3/4" Diameter Chrome Plated Nipple, 5-1/2" Length.....	39.14	18.47
23 21 13 23-2510 EA 1" Diameter Chrome Plated Nipple, 5-1/2" Length.....	52.96	23.17
23 21 13 23-2511 EA 1-1/4" Diameter Chrome Plated Nipple, 5-1/2" Length.....	75.95	30.92
23 21 13 23-2512 EA 1-1/2" Diameter Chrome Plated Nipple, 5-1/2" Length.....	88.54	35.63
23 21 13 23-2513 EA 2" Diameter Chrome Plated Nipple, 5-1/2" Length.....	109.31	43.51
<b>23 21 13 23-2514 6" Nipples</b> <small>(23 21 13 23-2428)</small>		
23 21 13 23-2515 EA 1/4" Diameter Chrome Plated Nipple, 6" Length.....	27.44	13.29
23 21 13 23-2516 EA 3/8" Diameter Chrome Plated Nipple, 6" Length.....	27.07	14.11
23 21 13 23-2517 EA 1/2" Diameter Chrome Plated Nipple, 6" Length.....	32.04	15.64
23 21 13 23-2518 EA 3/4" Diameter Chrome Plated Nipple, 6" Length.....	40.16	18.82
23 21 13 23-2519 EA 1" Diameter Chrome Plated Nipple, 6" Length.....	56.59	23.52
23 21 13 23-2520 EA 1-1/4" Diameter Chrome Plated Nipple, 6" Length.....	78.19	31.40
23 21 13 23-2521 EA 1-1/2" Diameter Chrome Plated Nipple, 6" Length.....	93.16	36.10
23 21 13 23-2522 EA 2" Diameter Chrome Plated Nipple, 6" Length.....	112.60	43.98
<b>23 21 13 23-2523 8" Nipples</b> <small>(23 21 13 23-2428)</small>		
23 21 13 23-2524 EA 3/8" Diameter Chrome Plated Nipple, 8" Length.....	30.66	14.93
23 21 13 23-2525 EA 1/2" Diameter Chrome Plated Nipple, 8" Length.....	40.63	16.47
23 21 13 23-2526 EA 3/4" Diameter Chrome Plated Nipple, 8" Length.....	49.06	19.64
23 21 13 23-2527 EA 1" Diameter Chrome Plated Nipple, 8" Length.....	63.73	24.34
23 21 13 23-2528 EA 1-1/4" Diameter Chrome Plated Nipple, 8" Length.....	89.12	32.10
23 21 13 23-2529 EA 1-1/2" Diameter Chrome Plated Nipple, 8" Length.....	107.26	36.80
23 21 13 23-2530 EA 2" Diameter Chrome Plated Nipple, 8" Length.....	131.55	44.69
<b>23 21 13 23-2531 10" Nipples</b> <small>(23 21 13 23-2428)</small>		
23 21 13 23-2532 EA 3/8" Diameter Chrome Plated Nipple, 10" Length.....	33.45	14.93
23 21 13 23-2533 EA 1/2" Diameter Chrome Plated Nipple, 10" Length.....	44.13	16.47
23 21 13 23-2534 EA 3/4" Diameter Chrome Plated Nipple, 10" Length.....	53.12	19.64
23 21 13 23-2535 EA 1" Diameter Chrome Plated Nipple, 10" Length.....	69.87	24.34
23 21 13 23-2536 EA 1-1/4" Diameter Chrome Plated Nipple, 10" Length.....	102.28	32.10
23 21 13 23-2537 EA 1-1/2" Diameter Chrome Plated Nipple, 10" Length.....	117.28	36.80
23 21 13 23-2538 EA 2" Diameter Chrome Plated Nipple, 10" Length.....	147.56	44.69
<b>23 21 13 23-2539 12" Nipples</b> <small>(23 21 13 23-2428)</small>		
23 21 13 23-2540 EA 3/8" Diameter Chrome Plated Nipple, 12" Length.....	37.18	16.47
23 21 13 23-2541 EA 1/2" Diameter Chrome Plated Nipple, 12" Length.....	46.21	17.28
23 21 13 23-2542 EA 3/4" Diameter Chrome Plated Nipple, 12" Length.....	57.59	20.34

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2543 EA 1" Diameter Chrome Plated Nipple, 12" Length.....	79.78	25.87
23 21 13 23-2544 EA 1-1/4" Diameter Chrome Plated Nipple, 12" Length.....	112.77	33.75
23 21 13 23-2545 EA 2" Diameter Chrome Plated Nipple, 12" Length.....	162.81	46.33
<b>23 21 13 23-2546 18" Nipples (23 21 13 23-2428)</b>		
23 21 13 23-2547 EA 3/8" Diameter Chrome Plated Nipple, 18" Length.....	44.26	17.28
<b>23 21 13 23-2548 24" Nipples (23 21 13 23-2428)</b>		
23 21 13 23-2549 EA 3/8" Diameter Chrome Plated Nipple, 24" Length.....	51.07	17.99
<b>23 21 13 23-2550 30" Nipples (23 21 13 23-2428)</b>		
23 21 13 23-2551 EA 3/8" Diameter Chrome Plated Nipple, 30" Length.....	55.64	18.82
<b>23 21 13 23-2552 36" Nipples (23 21 13 23-2428)</b>		
23 21 13 23-2553 EA 3/8" Diameter Chrome Plated Nipple, 36" Length.....	60.24	19.64
<b>23 21 13 23-2554 Chrome Plated Fittings (23 21 13 23-2427)</b>		
<b>23 21 13 23-2555 Chrome Plated 90 Degree Elbows (23 21 13 23-2554)</b>		
23 21 13 23-2556 EA 1/4" 90 Degree Elbow, Chrome Plated.....	21.15	10.93
23 21 13 23-2557 EA 3/8" 90 Degree Elbow, Chrome Plated.....	22.02	11.75
23 21 13 23-2558 EA 1/2" 90 Degree Elbow, Chrome Plated.....	24.23	12.58
23 21 13 23-2559 EA 3/4" 90 Degree Elbow, Chrome Plated.....	31.29	16.47
23 21 13 23-2560 EA 1" 90 Degree Elbow, Chrome Plated.....	41.53	21.17
23 21 13 23-2561 EA 1-1/4" 90 Degree Elbow, Chrome Plated.....	61.03	29.05
23 21 13 23-2562 EA 1-1/2" 90 Degree Elbow, Chrome Plated.....	72.43	33.75
23 21 13 23-2563 EA 2" 90 Degree Elbow, Chrome Plated.....	95.46	41.62
<b>23 21 13 23-2564 Chrome Plated Street 90 Degree Elbows (23 21 13 23-2554)</b>		
23 21 13 23-2565 EA 1/4" Street 90 Degree Elbow, Chrome Plated.....	23.10	10.93
23 21 13 23-2566 EA 3/8" Street 90 Degree Elbow, Chrome Plated.....	24.17	11.75
23 21 13 23-2567 EA 1/2" Street 90 Degree Elbow, Chrome Plated.....	25.73	12.58
23 21 13 23-2568 EA 3/4" Street 90 Degree Elbow, Chrome Plated.....	33.49	16.47
23 21 13 23-2569 EA 1" Street 90 Degree Elbow, Chrome Plated.....	45.60	21.17
23 21 13 23-2570 EA 1-1/4" Street 90 Degree Elbow, Chrome Plated.....	65.21	29.05
23 21 13 23-2571 EA 1-1/2" Street 90 Degree Elbow, Chrome Plated.....	78.27	33.75
23 21 13 23-2572 EA 2" Street 90 Degree Elbow, Chrome Plated.....	109.22	41.62
<b>23 21 13 23-2573 Chrome Plated 45 Degree Elbows (23 21 13 23-2554)</b>		
23 21 13 23-2574 EA 1/4" 45 Degree Elbow, Chrome Plated.....	21.57	10.93
23 21 13 23-2575 EA 3/8" 45 Degree Elbow, Chrome Plated.....	22.64	11.75
23 21 13 23-2576 EA 1/2" 45 Degree Elbow, Chrome Plated.....	24.68	12.58
23 21 13 23-2577 EA 3/4" 45 Degree Elbow, Chrome Plated.....	32.97	16.47
23 21 13 23-2578 EA 1" 45 Degree Elbow, Chrome Plated.....	43.42	21.17
23 21 13 23-2579 EA 1-1/4" 45 Degree Elbow, Chrome Plated.....	63.30	29.05
23 21 13 23-2580 EA 1-1/2" 45 Degree Elbow, Chrome Plated.....	75.45	33.75
23 21 13 23-2581 EA 2" 45 Degree Elbow, Chrome Plated.....	103.78	41.62
<b>23 21 13 23-2582 Chrome Plated Street 45 Degree Elbows (23 21 13 23-2554)</b>		
23 21 13 23-2583 EA 1/2" Street 45 Degree Elbow, Chrome Plated.....	27.37	12.58
<b>23 21 13 23-2584 Chrome Plated Couplings (23 21 13 23-2554)</b>		
23 21 13 23-2585 EA 1/4" Coupling, Chrome Plated.....	20.87	10.93
23 21 13 23-2586 EA 3/8" Coupling, Chrome Plated.....	22.05	11.75
23 21 13 23-2587 EA 1/2" Coupling, Chrome Plated.....	24.34	12.58
23 21 13 23-2588 EA 3/4" Coupling, Chrome Plated.....	31.33	16.47
23 21 13 23-2589 EA 1" Coupling, Chrome Plated.....	40.60	21.17
23 21 13 23-2590 EA 1-1/4" Coupling, Chrome Plated.....	57.65	29.05
23 21 13 23-2591 EA 1-1/2" Coupling, Chrome Plated.....	69.59	33.75
23 21 13 23-2592 EA 2" Coupling, Chrome Plated.....	92.00	41.62
<b>23 21 13 23-2593 Chrome Plated Unions (23 21 13 23-2554)</b>		
23 21 13 23-2594 EA 1/4" Union, Chrome Plated.....	29.48	12.58
23 21 13 23-2595 EA 3/8" Union, Chrome Plated.....	30.66	13.29
23 21 13 23-2596 EA 1/2" Union, Chrome Plated.....	36.09	14.93
23 21 13 23-2597 EA 3/4" Union, Chrome Plated.....	45.66	19.64
23 21 13 23-2598 EA 1" Union, Chrome Plated.....	57.98	25.05
23 21 13 23-2599 EA 1-1/4" Union, Chrome Plated.....	88.46	33.75
23 21 13 23-2600 EA 1-1/2" Union, Chrome Plated.....	108.55	39.98



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2601 EA 2" Union, Chrome Plated .....	138.80	48.68
<b>23 21 13 23-2602 Chrome Plated Caps (23 21 13 23-2554)</b>		
23 21 13 23-2603 EA 1/4" Cap, Chrome Plated .....	12.53	5.53
23 21 13 23-2604 EA 3/8" Cap, Chrome Plated .....	13.11	5.88
23 21 13 23-2605 EA 1/2" Cap, Chrome Plated .....	14.62	6.23
23 21 13 23-2606 EA 3/4" Cap, Chrome Plated .....	18.57	8.23
23 21 13 23-2607 EA 1" Cap, Chrome Plated .....	22.70	10.58
23 21 13 23-2608 EA 1-1/4" Cap, Chrome Plated .....	32.64	14.47
23 21 13 23-2609 EA 1-1/2" Cap, Chrome Plated .....	41.20	16.82
23 21 13 23-2610 EA 2" Cap, Chrome Plated .....	58.14	21.99
<b>23 21 13 23-2611 Chrome Plated Plugs (23 21 13 23-2554)</b>		
23 21 13 23-2612 EA 1/4" Plug, Chrome Plated .....	11.04	5.53
23 21 13 23-2613 EA 3/8" Plug, Chrome Plated .....	11.62	5.88
23 21 13 23-2614 EA 1/2" Plug, Chrome Plated .....	13.05	6.23
23 21 13 23-2615 EA 3/4" Plug, Chrome Plated .....	17.45	8.23
23 21 13 23-2616 EA 1" Plug, Chrome Plated .....	21.85	10.58
23 21 13 23-2617 EA 1-1/4" Plug, Chrome Plated .....	29.69	14.47
23 21 13 23-2618 EA 1-1/2" Plug, Chrome Plated .....	35.80	16.82
23 21 13 23-2619 EA 2" Plug, Chrome Plated .....	48.75	21.99
<b>23 21 13 23-2620 Chrome Plated Tees (23 21 13 23-2554)</b>		
23 21 13 23-2621 EA 1/4" Tee, Chrome Plated .....	30.34	16.47
23 21 13 23-2622 EA 3/8" Tee, Chrome Plated .....	32.69	17.99
23 21 13 23-2623 EA 1/2" Tee, Chrome Plated .....	36.04	19.64
23 21 13 23-2624 EA 3/4" Tee, Chrome Plated .....	44.80	24.34
23 21 13 23-2625 EA 1" Tee, Chrome Plated .....	61.16	31.40
23 21 13 23-2626 EA 1-1/4" Tee, Chrome Plated .....	84.23	43.15
23 21 13 23-2627 EA 1-1/2" Tee, Chrome Plated .....	103.84	50.21
23 21 13 23-2628 EA 2" Tee, Chrome Plated .....	136.95	61.97
<b>23 21 13 23-2629 Chrome Plated Reducing 90 Degree Elbows (23 21 13 23-2554)</b>		
23 21 13 23-2630 EA 1/2" x 3/8" Reducing 90 Degree Elbow, Chrome Plated .....	35.04	19.64
23 21 13 23-2631 EA 3/4" x 1/2" Reducing 90 Degree Elbow, Chrome Plated .....	42.09	24.34
<b>23 21 13 23-2632 Chrome Plated Bell Reducers (23 21 13 23-2554)</b>		
23 21 13 23-2633 EA 1/2" x 3/8" Bell Reducer, Chrome Plated .....	36.85	19.64
23 21 13 23-2634 EA 3/4" x 1/2" Bell Reducer, Chrome Plated .....	45.21	24.34
23 21 13 23-2635 EA 1" x 1/2" Bell Reducer, Chrome Plated .....	57.83	31.40
<b>23 21 13 23-2636 Chrome Plated Reducing Tees (23 21 13 23-2554)</b>		
23 21 13 23-2637 EA 3/4" x 1/2" Reducing Tee, Chrome Plated .....	47.51	24.34
<b>23 21 13 23-2638 Chrome Plated Bushings (23 21 13 23-2554)</b>		
23 21 13 23-2639 EA 3/8" x 1/4" Bushing, Chrome Plated .....	10.99	5.53
23 21 13 23-2640 EA 1/2" x 1/4" Bushing, Chrome Plated .....	11.80	5.88
23 21 13 23-2641 EA 1/2" x 3/8" Bushing, Chrome Plated .....	12.39	6.23
23 21 13 23-2642 EA 3/4" x 1/2" Bushing, Chrome Plated .....	15.97	8.23
23 21 13 23-2643 EA 1" x 3/4" Bushing, Chrome Plated .....	22.14	10.58
23 21 13 23-2644 EA 1-1/4" x 1" Bushing, Chrome Plated .....	31.63	14.47
<b>23 21 13 23-2645 Aluminum Tubing Assemblies (23 21 13 23)</b>		
Note: ASTM B210 (Tubing), ASTM B26 (Fittings). Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2646 LF 1/8" Inside Diameter Aluminum Pipe/Tubing Assembly .....	9.55	4.12
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2647 LF 3/16" Inside Diameter Aluminum Pipe/Tubing Assembly .....	10.90	4.70
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2648 LF 1/4" Inside Diameter Aluminum Pipe/Tubing Assembly .....	12.16	5.29
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2649 LF 5/16" Inside Diameter Aluminum Pipe/Tubing Assembly .....	13.37	5.88
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2650 LF 3/8" Inside Diameter Aluminum Pipe/Tubing Assembly .....	14.79	6.47
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		
23 21 13 23-2651 LF 1/2" Inside Diameter Aluminum Pipe/Tubing Assembly .....	16.70	7.05
Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.		

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2652 LF 5/8" Inside Diameter Aluminum Pipe/Tubing Assembly ..... Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	19.44	8.12
23 21 13 23-2653 LF 3/4" Inside Diameter Aluminum Pipe/Tubing Assembly ..... Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	23.31	9.20
23 21 13 23-2654 LF 7/8" Inside Diameter Aluminum Pipe/Tubing Assembly ..... Note: Includes all hangers and aluminum fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies.	26.72	10.28
23 21 13 23-2655 LF 1" Inside Diameter Aluminum Pipe/Tubing Assembly .....	30.88	10.82
<b>23 21 16 Hydronic Piping Specialties (23 21)</b>		
<b>23 21 16 00-001 Vent Valves (23 21 16)</b>		
23 21 16 00-0002 EA 1/8", 1.5 PSIG Operating Pressure, Non Vacuum Adjustable Angle Radiator Steam Vent Valve (Hoffman 1A) .....	60.14	17.65
23 21 16 00-0003 EA 1/2" x 3/4", 35 PSIG Operating Pressure, Straight Steam Unit Heater Air Vent Valve (Hoffman 74) .....	123.85	18.97
23 21 16 00-0004 EA 1/2" x 3/4", 3 PSIG Operating Pressure, Non Vacuum Main Steam Air Vent Valve (Hoffman 75) .....	118.87	18.97
23 21 16 00-0005 EA 1/2" x 3/4", 10 PSIG Operating Pressure, Non Vacuum Straight Non-Vacuum Main Steam Air Vent Valve (Hoffman 75H) .....	122.36	18.97
23 21 16 00-0006 EA 3/4", 150 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 78) .....	152.88	18.97
23 21 16 00-0007 EA 1/2" x 3/4", 75 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 79) .....	117.50	18.97
<b>23 21 16 00-0008 Threaded Inlet, Drip-Pan Elbow (23 21 16)</b>		
<b>23 21 16 00-0009 Cast Iron, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)</b>		
23 21 16 00-0010 EA 2-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow .....	197.36	29.50
For Flanged Inlet, Add	54.75	
23 21 16 00-0011 EA 3" Cast Iron, Threaded Inlet, Drip-Pan Elbow .....	227.40	34.96
For Flanged Inlet, Add	58.77	
23 21 16 00-0012 EA 3-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow .....	279.66	40.42
For Flanged Inlet, Add	79.29	
23 21 16 00-0013 EA 4" Cast Iron, Threaded Inlet, Drip-Pan Elbow .....	390.33	45.89
For Flanged Inlet, Add	139.51	
23 21 16 00-0014 EA 5" Cast Iron, Threaded Inlet, Drip-Pan Elbow .....	445.29	54.62
For Flanged Inlet, Add	154.22	
23 21 16 00-0015 EA 6" Cast Iron, Threaded Inlet, Drip-Pan Elbow .....	604.55	68.83
For Flanged Inlet, Add	225.37	
23 21 16 00-0016 EA 8" Cast Iron, Threaded Inlet, Drip-Pan Elbow .....	1,246.08	90.68
For Flanged Inlet, Add	599.70	
<b>23 21 16 00-0017 Cast Steel, Threaded Inlet, Drip-Pan Elbow (23 21 16 00-0008)</b>		
23 21 16 00-0018 EA 2-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow .....	310.08	29.50
For Flanged Inlet, Add	131.40	
23 21 16 00-0019 EA 3" Cast Steel, Threaded Inlet, Drip-Pan Elbow .....	375.11	34.96
For Flanged Inlet, Add	159.22	
23 21 16 00-0020 EA 3-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow .....	512.00	40.42
For Flanged Inlet, Add	237.28	
23 21 16 00-0021 EA 4" Cast Steel, Threaded Inlet, Drip-Pan Elbow .....	534.11	45.89
For Flanged Inlet, Add	237.28	
23 21 16 00-0022 EA 5" Cast Steel, Threaded Inlet, Drip-Pan Elbow .....	739.13	54.62
For Flanged Inlet, Add	354.03	
23 21 16 00-0023 EA 6" Cast Steel, Threaded Inlet, Drip-Pan Elbow .....	793.76	68.83
For Flanged Inlet, Add	354.03	
23 21 16 00-0024 EA 8" Cast Steel, Threaded Inlet, Drip-Pan Elbow .....	1,258.22	90.68
For Flanged Inlet, Add	607.95	
<b>23 21 16 00-0025 Y-Type Strainers (23 21 16)</b>		
<b>23 21 16 00-0026 Screwed Ends, 250 LB, Iron Body, Y-Type Strainers (23 21 16 00-0025)</b>		
23 21 16 00-0027 EA 1/4" Or 3/8" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer .....	56.06	13.17
For Galvanized Body, Add	9.21	
For Work In Restricted Working Space, Add	11.29	
23 21 16 00-0028 EA 1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer .....	56.65	13.41
For Galvanized Body, Add	9.21	
For Work In Restricted Working Space, Add	11.47	
23 21 16 00-0029 EA 3/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer .....	73.75	18.11
For Galvanized Body, Add	11.00	
For Work In Restricted Working Space, Add	15.53	
23 21 16 00-0030 EA 1" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer .....	91.46	21.65
For Galvanized Body, Add	14.86	
For Work In Restricted Working Space, Add	18.53	
23 21 16 00-0031 EA 1-1/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer .....	117.17	26.76
For Galvanized Body, Add	20.36	
For Work In Restricted Working Space, Add	22.94	
23 21 16 00-0032 EA 1-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer .....	131.36	28.82
For Galvanized Body, Add	24.51	
For Work In Restricted Working Space, Add	24.70	
23 21 16 00-0033 EA 2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer .....	169.56	32.93
For Galvanized Body, Add	37.74	
For Work In Restricted Working Space, Add	28.23	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0034 EA 2-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	287.28 84.83 35.29	41.16
23 21 16 00-0035 EA 3" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	368.68 110.83 44.11	51.51
<b>23 21 16 00-0036 Flanged, 125 LB, Iron Body , Y-Type Strainers</b> <small>(23 21 16 00-0025)</small>		
23 21 16 00-0037 EA 1-1/2" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	248.42 46.83 46.43	123.50
23 21 16 00-0038 EA 2" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	297.40 50.68 58.81	156.79
23 21 16 00-0039 EA 3" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	491.89 120.82 75.08	199.96
23 21 16 00-0040 EA 4" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	694.27 137.10 126.02	335.22
23 21 16 00-0041 EA 5" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	700.09 153.39 118.00	315.14
23 21 16 00-0042 EA 6" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	820.26 190.50 131.78	350.16
23 21 16 00-0043 EA 8" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,306.17 375.18 166.74	447.42
23 21 16 00-0044 EA 10" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,353.29 836.22 204.26	544.69
23 21 16 00-0045 EA 12" Flanged, 125 LB, Iron Body, Y-Type Strainer..... <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,711.61 869.48 291.80	486.33
<b>23 21 16 00-0046 Screwed Ends, 150 LB, Bronze Body, Y-Type Strainers</b> <small>(23 21 16 00-0025)</small>		
Note: With screwed cap (4" size has bolted cap).		
23 21 16 00-0047 EA 1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	51.63 22.78 11.47	13.41
23 21 16 00-0048 EA 3/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.18 29.61 15.53	18.11
23 21 16 00-0049 EA 1" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	83.69 37.30 18.53	21.65
23 21 16 00-0050 EA 1-1/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	103.93 46.70 22.94	26.76
23 21 16 00-0051 EA 1-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.01 60.64 24.70	28.82
23 21 16 00-0052 EA 2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	152.04 98.52 28.23	32.93
23 21 16 00-0053 EA 2-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	213.25 162.57 35.29	41.16
23 21 16 00-0054 EA 3" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	345.31 337.08 44.11	51.51
23 21 16 00-0055 EA 4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	552.73 639.71 52.93	61.75
<b>23 21 16 00-0056 Flanged, 150 LB, Bronze Body, Y-Type Strainers</b> <small>(23 21 16 00-0025)</small>		
Note: With bolted cap.		
23 21 16 00-0057 EA 2" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	362.48 99.86 58.81	156.79
23 21 16 00-0058 EA 2-1/2" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	383.44 101.75 64.16	170.55
23 21 16 00-0059 EA 3" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	444.44 116.51 75.08	199.96
23 21 16 00-0060 EA 4" Flanged, 150 LB, Bronze Body, Y-Type Strainer..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	891.90 283.10 126.02	335.22

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0061 EA 6" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	1,154.49	350.16
For 300 LB Rating, Add	429.13	
For Work In Restricted Working Space, Add	131.78	
23 21 16 00-0062 EA 8" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	1,776.39	447.42
For 300 LB Rating, Add	732.35	
For Work In Restricted Working Space, Add	166.74	
23 21 16 00-0063 EA 10" Flanged, 150 LB, Bronze Body, Y-Type Strainer.....	5,061.68	544.69
For 300 LB Rating, Add	2,628.49	
For Work In Restricted Working Space, Add	204.26	
<b>23 21 16 00-0064 Cast Iron Body, Suction Diffusers (23 21 16)</b>		
Note: 175 PSI, steel inlet vanes, steel orifice cylinder and 16 mesh bronze startup strainer.		
23 21 16 00-0065 EA 2" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	385.41	46.34
For Work In Restricted Working Space, Add	22.69	
23 21 16 00-0066 EA 2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	406.18	51.40
For Work In Restricted Working Space, Add	25.20	
23 21 16 00-0067 EA 2-1/2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	413.53	53.99
For Work In Restricted Working Space, Add	26.48	
23 21 16 00-0068 EA 2-1/2" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	796.25	170.55
For Work In Restricted Working Space, Add	64.16	
23 21 16 00-0069 EA 3" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	430.87	62.81
For Work In Restricted Working Space, Add	30.75	
23 21 16 00-0070 EA 3" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser.....	483.53	62.81
For Work In Restricted Working Space, Add	30.75	
23 21 16 00-0071 EA 3" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	836.13	185.65
For Work In Restricted Working Space, Add	69.62	
23 21 16 00-0072 EA 3" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	857.43	199.96
For Work In Restricted Working Space, Add	75.08	
23 21 16 00-0073 EA 4" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,050.75	268.13
For Work In Restricted Working Space, Add	100.55	
23 21 16 00-0074 EA 4" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,244.08	335.22
For Work In Restricted Working Space, Add	126.02	
23 21 16 00-0075 EA 6" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,378.42	314.66
For Work In Restricted Working Space, Add	118.00	
23 21 16 00-0076 EA 6" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,656.71	350.16
For Work In Restricted Working Space, Add	131.78	
23 21 16 00-0077 EA 8" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	1,887.86	447.42
For Work In Restricted Working Space, Add	166.74	
23 21 16 00-0078 EA 8" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	2,845.08	447.42
For Work In Restricted Working Space, Add	166.74	
23 21 16 00-0079 EA 10" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	3,261.33	544.69
For Work In Restricted Working Space, Add	204.26	
23 21 16 00-0080 EA 10" x 10" Flanged, 175 LB, Cast Iron Body, Suction Diffuser.....	3,784.86	544.69
For Work In Restricted Working Space, Add	204.26	
<b>23 21 16 00-0081 Duplex Strainers (23 21 16)</b>		
<b>23 21 16 00-0082 Iron Body, Duplex Strainers (23 21 16 00-0081)</b>		
<b>23 21 16 00-0083 Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers (23 21 16 00-0082)</b>		
Note: With brass or stainless steel basket.		
23 21 16 00-0084 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	400.27	29.28
For Work In Restricted Working Space, Add	17.58	
23 21 16 00-0085 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	447.90	33.53
For Work In Restricted Working Space, Add	20.13	
23 21 16 00-0086 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	600.15	39.40
For Work In Restricted Working Space, Add	23.63	
23 21 16 00-0087 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	747.82	42.93
For Work In Restricted Working Space, Add	25.76	
23 21 16 00-0088 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	996.54	52.34
For Work In Restricted Working Space, Add	31.51	
23 21 16 00-0089 EA 2-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	1,255.12	67.04
For Work In Restricted Working Space, Add	40.22	
<b>23 21 16 00-0090 Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers (23 21 16 00-0082)</b>		
Note: With brass or stainless steel basket.		
23 21 16 00-0091 EA 2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	1,388.29	156.79
For Work In Restricted Working Space, Add	58.81	
23 21 16 00-0092 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	1,441.70	170.55
For Work In Restricted Working Space, Add	64.16	
23 21 16 00-0093 EA 3" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	1,833.99	199.96
For Work In Restricted Working Space, Add	75.08	
23 21 16 00-0094 EA 4" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	2,838.64	277.21
For Work In Restricted Working Space, Add	104.21	
23 21 16 00-0095 EA 6" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	5,421.80	350.16
For Work In Restricted Working Space, Add	131.78	
23 21 16 00-0096 EA 8" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	10,164.97	447.42
For Work In Restricted Working Space, Add	166.74	
23 21 16 00-0097 EA 10" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer.....	13,991.33	544.69
For Work In Restricted Working Space, Add	204.26	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0098 EA 12" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	16,179.05 412.15	686.70
23 21 16 00-0099 EA 14" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	18,909.77 291.80	778.13
23 21 16 00-0100 EA 16" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	23,562.49 320.98	855.94
<b>23 21 16 00-0101 Bronze Body, Duplex Strainers</b> <small>(23 21 16 00-0081)</small>		
<b>23 21 16 00-0102 Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainers</b> <small>(23 21 16 00-0101)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0103 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	717.02 17.58	29.41
23 21 16 00-0104 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	796.67 20.13	33.53
23 21 16 00-0105 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	1,155.34 23.63	39.40
23 21 16 00-0106 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	1,509.44 25.76	42.93
23 21 16 00-0107 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	1,946.78 31.51	52.34
23 21 16 00-0108 EA 2-1/2" Screwed, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	2,393.98 40.22	67.04
<b>23 21 16 00-0109 Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainers</b> <small>(23 21 16 00-0101)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0110 EA 2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	2,758.48 58.81	156.79
23 21 16 00-0111 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	2,847.48 64.16	170.55
23 21 16 00-0112 EA 3" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	3,880.39 75.08	199.96
23 21 16 00-0113 EA 4" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	6,077.29 104.21	277.21
23 21 16 00-0114 EA 6" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	13,037.95 131.78	350.16
<b>23 21 16 00-0115 Cast Steel Body, Duplex Strainers</b> <small>(23 21 16 00-0081)</small>		
<b>23 21 16 00-0116 Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers</b> <small>(23 21 16 00-0115)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0117 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	1,103.38 20.13	33.53
23 21 16 00-0118 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	1,356.83 23.63	39.40
23 21 16 00-0119 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	1,605.76 25.76	42.93
23 21 16 00-0120 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	2,695.73 31.51	52.34
<b>23 21 16 00-0121 Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers</b> <small>(23 21 16 00-0115)</small> Note: With brass or stainless steel basket.		
23 21 16 00-0122 EA 2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	2,804.02 58.81	156.79
23 21 16 00-0123 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	3,080.91 64.16	170.55
23 21 16 00-0124 EA 3" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	4,032.69 75.08	199.96
23 21 16 00-0125 EA 4" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	5,891.49 104.21	277.21
23 21 16 00-0126 EA 6" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	9,973.07 131.78	350.16
23 21 16 00-0127 EA 8" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	19,277.98 166.74	447.42
<b>23 21 16 00-0128 Stainless Steel Body, Duplex Strainers</b> <small>(23 21 16 00-0081)</small>		
<b>23 21 16 00-0129 Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers</b> <small>(23 21 16 00-0128)</small> Note: With stainless steel basket.		
23 21 16 00-0130 EA 1" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	4,448.59 20.13	33.53
23 21 16 00-0131 EA 1-1/4" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	5,620.53 23.63	39.40
23 21 16 00-0132 EA 1-1/2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer ..... <i>For Work In Restricted Working Space, Add</i>	6,779.83 25.76	42.93

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0133 EA 2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	10,855.90 31.51	52.34
<b>23 21 16 00-0134 Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers</b> <small>(23 21 16 00-0128)</small> Note: With stainless steel basket.		
23 21 16 00-0135 EA 2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	11,393.19 58.81	156.79
23 21 16 00-0136 EA 2-1/2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	11,978.98 64.16	170.55
23 21 16 00-0137 EA 3" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	18,749.90 75.08	199.96
23 21 16 00-0138 EA 4" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	22,903.95 104.21	277.21
23 21 16 00-0139 EA 6" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	40,197.26 131.78	350.16
23 21 16 00-0140 EA 8" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	74,229.79 166.74	447.42
<b>23 21 16 00-0141 Pressure Regulating Valve</b> <small>(23 21 16)</small>		
<b>23 21 16 00-0142 Screwed Ends, Water Pressure Reducing Valves</b> <small>(23 21 16 00-0141)</small> Note: For building services, 25 - 75 PSI, up to 300 Lbs. rating, iron construction.		
23 21 16 00-0143 EA 1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	130.69 17.64	14.70
23 21 16 00-0144 EA 3/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	156.96 19.60	16.47
23 21 16 00-0145 EA 1" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	196.94 20.75	17.64
23 21 16 00-0146 EA 1-1/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	314.58 23.52	19.75
23 21 16 00-0147 EA 1-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	419.87 28.22	23.52
23 21 16 00-0148 EA 2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	607.11 43.29	36.04
23 21 16 00-0149 EA 2-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	663.51 48.70	40.58
23 21 16 00-0150 EA 3" Screwed Ends, Iron Construction, Water Pressure Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	730.21 54.11	117.43
<b>23 21 16 00-0151 Cast Iron Body, Steam Pressure Regulator And Reducer</b> <small>(23 21 16 00-0141)</small> Note: Single seated, spring loaded, direct acting diaphragm valve.		
<b>23 21 16 00-0152 Screwed Ends, Cast Iron Body, Steam Pressure Regulator And Reducer</b> <small>(23 21 16 00-0151)</small>		
23 21 16 00-0153 EA 1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	208.44 23.68	19.76
23 21 16 00-0154 EA 3/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	268.68 33.61	28.00
23 21 16 00-0155 EA 1" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	341.15 41.03	34.11
23 21 16 00-0156 EA 1-1/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	442.46 47.68	41.40
23 21 16 00-0157 EA 1-1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	575.10 54.29	47.05
23 21 16 00-0158 EA 2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	676.16 65.55	65.55
<b>23 21 16 00-0159 Flanged, Cast Iron Body, Steam Pressure Regulator And Reducer</b> <small>(23 21 16 00-0151)</small> Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0160 EA 2-1/2" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,381.70 59.59	158.41
23 21 16 00-0161 EA 3" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	1,709.60 69.74	185.73
23 21 16 00-0162 EA 4" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	2,251.92 117.05	311.36
23 21 16 00-0163 EA 6" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer..... <i>For Work In Restricted Working Space, Add</i>	5,287.93 131.74	350.05
<b>23 21 16 00-0164 Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves</b> <small>(23 21 16 00-0141)</small>		
<b>23 21 16 00-0165 Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves</b> <small>(23 21 16 00-0164)</small>		
23 21 16 00-0166 EA 1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	959.53 21.52	14.35
23 21 16 00-0167 EA 3/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	978.79 21.52	14.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0168 EA 1" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	1,051.10 27.17	18.11
23 21 16 00-0169 EA 1-1/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	1,240.52 34.58	23.05
23 21 16 00-0170 EA 1-1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	1,420.76 39.88	26.58
23 21 16 00-0171 EA 2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	1,756.61 46.93	31.28
<b>23 21 16 00-0172 Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves</b> <small>(23 21 16 00-0164)</small>		
23 21 16 00-0173 EA 2-1/2" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	2,173.18 59.59	158.41
23 21 16 00-0174 EA 3" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	2,673.35 69.74	185.73
23 21 16 00-0175 EA 4" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	4,071.85 117.05	311.36
23 21 16 00-0176 EA 6" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	8,698.84 131.74	350.05
<b>23 21 16 00-0177 Screwed Ends, Cast Iron Body, Air Pressure Reducing Valves</b> <small>(23 21 16 00-0141)</small>		
23 21 16 00-0178 EA 1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	142.52	15.29
23 21 16 00-0179 EA 3/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	172.03	16.93
23 21 16 00-0180 EA 1" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	217.95	17.99
23 21 16 00-0181 EA 1-1/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	353.41	20.47
23 21 16 00-0182 EA 1-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	473.41	24.45
23 21 16 00-0183 EA 2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	683.21	37.45
23 21 16 00-0184 EA 2-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	740.50	40.80
23 21 16 00-0185 EA 3" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve.....	820.62	46.97
<b>23 21 16 00-0186 Screwed Ends, Bronze Body, Water Pressure Reducing Valves</b> <small>(23 21 16 00-0141)</small> Note: For building services, bronze construction, pressure adjustment, union and strainer, factory set at 45 PSI (Watts 25AUB).		
23 21 16 00-0187 EA 1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	118.08	14.70
23 21 16 00-0188 EA 3/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	130.17	16.47
23 21 16 00-0189 EA 1" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	154.89	18.22
23 21 16 00-0190 EA 1-1/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	318.13	19.75
23 21 16 00-0191 EA 1-1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	350.01	23.52
23 21 16 00-0192 EA 2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve.....	547.96	36.04
<b>23 21 16 00-0193 Dual Unit Reducing And Relief Valve</b> <small>(23 21 16)</small>		
23 21 16 00-0194 EA 1/2" Dual Unit Reducing And Relief Valve.....	136.37	35.88
<b>23 21 16 00-0195 Safety Relief Valve</b> <small>(23 21 16)</small> Note: Used in water heater and hot water storage tank applications.		
<b>23 21 16 00-0196 Threaded Inlet, Bronze Body Safety Valves</b> <small>(23 21 16 00-0195)</small> Note: Variable set points to 150 psig pressure, 210 Degree F temperature range.		
23 21 16 00-0197 EA 1/2" x 1/2" Threaded Inlet, Bronze Body Safety Valve.....	69.05	14.70
23 21 16 00-0198 EA 3/4" x 3/4" Threaded Inlet, Bronze Body Safety Valve.....	86.28	16.17
23 21 16 00-0199 EA 1" x 1" Threaded Inlet, Bronze Body Safety Valve.....	116.45	19.69
23 21 16 00-0200 EA 1-1/4" x 1-1/4" Threaded Inlet, Bronze Body Safety Valve.....	140.29	20.87
23 21 16 00-0201 EA 1-1/2" x 1-1/2" Threaded Inlet, Bronze Body Safety Valve.....	191.35	27.93
23 21 16 00-0202 EA 2" x 2" Threaded Inlet, Bronze Body Safety Valve.....	246.53	32.92
23 21 16 00-0203 EA 2-1/2" x 2-1/2" Threaded Inlet, Bronze Body Safety Valve.....	288.11	41.15
<b>23 21 16 00-0204 Threaded, Bronze Body, Temperature And Pressure Relief Valves</b> <small>(23 21 16)</small>		
23 21 16 00-0205 EA 1/2" x 1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	67.99 23.74	29.99
23 21 16 00-0206 EA 3/4" x 3/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	85.25 33.08	35.98
23 21 16 00-0207 EA 1" x 1" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	120.54 52.68	47.97
23 21 16 00-0208 EA 1-1/4" x 1-1/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	173.56 111.96	51.39
23 21 16 00-0209 EA 1-1/2" x 1-1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	265.38 214.18	57.62
23 21 16 00-0210 EA 2" x 2" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	321.87 233.23	82.79
<b>23 21 16 00-0211 Horizontal Steel Expansion Tanks</b> <small>(23 21 16)</small> Note: ASME Code Stamp. 150 PSI with glass gauge and cocks.		
23 21 16 00-0212 EA 10 Gallon Horizontal Steel Expansion Tank.....	514.11	117.62
23 21 16 00-0213 EA 15 Gallon Horizontal Steel Expansion Tank.....	712.35	147.03
23 21 16 00-0214 EA 30 Gallon Horizontal Steel Expansion Tank.....	921.07	176.43

**23 Heating, Ventilating, And Air-Conditioning (HVAC)**

**23 20 HVAC Piping And Pumps**

**23 21 Hydronic Piping And Pumps**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 21	16 00-0215	EA 40 Gallon Horizontal Steel Expansion Tank.....	1,062.36	205.84
	23 21	16 00-0216	EA 60 Gallon Horizontal Steel Expansion Tank.....	1,172.49	194.53
<b>23 21 16 00-0217 Horizontal Diaphragm Type (Bladder) Steel Expansion Tanks (23 21 16)</b>					
Note: ASME. Precharged with working pressure 125 psi. Armstrong AX Series.					
	23 21	16 00-0218	EA 7.8 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,428.39	88.22
	23 21	16 00-0219	EA 10.9 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,494.18	102.92
	23 21	16 00-0220	EA 21.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,219.11	117.62
	23 21	16 00-0221	EA 33.6 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,312.73	132.32
	23 21	16 00-0222	EA 44.4 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,127.54	147.03
	23 21	16 00-0223	EA 55.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,300.34	161.73
	23 21	16 00-0224	EA 68.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,920.41	176.43
	23 21	16 00-0225	EA 77.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,195.93	191.13
	23 21	16 00-0226	EA 90.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,623.39	205.84
	23 21	16 00-0227	EA 110.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,759.24	235.24
	23 21	16 00-0228	EA 132.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	5,963.00	264.65
	23 21	16 00-0229	EA 158.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	6,835.05	294.05
	23 21	16 00-0230	EA 211.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	7,937.13	352.86
<b>23 21 16 00-0231 Vertical Diaphragm Type (Bladder) Steel Expansion Tanks (23 21 16)</b>					
Note: ASME. Precharged with working pressure 125 psi (Armstrong AX)					
	23 21	16 00-0232	EA 8.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,625.28	88.22
	23 21	16 00-0233	EA 11.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,680.37	102.92
	23 21	16 00-0234	EA 22.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,398.88	117.62
	23 21	16 00-0235	EA 34.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,563.12	132.32
	23 21	16 00-0236	EA 44.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,253.81	147.03
	23 21	16 00-0237	EA 56.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,424.46	161.73
	23 21	16 00-0238	EA 67.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,170.80	176.43
	23 21	16 00-0239	EA 77.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,508.38	191.13
	23 21	16 00-0240	EA 91.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,985.06	205.84
	23 21	16 00-0241	EA 111.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,114.50	235.24
	23 21	16 00-0242	EA 132.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	6,286.16	264.65
	23 21	16 00-0243	EA 158.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	7,290.89	294.05
	23 21	16 00-0244	EA 211.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	8,401.53	352.86
<b>23 21 16 00-0245 Diaphragm Type (Residential Style) Steel Expansion Tanks (23 21 16)</b>					
	23 21	16 00-0246	EA 2.1 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-5-M1) .....	65.25	10.82
	23 21	16 00-0247	EA 4.5 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-12-M1) .....	89.28	10.82
<b>23 21 16 00-0248 Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tanks (23 21 16)</b>					
	23 21	16 00-0249	EA 15 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,020.13	352.98
	23 21	16 00-0250	EA 20 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,052.10	352.98
	23 21	16 00-0251	EA 30 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,084.06	352.98
	23 21	16 00-0252	EA 40 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,167.15	352.98
	23 21	16 00-0253	EA 47 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,430.73	470.37
	23 21	16 00-0254	EA 60 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,622.30	470.60
	23 21	16 00-0255	EA 80 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,660.27	470.60
	23 21	16 00-0256	EA 87 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,698.24	470.60
	23 21	16 00-0257	EA 120 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	2,152.89	588.10
	23 21	16 00-0258	EA 187 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	5,371.67	588.10
	23 21	16 00-0259	EA 264 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	6,800.57	705.49
<b>23 21 16 00-0260 ASME Construction Compression Tanks (23 21 16)</b>					
Note: With gauge glass taps, 125 PSI, 240 degree F tanks below are sized by capacity and diameter and height. See CSI section 22 12 00 00-0000 for other tanks.					
	23 21	16 00-0261	EA 15 Gallon, 13" x 34-1/2" ASME Construction Compression Tank.....	831.00	207.01
			For Galvanized Steel Tanks, Add	258.67	
	23 21	16 00-0262	EA 24 Gallon, 13" x 51" ASME Construction Compression Tank .....	848.42	212.89
			For Galvanized Steel Tanks, Add	262.48	
	23 21	16 00-0263	EA 30 Gallon, 13" x 61-1/2" ASME Construction Compression Tank.....	919.87	219.96
			For Galvanized Steel Tanks, Add	292.91	
	23 21	16 00-0264	EA 40 Gallon, 16-1/4" x 53" ASME Construction Compression Tank.....	1,001.26	228.19
			For Galvanized Steel Tanks, Add	327.14	
	23 21	16 00-0265	EA 60 Gallon, 16-1/4" x 76-1/2" ASME Construction Compression Tank.....	1,155.85	241.12
			For Galvanized Steel Tanks, Add	395.61	
	23 21	16 00-0266	EA 80 Gallon, 20-1/4" x 68" ASME Construction Compression Tank.....	1,201.07	250.54
			For Galvanized Steel Tanks, Add	410.83	
	23 21	16 00-0267	EA 100 Gallon, 20-1/4" x 82" ASME Construction Compression Tank.....	1,470.22	272.88
			For Galvanized Steel Tanks, Add	528.76	
	23 21	16 00-0268	EA 120 Gallon, 24-1/4" x 71-1/2" ASME Construction Compression Tank.....	1,600.24	292.88
			For Galvanized Steel Tanks, Add	578.20	
	23 21	16 00-0269	EA 144 Gallon, 24-1/4" x 83-1/2" ASME Construction Compression Tank.....	1,975.79	330.51
			For Galvanized Steel Tanks, Add	737.64	
	23 21	16 00-0270	EA 180 Gallon, 30" x 60" ASME Construction Compression Tank.....	2,490.96	378.74
			For Galvanized Steel Tanks, Add	958.60	



<b>Heating, Ventilating, And Air-Conditioning (HVAC)</b>	<b>23</b>
HVAC Piping And Pumps	<b>23 20</b>
Hydronic Piping And Pumps	<b>23 21</b>

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0271 EA 202 Gallon, 30" x 72" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	2,968.57 1,166.39	419.91
23 21 16 00-0272 EA 230 Gallon, 30" x 84" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	3,245.30 1,276.71	456.37
23 21 16 00-0273 EA 280 Gallon, 30" x 96" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	4,065.43 1,653.29	501.06
23 21 16 00-0274 EA 306 Gallon, 30" x 108" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	4,202.79 1,695.81	535.18
23 21 16 00-0275 EA 340 Gallon, 36" x 84" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	5,364.19 2,246.46	575.17
23 21 16 00-0276 EA 550 Gallon, 36" x 96" ASME Construction Compression Tank..... <i>For Galvanized Steel Tanks, Add</i>	8,807.03 3,892.12	675.14
<b>23 21 16 00-0277 Compression Tank Air Fittings (23 21 16)</b>		
23 21 16 00-0278 EA 9" To 24" Diameter Compression Tank Air Fittings.....	114.20	32.93
23 21 16 00-0279 EA >100 Gallon Compression Tank Air Fittings .....	305.46	38.81
<b>23 21 16 00-0280 Thermostatic Radiator Valves (23 21 16)</b>		
Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0281 EA 1/2" Straight Thermostatic Radiator Valve (Danfoss 013G8015).....	59.13	18.97
23 21 16 00-0282 EA 3/4" Straight Thermostatic Radiator Valve (Danfoss 013G8020).....	73.20	25.57
23 21 16 00-0283 EA 1" Straight Thermostatic Radiator Valve (Danfoss 013G8025).....	96.32	30.96
23 21 16 00-0284 EA 1-1/4" Straight Thermostatic Radiator Valve (Danfoss 013G8032).....	137.54	39.21
23 21 16 00-0285 EA 1/2" Angle Thermostatic Radiator Valve (Danfoss 013G8014).....	59.13	18.97
23 21 16 00-0286 EA 3/4" Angle Thermostatic Radiator Valve (Danfoss 013G8019).....	73.20	25.57
23 21 16 00-0287 EA 1" Angle Thermostatic Radiator Valve (Danfoss 013G8024).....	96.32	30.96
23 21 16 00-0288 EA 1-1/4" Angle Thermostatic Radiator Valve (Danfoss 013G8031).....	137.54	39.21
23 21 16 00-0289 EA Tamper Resistant Valve Mounted Dial And Sensor Thermostatic Operator (Danfoss 013G8240).....	68.01	14.70
23 21 16 00-0290 EA Tamper Resistant Valve Mounted Dial With Remote Sensor Thermostatic Operator (Danfoss 013G2922).....	99.62	20.58
<b>23 21 16 00-0291 Radiator Trap Repair Kits (23 21 16)</b>		
Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0292 EA 1/2" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1031) .....	94.27	
23 21 16 00-0293 EA 3/4" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1032) .....	117.12	
23 21 16 00-0294 EA 1/2" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1026).....	115.88	
23 21 16 00-0295 EA 3/4" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1027).....	132.56	
23 21 16 00-0296 EA 1" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1028).....	294.40	
<b>23 21 16 00-0297 Vortex Air Separators With Strainer (23 21 16)</b>		
Note: Separators are priced by capacity in gallons per minute and by boiler connection sizes and types.		
23 21 16 00-0298 EA 2" Threaded, 56 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2N) .....	1,124.59	250.54
<i>For 300 PSIG, Add</i>	111.78	
23 21 16 00-0299 EA 2-1/2" Threaded, 90 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2-1/2N) .....	1,379.22	287.00
<i>For 300 PSIG, Add</i>	141.54	
23 21 16 00-0300 EA 3" Threaded, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3N) .....	2,063.46	337.58
<i>For 300 PSIG, Add</i>	232.81	
23 21 16 00-0301 EA 3" Flanged, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3F) .....	2,203.63	357.28
<i>For 300 PSIG, Add</i>	249.35	
23 21 16 00-0302 EA 4" Flanged, 300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-4F) .....	2,851.45	476.38
<i>For 300 PSIG, Add</i>	319.45	
23 21 16 00-0303 EA 5" Flanged, 500 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-5F) .....	3,521.54	529.12
<i>For 300 PSIG, Add</i>	408.08	
23 21 16 00-0304 EA 6" Flanged, 700 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-6F) .....	4,166.28	599.16
<i>For 300 PSIG, Add</i>	488.77	
23 21 16 00-0305 EA 8" Flanged, 1,300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-8F) .....	5,930.77	718.79
<i>For 300 PSIG, Add</i>	726.21	
23 21 16 00-0306 EA 10" Flanged, 2,000 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-10F) .....	9,007.08	817.03
<i>For 300 PSIG, Add</i>	1,165.37	
23 21 16 00-0307 EA 12" Flanged, 2,750 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-12F) .....	12,130.84	1,057.28
<i>For 300 PSIG, Add</i>	1,579.32	
23 21 16 00-0308 EA 14" Flanged, 3400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-14F).....	24,884.45	1,283.91
<i>For 300 PSIG, Add</i>	3,440.87	
23 21 16 00-0309 EA 16" Flanged, 4400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F).....	30,702.13	1,540.69
<i>For 300 PSIG, Add</i>	4,255.16	
23 21 16 00-0310 EA 18" Flanged, 5200 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F).....	39,968.93	1,797.47
<i>For 300 PSIG, Add</i>	5,586.82	
23 21 16 00-0311 EA 20" Flanged, 6300 GPM With Strainer, Vortex Air Separator (Rolairtrol R-20F).....	46,744.59	2,054.26
<i>For 300 PSIG, Add</i>	6,544.81	
<b>23 21 16 00-0312 Vortex Air Separators (23 21 16)</b>		
Note: Without system strainer.		
23 21 16 00-0313 EA 2" Threaded, 56 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2N).....	979.08	250.54
<i>For 300 PSIG, Add</i>	89.95	
23 21 16 00-0314 EA 2-1/2" Threaded, 90 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2-1/2N).....	1,220.48	287.00
<i>For 300 PSIG, Add</i>	117.73	
23 21 16 00-0315 EA 3" Threaded, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3N).....	2,023.77	337.58
<i>For 300 PSIG, Add</i>	226.86	

## 23 Heating, Ventilating, And Air-Conditioning (HVAC)

## 23 20 HVAC Piping And Pumps

## 23 21 Hydronic Piping And Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0316 EA 3" Flanged, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3F).....	1,855.30	357.28
<i>For 300 PSIG, Add</i>	197.10	
23 21 16 00-0317 EA 4" Flanged, 300 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-4F).....	2,485.48	476.38
<i>For 300 PSIG, Add</i>	264.56	
23 21 16 00-0318 EA 5" Flanged, 530 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-5F).....	3,137.93	529.12
<i>For 300 PSIG, Add</i>	350.54	
23 21 16 00-0319 EA 6" Flanged, 850 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-6F).....	3,645.98	599.16
<i>For 300 PSIG, Add</i>	410.72	
23 21 16 00-0320 EA 8" Flanged, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8F).....	9,661.02	718.79
<i>For 300 PSIG, Add</i>	1,285.75	
23 21 16 00-0321 EA 10" Flanged, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10F).....	6,630.48	817.03
<i>For 300 PSIG, Add</i>	808.88	
23 21 16 00-0322 EA 12" Flanged, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12F).....	10,133.99	1,057.28
<i>For 300 PSIG, Add</i>	1,279.79	
23 21 16 00-0323 EA 14" Flanged, 6,100 GPM Vortex Air Separator (Rolairtrol RL-14F).....	17,037.28	1,283.91
<i>For 300 PSIG, Add</i>	2,263.79	
23 21 16 00-0324 EA 16" Flanged, 8,000 GPM Vortex Air Separator (Rolairtrol RL-16F).....	21,548.61	1,540.69
<i>For 300 PSIG, Add</i>	2,882.13	
23 21 16 00-0325 EA 18" Flanged, 9,700 GPM Vortex Air Separator (Rolairtrol RL-18F).....	28,701.67	1,797.47
<i>For 300 PSIG, Add</i>	3,896.73	
23 21 16 00-0326 EA 20" Flanged, 12,000 GPM Vortex Air Separator (Rolairtrol RL-20F).....	39,082.49	2,054.26
<i>For 300 PSIG, Add</i>	5,395.50	
23 21 16 00-0327 EA 22" Flanged, 15,000 GPM Vortex Air Separator (Rolairtrol RL-22F).....	47,775.03	2,311.04
<i>For 300 PSIG, Add</i>	6,641.02	
23 21 16 00-0328 EA 24" Flanged, 17,000 GPM Vortex Air Separator (Rolairtrol RL-24F).....	56,467.58	2,567.82
<i>For 300 PSIG, Add</i>	7,886.54	
<b>23 21 16 00-0329 Grooved, With Strainer, Vortex Air Separators</b> <sup>(23 21 16)</sup>		
23 21 16 00-0330 EA 3" Grooved, 190 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-3G).....	1,918.99	285.82
23 21 16 00-0331 EA 4" Grooved, 300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-4G).....	2,706.74	380.86
23 21 16 00-0332 EA 5" Grooved, 500 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-5G).....	3,361.31	422.92
23 21 16 00-0333 EA 6" Grooved, 700 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-6G).....	3,984.65	479.33
23 21 16 00-0334 EA 8" Grooved, 1,300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-8G).....	5,704.07	575.19
23 21 16 00-0335 EA 10" Grooved, 2,000 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-10G).....	9,103.41	653.62
23 21 16 00-0336 EA 12" Grooved, 2,750 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-12G).....	13,797.22	845.92
<b>23 21 16 00-0337 Grooved Vortex Air Separators</b> <sup>(23 21 16)</sup>		
Note: Without system strainer.		
23 21 16 00-0338 EA 3" Grooved, 190 GPM Vortex Air Separator (Rolairtrol RL-3G).....	1,557.43	285.82
23 21 16 00-0339 EA 4" Grooved, 300 GPM Vortex Air Separator (Rolairtrol RL-4G).....	2,340.77	380.86
23 21 16 00-0340 EA 5" Grooved, 500 GPM Vortex Air Separator (Rolairtrol RL-5G).....	2,977.70	422.92
23 21 16 00-0341 EA 6" Grooved, 850 GPM Vortex Air Separator (Rolairtrol RL-6G).....	3,464.35	479.33
23 21 16 00-0342 EA 8" Grooved, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8G).....	4,601.75	575.19
23 21 16 00-0343 EA 10" Grooved, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10G).....	6,691.53	653.62
23 21 16 00-0344 EA 12" Grooved, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12G).....	11,015.78	845.92
<b>23 21 16 00-0345 Removable Head, Air Eliminator And Dirt Separator</b> <sup>(23 21 16)</sup>		
Note: Spirotherm VDN.		
23 21 16 00-0346 EA 2", 45 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	3,331.34	250.54
23 21 16 00-0347 EA 2-1/2", 70 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	3,611.44	287.00
23 21 16 00-0348 EA 3", 95 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	4,810.16	337.58
23 21 16 00-0349 EA 4", 170 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	5,531.86	517.54
23 21 16 00-0350 EA 5", 260 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	8,051.12	639.86
23 21 16 00-0351 EA 6", 375 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	10,336.18	724.55
23 21 16 00-0352 EA 8", 625 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	16,073.42	163.50
23 21 16 00-0353 EA 10", 950 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	23,656.56	988.02
23 21 16 00-0354 EA 12", 1,400 GPM, Removable Head, Air Eliminator And Dirt Separator (Spirotherm VDN).....	30,576.40	1,278.54
<b>23 21 16 00-0355 Swivel Joints</b> <sup>(23 21 16)</sup>		
<b>23 21 16 00-0356 Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)</b> <sup>(23 21 16 00-0355)</sup>		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0357 EA 1" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	270.69	30.93
23 21 16 00-0358 EA 1-1/2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	389.41	45.28
23 21 16 00-0359 EA 2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	539.91	52.93
23 21 16 00-0360 EA 3" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	811.79	90.57
23 21 16 00-0361 EA 4" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,022.10	102.92
<i>For Stainless Steel, Add</i>	1,224.39	
23 21 16 00-0362 EA 2" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	766.51	156.79
<i>For Stainless Steel, Add</i>	855.71	
23 21 16 00-0363 EA 3" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,031.38	125.09
23 21 16 00-0364 EA 4" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,343.90	335.23
23 21 16 00-0365 EA 6" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	2,418.98	423.44
<b>23 21 16 00-0366 Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)</b> <sup>(23 21 16 00-0355)</sup>		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0367 EA 1" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	339.36 416.18	30.93
23 21 16 00-0368 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	421.84 497.04	45.28
23 21 16 00-0369 EA 2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	563.97 685.56	52.93
23 21 16 00-0370 EA 3" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	909.10 1,092.23	90.57
23 21 16 00-0371 EA 4" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	1,181.02 1,462.77	102.92
23 21 16 00-0372 EA 2" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	788.50 888.69	156.79
23 21 16 00-0373 EA 3" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	1,157.33 1,360.61	125.09
23 21 16 00-0374 EA 4" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	1,489.31 1,603.86	335.23
23 21 16 00-0375 EA 6" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	2,519.40 2,982.32	423.44
<b>23 21 16 00-0376 Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40) (23 21 16 00-0355)</b>		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0377 EA 1" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	396.03 501.18	30.93
23 21 16 00-0378 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	465.09 561.92	45.28
23 21 16 00-0379 EA 2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	672.67 848.61	52.93
23 21 16 00-0380 EA 3" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	1,039.91 1,288.44	90.57
23 21 16 00-0381 EA 4" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	1,224.27 1,527.65	102.92
23 21 16 00-0382 EA 2" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	896.61 1,050.86	156.79
23 21 16 00-0383 EA 3" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	1,291.39 1,561.70	125.09
23 21 16 00-0384 EA 4" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	1,627.69 1,811.43	335.23
23 21 16 00-0385 EA 6" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	2,816.70 3,428.27	423.44
<b>23 21 16 00-0386 Basket Strainers (23 21 16)</b>		
<b>23 21 16 00-0387 Bronze Body Basket Strainers (23 21 16 00-0386)</b>		
<b>23 21 16 00-0388 Screwed Ends, Bronze Body Basket Strainers (23 21 16 00-0387)</b>		
23 21 16 00-0389 EA 1/2" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	155.57 14.00	23.53
23 21 16 00-0390 EA 3/4" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	183.67 16.45	27.64
23 21 16 00-0391 EA 1" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	214.10 19.60	32.93
23 21 16 00-0392 EA 1-1/4" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	261.47 21.86	36.46
23 21 16 00-0393 EA 1-1/2" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	306.47 24.68	41.16
23 21 16 00-0394 EA 2" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	439.42 28.26	47.05
23 21 16 00-0395 EA 2-1/2" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	617.31 37.85	62.93
23 21 16 00-0396 EA 3" Screwed Ends, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	842.05 40.15	67.04
<b>23 21 16 00-0397 Flanged, Bronze Body Basket Strainers (23 21 16 00-0387)</b>		
23 21 16 00-0398 EA 2" Flanged, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	719.21 58.81	156.79
23 21 16 00-0399 EA 2-1/2" Flanged, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,032.42 64.16	170.55
23 21 16 00-0400 EA 3" Flanged, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,175.59 75.08	199.96
23 21 16 00-0401 EA 4" Flanged, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,986.01 126.02	335.22
23 21 16 00-0402 EA 6" Flanged, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,535.56 131.78	350.16
23 21 16 00-0403 EA 8" Flanged, Bronze Body Basket Strainer..... <i>For Work In Restricted Working Space, Add</i>	6,303.51 166.74	447.42
<b>23 21 16 00-0404 Iron Body Basket Strainers (23 21 16 00-0386)</b>		
<b>23 21 16 00-0405 Screwed Ends, Iron Body Basket Strainers (23 21 16 00-0404)</b>		

**23 Heating, Ventilating, And Air-Conditioning (HVAC)**

**23 20 HVAC Piping And Pumps**

**23 21 Hydronic Piping And Pumps**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	16 00-0406	EA	1/2" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	184.31 14.00	23.53
23 21	16 00-0407	EA	3/4" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	208.90 16.45	27.64
23 21	16 00-0408	EA	1" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	247.18 19.60	32.93
23 21	16 00-0409	EA	1-1/4" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	316.56 21.86	36.46
23 21	16 00-0410	EA	1-1/2" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	348.70 24.68	41.16
23 21	16 00-0411	EA	2" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	412.42 28.26	47.05
23 21	16 00-0412	EA	2-1/2" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	580.76 37.85	62.93
23 21	16 00-0413	EA	3" Screwed Ends, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	651.55 40.15	67.04
<b>23 21 16 00-0414 Flanged, Iron Body Basket Strainers (23 21 16 00-0404)</b>					
23 21	16 00-0415	EA	2" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	600.31 58.81	156.79
23 21	16 00-0416	EA	2-1/2" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	758.75 64.16	170.55
23 21	16 00-0417	EA	3" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	830.31 75.08	199.96
23 21	16 00-0418	EA	4" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,293.07 126.02	335.22
23 21	16 00-0419	EA	6" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,138.39 131.78	350.16
23 21	16 00-0420	EA	8" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	3,690.40 166.74	447.42
23 21	16 00-0421	EA	10" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	5,397.40 204.26	544.69
23 21	16 00-0422	EA	12" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	6,968.65 411.98	686.70
23 21	16 00-0423	EA	14" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	8,032.82 291.80	778.13
23 21	16 00-0424	EA	16" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	8,452.33 320.98	855.94
<b>23 21 16 00-0425 Cast Steel Body Basket Strainers (23 21 16 00-0386)</b>					
<b>23 21 16 00-0426 Screwed Ends, Cast Steel Body Basket Strainers (23 21 16 00-0425)</b>					
23 21	16 00-0427	EA	1" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	366.98 19.60	32.93
23 21	16 00-0428	EA	1-1/4" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	475.48 21.86	36.46
23 21	16 00-0429	EA	1-1/2" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	535.97 24.67	41.16
23 21	16 00-0430	EA	2" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	739.64 28.25	47.05
23 21	16 00-0431	EA	2-1/2" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,033.63 37.85	62.93
23 21	16 00-0432	EA	3" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,322.51 40.15	67.04
<b>23 21 16 00-0433 Flanged, Cast Steel Body Basket Strainers (23 21 16 00-0425)</b>					
23 21	16 00-0434	EA	2" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,135.48 58.81	156.79
23 21	16 00-0435	EA	2-1/2" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,587.87 64.16	170.55
23 21	16 00-0436	EA	3" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,752.08 75.08	199.96
23 21	16 00-0437	EA	4" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,529.01 126.02	335.22
23 21	16 00-0438	EA	6" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	4,241.75 131.78	350.16
23 21	16 00-0439	EA	8" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	6,786.77 166.74	447.42
<b>23 21 16 00-0440 Stainless Steel Body Basket Strainers (23 21 16 00-0386)</b>					
<b>23 21 16 00-0441 Screwed Ends, Stainless Steel Body Basket Strainers (23 21 16 00-0440)</b>					
23 21	16 00-0442	EA	1" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	332.18 19.60	32.93
23 21	16 00-0443	EA	1-1/4" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	467.84 21.86	36.46
23 21	16 00-0444	EA	1-1/2" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	486.46 24.67	41.16





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0445 EA 2" Screwed Ends, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	705.81 28.25	47.05
23 21 16 00-0446 EA 2-1/2" Screwed Ends, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	994.05 37.85	62.93
23 21 16 00-0447 EA 3" Screwed Ends, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	1,382.19 40.15	67.04
<b>23 21 16 00-0448 Flanged, Stainless Steel Body Basket Strainers</b> <small>(23 21 16 00-0440)</small>		
23 21 16 00-0449 EA 2" Flanged, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	1,106.21 58.81	156.79
23 21 16 00-0450 EA 2-1/2" Flanged, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	1,631.30 64.16	170.55
23 21 16 00-0451 EA 3" Flanged, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	1,851.32 75.08	199.96
23 21 16 00-0452 EA 4" Flanged, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	3,128.13 126.02	335.22
23 21 16 00-0453 EA 6" Flanged, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	4,666.49 131.78	350.16
23 21 16 00-0454 EA 8" Flanged, Stainless Steel Body Basket Strainer ..... <i>For Work In Restricted Working Space, Add</i>	8,006.28 166.74	447.42
<b>23 21 16 00-0455 Air Vents</b> <small>(23 21 16)</small>		
<b>23 21 16 00-0456 Screwed Ends, Cast Iron, Automatic Air Vents</b> <small>(23 21 16 00-0455)</small>		
<i>Note: With guided free floating lever.</i>		
23 21 16 00-0457 EA 1/2" NPT, Cast Iron, Automatic Air Vent .....	218.15	34.11
23 21 16 00-0458 EA 3/4" NPT, Cast Iron, Automatic Air Vent .....	269.46	45.28
23 21 16 00-0459 EA 1" NPT, Cast Iron, Automatic Air Vent .....	567.87	47.05
23 21 16 00-0460 EA 1-1/4" NPT, Cast Iron, Automatic Air Vent .....	844.36	72.69
23 21 16 00-0461 EA 1-1/2" NPT, Cast Iron, Automatic Air Vent .....	1,372.44	78.22
23 21 16 00-0462 EA 2" NPT, Cast Iron, Automatic Air Vent .....	1,586.91	103.15
<b>23 21 16 00-0463 Forged Steel, Stainless Steel Internals, Automatic Air Vents</b> <small>(23 21 16 00-0455)</small>		
<i>Note: With guided free floating lever.</i>		
23 21 16 00-0464 EA 1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....	1,285.27	39.40
23 21 16 00-0465 EA 3/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....	1,607.73	45.28
23 21 16 00-0466 EA 1" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....	1,913.05	47.05
23 21 16 00-0467 EA 1-1/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....	3,135.28	72.93
23 21 16 00-0468 EA 1-1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....	3,616.81	78.22
23 21 16 00-0469 EA 2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent .....	5,308.08	102.92
<b>23 21 16 00-0470 Automatic Air Vent</b> <small>(23 21 16 00-0455)</small>		
23 21 16 00-0471 EA 3/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....	174.59	45.28
23 21 16 00-0472 EA 1" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....	188.89	47.05
23 21 16 00-0473 EA 1-1/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....	272.93	72.69
23 21 16 00-0474 EA 1-1/2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....	326.82	78.22
23 21 16 00-0475 EA 2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR) .....	402.89	84.29
<b>23 21 16 00-0476 Manual Air Vent</b> <small>(23 21 16 00-0455)</small>		
23 21 16 00-0477 EA Manual Air Vent .....	79.06	42.46
<b>23 21 16 00-0478 Air Release Valves</b> <small>(23 21 16 00-0455)</small>		
<b>23 21 16 00-0479 Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)</b> <small>(23 21 16 00-0478)</small>		
<i>Note: Up to 175 psi. Stainless steel float.</i>		
23 21 16 00-0480 EA 1/2" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) .....	152.06	17.65
23 21 16 00-0481 EA 3/4" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) .....	156.77	20.00
23 21 16 00-0482 EA 1" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) .....	166.18	24.70
<b>23 21 16 00-0483 Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200)</b> <small>(23 21 16 00-0478)</small>		
<i>Note: Up to 175 psi. Stainless steel float.</i>		
23 21 16 00-0484 EA 1" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200A).....	595.13	24.70
23 21 16 00-0485 EA 2" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200).....	721.68	42.93
23 21 16 00-0486 EA 3" Flanged, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200).....	950.03	100.10
<b>23 21 16 00-0487 Cast Iron, Air/Vacuum Valves</b> <small>(23 21 16 00-0478)</small>		
<i>Note: Up to 150 psi. Stainless steel float.</i>		
23 21 16 00-0488 EA 1/2" NPT, Cast Iron, Air/Vacuum Valve (Apco 141) .....	291.09	17.65
23 21 16 00-0489 EA 1" NPT, Cast Iron, Air/Vacuum Valve (Apco 142) .....	360.82	24.70
23 21 16 00-0490 EA 2" NPT, Cast Iron, Air/Vacuum Valve (Apco 144) .....	623.43	42.93
23 21 16 00-0491 EA 3" Flanged, Cast Iron, Air/Vacuum Valve (Apco 146) .....	905.54	100.10
23 21 16 00-0492 EA 4" Flanged, Cast Iron, Air/Vacuum Valve (Apco 152) .....	1,420.51	168.03
23 21 16 00-0493 EA 6" Flanged, Cast Iron, Air/Vacuum Valve (Apco 153) .....	2,147.11	212.48

**23 Heating, Ventilating, And Air-Conditioning (HVAC)**

**23 20 HVAC Piping And Pumps**

**23 21 Hydronic Piping And Pumps**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**23 21 16 00-0494 Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice** (23 21 16 00-0478)

Note: Up to 150 psi. Stainless Steel float.

23 21 16 00-0495	EA		1" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 143C).....	516.53	24.70
23 21 16 00-0496	EA		2" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 145C).....	795.83	42.93
23 21 16 00-0497	EA		3" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 147C).....	1,452.38	100.10
23 21 16 00-0498	EA		4" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 149C).....	1,896.91	168.03

**23 21 23 Hydronic Pumps** (23 21)

**23 21 23 13 In-Line Centrifugal Hydronic Pumps** (23 21 23)

**23 21 23 13-0001 Cast Iron Single Stage In-Line Centrifugal Pump** (23 21 23 13)

Note: For general service, 125 LB flanged, 3550 RPM TEFC motor. Includes packed stuffing boxes and ductile iron case.

23 21 23 13-0002	EA		50 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 100' Head And 3 HP.....	3,262.19	313.97
			<i>For Mechanical Seal, Add</i>	185.66	
			<i>For Cast Steel Case, Add</i>	417.73	
23 21 23 13-0003	EA		75 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 100' Head And 5 HP.....	3,627.52	380.02
			<i>For Mechanical Seal, Add</i>	199.03	
			<i>For Cast Steel Case, Add</i>	447.82	
23 21 23 13-0004	EA		100 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 150' Head And 7-1/2 HP.....	4,214.07	451.47
			<i>For Mechanical Seal, Add</i>	228.86	
			<i>For Cast Steel Case, Add</i>	514.93	
23 21 23 13-0005	EA		125 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 150' Head And 10 HP.....	4,742.32	601.96
			<i>For Mechanical Seal, Add</i>	235.03	
			<i>For Cast Steel Case, Add</i>	528.82	
23 21 23 13-0006	EA		150 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 200' Head And 15 HP.....	5,546.28	656.09
			<i>For Mechanical Seal, Add</i>	286.22	
			<i>For Cast Steel Case, Add</i>	644.00	
23 21 23 13-0007	EA		200 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 300' Head And 30 HP.....	7,835.37	722.13
			<i>For Mechanical Seal, Add</i>	453.60	
			<i>For Cast Steel Case, Add</i>	1,020.61	
23 21 23 13-0008	EA		250 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 300' Head And 40 HP.....	9,302.35	901.86
			<i>For Mechanical Seal, Add</i>	527.66	
			<i>For Cast Steel Case, Add</i>	1,187.22	
23 21 23 13-0009	EA		300 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 300' Head And 50 HP.....	8,300.51	1,030.70
			<i>For Mechanical Seal, Add</i>	416.58	
			<i>For Cast Steel Case, Add</i>	937.29	
23 21 23 13-0010	EA		400 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 400' Head And 75 HP.....	15,337.15	1,008.65
			<i>For Mechanical Seal, Add</i>	984.89	
			<i>For Cast Steel Case, Add</i>	2,216.00	
23 21 23 13-0011	EA		600 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 400' Head And 100 HP.....	17,073.51	1,296.56
			<i>For Mechanical Seal, Add</i>	1,054.63	
			<i>For Cast Steel Case, Add</i>	2,372.92	

**23 21 23 16 Base-Mounted, Centrifugal Hydronic Pumps** (23 21 23)

See CSI section 26 29 23 00-0000 for variable frequency motor controllers.

**23 21 23 16-0001 Single Stage, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump** (23 21 23 16)

Note: 1800 RPM, welded steel baseplate, internally flushed mechanical seal, bronze wear ring, galvanized drip pan, and 3 phase 230/460V premium efficiency motor. Bell & Gossett 1510 Series.

23 21 23 16-0002	EA		5 HP, 50 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/4 BC, BF, 184T).....	3,855.70	343.20
23 21 23 16-0003	EA		7.5 HP, 100 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/2 BC, BF, 213T).....	4,291.02	343.63
23 21 23 16-0004	EA		10 HP, 225 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 215T).....	5,623.30	451.47
23 21 23 16-0005	EA		15 HP, 250 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 254T).....	6,245.85	555.41
23 21 23 16-0006	EA		15 HP, 300 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 G, BF, 254T).....	6,900.17	555.41
23 21 23 16-0007	EA		20 HP, 350 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 E, BF, 256T).....	6,796.36	601.96
23 21 23 16-0008	EA		20 HP, 500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 256T).....	7,168.37	601.96
23 21 23 16-0009	EA		25 HP, 600 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 284T).....	7,821.31	631.20
23 21 23 16-0010	EA		30 HP, 750 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 286T).....	8,815.27	802.25
23 21 23 16-0011	EA		40 HP, 1,050 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 324T).....	9,402.75	901.86
23 21 23 16-0012	EA		60 HP, 1,500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 6 E, BF, 364T).....	15,056.96	1,943.23
23 21 23 16-0013	EA		75 HP, 2,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 365T).....	21,184.66	2,331.47
23 21 23 16-0014	EA		100 HP, 3,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 404TS).....	24,384.44	2,914.33

**23 21 23 16-0015 Single Stage, Vertical Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump** (23 21 23 16)

Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.

23 21 23 16-0016	EA		40 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 1-1/2 HP.....	1,600.59	252.26
			<i>For 300 LB Flanges, Add</i>	286.42	
23 21 23 16-0017	EA		50 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 2 HP.....	1,793.52	270.66
			<i>For 300 LB Flanges, Add</i>	346.88	
23 21 23 16-0018	EA		90 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 3 HP.....	2,208.89	289.07
			<i>For 300 LB Flanges, Add</i>	431.93	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0019 EA 100 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 5 HP ..... <i>For 300 LB Flanges, Add</i>	2,657.72 509.76	343.20
23 21 23 16-0020 EA 150 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 7.5 HP ..... <i>For 300 LB Flanges, Add</i>	2,792.35 535.69	343.63
23 21 23 16-0021 EA 200 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 10 HP ..... <i>For 300 LB Flanges, Add</i>	3,150.39 584.60	451.47
23 21 23 16-0022 EA 225 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 10 HP ..... <i>For 300 LB Flanges, Add</i>	3,150.39 584.60	451.47
23 21 23 16-0023 EA 250 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 10 HP ..... <i>For 300 LB Flanges, Add</i>	3,150.39 584.60	451.47
23 21 23 16-0024 EA 300 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 15 HP ..... <i>For 300 LB Flanges, Add</i>	3,849.82 712.61	555.41
23 21 23 16-0025 EA 350 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 15 HP ..... <i>For 300 LB Flanges, Add</i>	3,944.61 726.23	554.98
23 21 23 16-0026 EA 500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 20 HP ..... <i>For 300 LB Flanges, Add</i>	4,139.26 764.15	601.96
23 21 23 16-0027 EA 600 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 25 HP ..... <i>For 300 LB Flanges, Add</i>	4,515.43 836.56	631.20
23 21 23 16-0028 EA 750 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 30 HP ..... <i>For 300 LB Flanges, Add</i>	5,204.68 940.28	802.25
23 21 23 16-0029 EA 1,050 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 40 HP ..... <i>For 300 LB Flanges, Add</i>	5,885.03 1,065.26	901.86
23 21 23 16-0030 EA 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 60 HP ..... <i>For 300 LB Flanges, Add</i>	10,194.61 1,611.90	1,943.23
23 21 23 16-0031 EA 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 75 HP ..... <i>For 300 LB Flanges, Add</i>	12,181.72 1,921.33	2,331.47
23 21 23 16-0032 EA 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 100 HP ..... <i>For 300 LB Flanges, Add</i>	14,814.41 2,298.48	2,914.33
<b>23 21 23 16-0033 Single Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump</b> <small>(23 21 23 16)</small>		
Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.		
23 21 23 16-0034 EA 40 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 1-1/2" HP..... <i>For 300 LB Flanges, Add</i>	2,165.09 427.55	252.26
23 21 23 16-0035 EA 50 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 2 HP..... <i>For 300 LB Flanges, Add</i>	2,247.62 440.09	270.66
23 21 23 16-0036 EA 90 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 3 HP..... <i>For 300 LB Flanges, Add</i>	2,330.29 452.65	289.07
23 21 23 16-0037 EA 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 5 HP..... <i>For 300 LB Flanges, Add</i>	2,491.68 489.81	295.57
23 21 23 16-0038 EA 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 7.5 HP..... <i>For 300 LB Flanges, Add</i>	3,756.07 784.35	343.20
23 21 23 16-0039 EA 250 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 10 HP..... <i>For 300 LB Flanges, Add</i>	4,860.73 1,039.65	451.47
23 21 23 16-0040 EA 350 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 15 HP..... <i>For 300 LB Flanges, Add</i>	5,078.49 1,066.62	487.19
23 21 23 16-0041 EA 500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 20 HP..... <i>For 300 LB Flanges, Add</i>	5,544.45 1,136.27	541.33
23 21 23 16-0042 EA 750 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 25 HP..... <i>For 300 LB Flanges, Add</i>	5,893.46 1,246.41	504.81
23 21 23 16-0043 EA 1,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 40 HP..... <i>For 300 LB Flanges, Add</i>	6,783.67 1,404.12	648.76
23 21 23 16-0044 EA 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 50 HP..... <i>For 300 LB Flanges, Add</i>	8,610.71 1,777.98	777.50
23 21 23 16-0045 EA 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 75 HP..... <i>For 300 LB Flanges, Add</i>	9,923.61 2,012.53	971.10
23 21 23 16-0046 EA 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 100 HP..... <i>For 300 LB Flanges, Add</i>	13,636.10 2,846.98	1,165.73
23 21 23 16-0047 EA 3,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 150 HP..... <i>For 300 LB Flanges, Add</i>	23,833.08 5,333.77	1,294.79
23 21 23 16-0048 EA 4,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 200 HP..... <i>For 300 LB Flanges, Add</i>	25,994.19 5,695.62	1,665.33
<b>23 21 23 16-0049 Two Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump</b> <small>(23 21 23 16)</small>		
Note: 3500 RPM drip-proof motor, common base plate 500' head. Packed stuffing box and boiler feed water service.		
23 21 23 16-0050 EA 100 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 40 HP..... <i>For 300 LB Flanges, Add</i>	6,948.35 1,487.24	555.41
23 21 23 16-0051 EA 200 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 50 HP..... <i>For 300 LB Flanges, Add</i>	7,527.01 1,611.09	601.96
23 21 23 16-0052 EA 300 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 75 HP..... <i>For 300 LB Flanges, Add</i>	9,131.21 1,934.87	759.85
23 21 23 16-0053 EA 400 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 100 HP..... <i>For 300 LB Flanges, Add</i>	16,982.91 3,767.32	1,044.10
23 21 23 16-0054 EA 800 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 200 HP..... <i>For 300 LB Flanges, Add</i>	21,052.68 4,625.29	1,392.15
<b>23 21 23 16-0055 Cast Iron Close Coupling Pumps</b> <small>(23 21 23 16)</small>		

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0056			<b>Foot Mounted Cast Iron Close Coupled Pumps</b> (23 21 23 16-0056)		
23 21 23 16-0057	EA		3 HP, 90 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 1-1/2 AC, BF, 182JM).....	3,475.51	324.80
23 21 23 16-0058	EA		3 HP, 150 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 AB, BF, 182JM).....	3,743.12	324.80
23 21 23 16-0059	EA		5 HP, 225 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 BB, BF, 184JM).....	4,136.90	342.85
23 21 23 16-0060	EA		5 HP, 350 GPM At 25' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 184JM).....	4,373.63	342.85
23 21 23 16-0061	EA		7.5 HP, 350 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 213JM).....	4,980.62	360.52
23 21 23 16-0062	EA		10 HP, 600 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 5 A, BF, 215JM).....	5,825.45	405.27
23 21 23 16-0063	EA		15 HP, 1,000 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 254JP).....	7,605.83	499.26
23 21 23 16-0064	EA		20 HP, 1,350 GPM At 30' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 256JP).....	8,149.59	540.37
23 21 23 16-0065	EA		25 HP, 1,550 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 284JP).....	9,384.98	583.59
23 21 23 16-0066			<b>Pumps, Polypropylene Body, Housing And Impeller, 115/230 Volt</b> (23 21 23 16)		
23 21 23 16-0067	EA		1/3 HP, Centrifugal Pump, Polypropylene Body.....	917.95	167.85
23 21 23 16-0068	EA		1/2 HP, Centrifugal Pump, Polypropylene Body.....	978.26	177.96
23 21 23 16-0069	EA		3/4 HP, Centrifugal Pump, Polypropylene Body.....	1,123.53	189.49
23 21 23 23			<b>Vertical-Turbine Hydronic Pumps</b> (23 21 23)		
			See CSI section 26 29 23 00-0000 for variable frequency motor controllers.		
23 21 23 23-0001			<b>Cast Iron, Bronze Fitted Vertical Turbine Wet Sump Pumps</b> (23 21 23 23)		
			Note: For water supply, cooling towers and process liquids. Multi-stage 1750 RPM drip-proof motor. For 1' to 5' sump depth.		
23 21 23 23-0002	EA		50 GPM Cast Iron Turbine Pump, 3" Discharge 100' Head, 10 Stage, 2 HP.....	4,730.94	802.25
			For Each Extra Column Assembly <60", Add	426.59	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	141.12	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	93.81	
23 21 23 23-0003	EA		100 GPM Cast Iron Turbine Pump, 4" Discharge 100' Head, 7 Stage, 3 HP.....	4,883.21	901.86
			For Each Extra Column Assembly <60", Add	439.16	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	146.82	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	97.99	
23 21 23 23-0004	EA		250 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 5 Stage, 15 HP.....	5,710.85	777.50
			For Each Extra Column Assembly <60", Add	512.63	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	172.68	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	115.57	
23 21 23 23-0005	EA		500 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 3 Stage, 25 HP.....	6,070.92	897.20
			For Each Extra Column Assembly <60", Add	543.32	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	185.19	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	124.48	
23 21 23 23-0006	EA		1,000 GPM Cast Iron Turbine Pump, 8" Discharge 150' Head, 2 Stage, 50 HP.....	7,141.48	971.10
			For Each Extra Column Assembly <60", Add	633.77	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	223.21	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	151.79	
23 21 23 23-0007	EA		2,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 3 Stage, 100 HP.....	10,448.99	1,165.73
			For Each Extra Column Assembly <60", Add	910.86	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	343.02	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	238.53	
23 21 23 23-0008	EA		3,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 2 Stage, 150 HP.....	12,652.27	1,457.17
			For Each Extra Column Assembly <60", Add	1,105.86	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	412.42	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	285.89	
23 21 23 23-0009	EA		4,000 GPM Cast Iron Turbine Pump, 12" Discharge 150' Head, 2 Stage, 200 HP.....	18,688.16	1,665.33
			For Each Extra Column Assembly <60", Add	1,602.11	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	640.47	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	453.59	
23 21 23 23-0010	EA		6,000 GPM Cast Iron Turbine Pump, 14" Discharge 150' Head, 2 Stage, 300 HP.....	23,937.22	1,943.23
			For Each Extra Column Assembly <60", Add	2,039.88	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	832.59	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	593.22	
23 21 23 23-0011	EA		10,000 GPM Cast Iron Turbine Pump, 18" Discharge 100' Head, 2 Stage, 300 HP.....	32,594.99	2,331.47
			For Each Extra Column Assembly <60", Add	2,757.48	
			For Basket Strainer, Galvanized. Steel Pipe Sizes 3" To 8", Add	1,153.92	
			For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	827.97	
23 21 29			<b>Automatic Condensate Pump Units</b> (23 21)		
23 21 29 00-0001			<b>Automatic Shallow Pan Condensate Pump</b> (23 21 29)		
23 21 29 00-0002	EA		1/150 HP, 205 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 1-ABS).....	179.95	35.19
23 21 29 00-0003	EA		1/40 HP, 300 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 2-ABS).....	193.66	35.19
23 21 29 00-0004	EA		1/12 HP, 310 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 3-ABS).....	294.68	40.60
23 21 29 00-0005			<b>Automatic Condensate Pump With Tank</b> (23 21 29)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 29 00-0006 EA 1/20 HP Automatic Condensate Pump With Tank (Hartell KT-15-1UL) .....	102.66	27.07
23 21 29 00-0007 EA 1/30 HP Automatic Condensate Pump With Tank (Little Giant VCMX-20) .....	108.51	27.07
23 21 29 00-0008 EA 1/50 HP, 200 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-14ULS) .....	175.46	35.19
23 21 29 00-0009 EA 1/18 HP, 270 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-24ULS) .....	190.78	40.60
23 21 29 00-0010 EA 1/5 HP, 450 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-45ULS) .....	337.40	46.02
Condensate Pump .....		

**23 22 Steam And Condensate Piping And Pumps** (23 20)

**23 22 13 Steam and Condensate Heating Piping** (23 22)

23 22 13 00-0001 Ric-Wil System Pipe And Casing (23 22 13)  
 Note: Larger pipe size is usually for the condensate return. Perma, Ric-Wil or Thermoac.

23 22 13 00-0002 **Steam Pipe** (23 22 13 00-0001)  
 Note: Includes condensate return.

23 22 13 00-0003 LF 1-1/4" And 1-1/2" Ric-Wil Pipe, 10" Case Steam Pipe With Condensate Return .....	81.89	15.29
23 22 13 00-0004 LF 1-1/4" And 2" Ric-Wil Pipe, 10" Case Steam Pipe With Condensate Return .....	87.90	17.47
23 22 13 00-0005 LF 1-1/2" And 3" Ric-Wil Pipe, 10" Case Steam Pipe With Condensate Return .....	100.82	19.65
23 22 13 00-0006 LF 3" And 6" Ric-Wil Pipe, 15" Case Steam Pipe With Condensate Return .....	154.91	30.58
23 22 13 00-0007 LF 4" And 8" Ric-Wil Pipe, 16-1/2" Case Steam Pipe With Condensate Return .....	203.67	41.50

23 22 13 00-0008 **Steam Or Condensate Pipe** (23 22 13 00-0001)

Note: Excludes return.

23 22 13 00-0009 LF 2" Steam Or Condensate Pipe, 6" Case With No Return Line .....	67.31	9.83
23 22 13 00-0010 LF 2" Steam Or Condensate Pipe, 8" Case With No Return Line .....	71.65	10.92
23 22 13 00-0011 LF 3" Steam Or Condensate Pipe, 8" Case With No Return Line .....	83.93	13.10
23 22 13 00-0012 LF 4" Steam Or Condensate Pipe, 10" Case With No Return Line .....	110.79	19.65
23 22 13 00-0013 LF 6" Steam Or Condensate Pipe, 11-1/2" Case With No Return Line .....	151.65	29.49

**23 22 16 Steam And Condensate Heating Piping Specialties** (23 22)

23 22 16 00-0001 **Steam Temperature Regulator, Iron Body** (23 22 16)

23 22 16 00-0002 **Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body** (23 22 16 00-0001)  
 Note: Up to 150 PSI.

23 22 16 00-0003 EA 1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	591.69	16.93
23 22 16 00-0004 EA 3/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	628.89	22.82
23 22 16 00-0005 EA 1" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	831.87	28.10
23 22 16 00-0006 EA 1-1/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	924.06	35.52
23 22 16 00-0007 EA 1-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	953.99	40.80
23 22 16 00-0008 EA 2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	1,122.38	44.37
23 22 16 00-0009 EA 2-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	1,461.01	81.28
23 22 16 00-0010 EA 3" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	1,624.16	88.63
23 22 16 00-0011 EA 4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	2,490.22	207.47
23 22 16 00-0012 EA 6" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	3,997.27	243.51

23 22 16 00-0013 **Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body** (23 22 16 00-0001)

23 22 16 00-0014 EA 1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	866.67	16.93
23 22 16 00-0015 EA 3/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	904.29	22.82
23 22 16 00-0016 EA 1" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	950.13	28.10
23 22 16 00-0017 EA 1-1/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	1,139.53	35.52
23 22 16 00-0018 EA 1-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	1,224.54	40.80
23 22 16 00-0019 EA 2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	1,388.06	44.37
23 22 16 00-0020 EA 2-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	2,144.67	81.28
23 22 16 00-0021 EA 3" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	2,199.94	88.63
23 22 16 00-0022 EA 4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	3,165.22	207.47
23 22 16 00-0023 EA 6" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	4,982.16	243.51

23 22 16 00-0024 **Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body** (23 22 16 00-0001)

23 22 16 00-0025 EA 1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	1,173.27	16.93
23 22 16 00-0026 EA 3/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	1,197.52	22.82
23 22 16 00-0027 EA 1" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	1,314.64	28.10
23 22 16 00-0028 EA 1-1/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	1,437.62	35.52
23 22 16 00-0029 EA 1-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	1,495.09	40.80
23 22 16 00-0030 EA 2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	1,684.54	44.37
23 22 16 00-0031 EA 2-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	3,116.70	81.28
23 22 16 00-0032 EA 3" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	3,062.86	88.63
23 22 16 00-0033 EA 4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	4,010.11	207.47
23 22 16 00-0034 EA 6" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body .....	5,556.43	243.51

**23 Heating, Ventilating, And Air-Conditioning (HVAC)**

**23 20 HVAC Piping And Pumps**

**23 22 Steam And Condensate Piping And Pumps**



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>23 22 16 00-0035</b>		<b>Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body <small>(23 22 16 00-0001)</small></b>		
23 22 16 00-0036	EA	1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,497.28	16.93
23 22 16 00-0037	EA	3/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,519.91	22.82
23 22 16 00-0038	EA	1" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,654.85	28.10
23 22 16 00-0039	EA	1-1/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,732.45	35.52
23 22 16 00-0040	EA	1-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,804.51	40.80
23 22 16 00-0041	EA	2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	1,964.80	44.37
23 22 16 00-0042	EA	2-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,278.70	81.28
23 22 16 00-0043	EA	3" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,213.20	88.63
23 22 16 00-0044	EA	4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,160.45	207.47
23 22 16 00-0045	EA	6" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	5,706.77	243.51

**23 22 16 00-0046** **High Temperature Safety Relief Valve (23 22 16)**  
Note: Used in steam or water boiler, heating systems and unfired pressure vessel applications.

**23 22 16 00-0047** **Cast Iron Body Safety Valve, Steam Or Water (23 22 16 00-0046)**  
Note: Variable set points to 500 psig pressure, 400 Degree F temperature range.

<b>23 22 16 00-0048</b>		<b>Threaded <small>(23 22 16 00-0047)</small></b>		
23 22 16 00-0049	EA	3/4" x 1" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	253.06	17.64
23 22 16 00-0050	EA	1" x 1-1/4" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	270.45	20.87
23 22 16 00-0051	EA	1-1/4" x 1-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	306.31	26.45
23 22 16 00-0052	EA	1-1/2" x 2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	370.29	29.40
23 22 16 00-0053	EA	2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	470.63	36.16
23 22 16 00-0054	EA	2-1/2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	695.52	41.15
23 22 16 00-0055	EA	3" x 3" Threaded Cast Iron Body Safety Relief Valve, Steam or Water .....	759.39	47.33

<b>23 22 16 00-0056</b>		<b>Flanged <small>(23 22 16 00-0047)</small></b>		
23 22 16 00-0057	EA	1-1/2" x 2-1/2" Flanged Cast Iron Body Safety Relief Valve, Steam or Water .....	1,583.66	123.47
23 22 16 00-0058	EA	2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water .....	1,873.73	185.60
23 22 16 00-0059	EA	2-1/2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	2,045.29	170.81
23 22 16 00-0060	EA	2-1/2" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	2,512.60	246.71
23 22 16 00-0061	EA	3" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	2,624.49	183.99
23 22 16 00-0062	EA	3" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	3,105.46	246.71
23 22 16 00-0063	EA	4" x 6" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	5,151.53	350.11
23 22 16 00-0064	EA	6" x 8" Flanged Cast Iron Body Safety Relief Valve, Steam or Water.....	10,026.16	391.01

**23 22 16 00-0065** **Bronze Body Safety Valve, Threaded, Steam (23 22 16 00-0046)**  
Note: Variable set points to 250 psig pressure, 400 Degree F temperature range. Valve also can be set for Air or Gas with variable set points to 300 psig pressure.

23 22 16 00-0066	EA	3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Steam .....	268.36	16.17
23 22 16 00-0067	EA	3/4" x 1" Threaded Bronze Body Safety Relief Valve, Steam .....	277.38	17.64
23 22 16 00-0068	EA	1" x 1" Threaded Bronze Body Safety Relief Valve, Steam .....	321.80	19.40
23 22 16 00-0069	EA	1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam .....	354.08	20.87
23 22 16 00-0070	EA	1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam .....	408.21	23.52
23 22 16 00-0071	EA	1-1/4" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam.....	416.77	26.45
23 22 16 00-0072	EA	1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam.....	464.54	27.93
23 22 16 00-0073	EA	1-1/2" x 2" Threaded Bronze Body Safety Relief Valve, Steam.....	503.85	29.40
23 22 16 00-0074	EA	2" x 2" Threaded Bronze Body Safety Relief Valve, Steam .....	681.42	32.92
23 22 16 00-0075	EA	2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam .....	745.11	36.16
23 22 16 00-0076	EA	2-1/2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam.....	884.49	41.15

**23 22 16 00-0077** **Bronze Body Safety Valve, Threaded, Water (23 22 16 00-0046)**  
Note: Variable set points to 160 psig pressure, 250 Degree F temperature range.

23 22 16 00-0078	EA	3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Water .....	145.96	16.17
23 22 16 00-0079	EA	3/4" x 1" Threaded Bronze Body Safety Relief Valve, Water .....	164.53	17.64
23 22 16 00-0080	EA	1" x 1" Threaded Bronze Body Safety Relief Valve, Water .....	216.37	19.40
23 22 16 00-0081	EA	1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water.....	237.10	20.87
23 22 16 00-0082	EA	1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water.....	327.64	23.52
23 22 16 00-0083	EA	1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Water.....	433.25	27.93
23 22 16 00-0084	EA	2" x 2" Threaded Bronze Body Safety Relief Valve, Water .....	614.03	32.92

**23 22 16 00-0085** **Steam Traps (23 22 16)**

<b>23 22 16 00-0086</b>		<b>Inverted Bucket Steam Traps <small>(23 22 16 00-0085)</small></b>		
23 22 16 00-0087	EA	1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	240.81	35.28
		<i>For Work In Restricted Working Space, Add</i>	21.17	
23 22 16 00-0088	EA	3/4" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	243.75	36.76
		<i>For Work In Restricted Working Space, Add</i>	22.05	
23 22 16 00-0089	EA	1" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	352.47	39.16
		<i>For Work In Restricted Working Space, Add</i>	23.53	
23 22 16 00-0090	EA	1-1/4" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	563.68	53.46
		<i>For Work In Restricted Working Space, Add</i>	32.08	
23 22 16 00-0091	EA	1-1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	829.94	65.87
		<i>For Work In Restricted Working Space, Add</i>	39.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0092 EA 2" 250 PSI Inverted Bucket Cast Iron Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	1,068.54 58.81	98.01
<b>23 22 16 00-0093 Float And Thermostatic Steam Traps (23 22 16 00-0085)</b>		
23 22 16 00-0094 EA 3/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	254.20 22.05	36.76
23 22 16 00-0095 EA 1" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	328.94 23.53	39.20
23 22 16 00-0096 EA 1-1/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	410.05 32.08	53.46
23 22 16 00-0097 EA 1-1/2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	550.08 39.21	65.34
23 22 16 00-0098 EA 2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	991.89 58.81	97.97
23 22 16 00-0099 EA 3/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	317.11 22.05	36.76
23 22 16 00-0100 EA 1" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	344.16 23.53	39.16
23 22 16 00-0101 EA 1-1/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	451.56 32.08	53.46
23 22 16 00-0102 EA 1-1/2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	641.42 39.21	65.28
23 22 16 00-0103 EA 2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	1,084.62 58.81	98.01
23 22 16 00-0104 EA 3/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	404.31 22.05	36.76
23 22 16 00-0105 EA 1" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	449.35 23.53	39.20
23 22 16 00-0106 EA 1-1/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	679.94 32.08	53.46
23 22 16 00-0107 EA 1-1/2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	703.71 39.21	65.28
23 22 16 00-0108 EA 2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	1,346.21 58.81	98.01
23 22 16 00-0109 EA 3/4" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	409.84 22.05	36.76
23 22 16 00-0110 EA 1" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	449.35 23.53	39.20
23 22 16 00-0111 EA 1-1/4" 150 PSI Max Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	679.94 32.08	53.46
23 22 16 00-0112 EA 1-1/2" 150 PSI Max Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	703.71 39.21	65.28
23 22 16 00-0113 EA 2" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap ..... <i>For Work In Restricted Working Space, Add</i>	1,346.21 58.81	98.01
<b>23 22 16 00-0114 Thermostatic Steam Traps (23 22 16 00-0085)</b>		
23 22 16 00-0115 EA 1/2" 25 PSI Maximum Pressure Thermostatic Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	134.78 21.17	35.28
23 22 16 00-0116 EA 3/4" 25 PSI Maximum Pressure Thermostatic Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	210.52 22.05	36.76
23 22 16 00-0117 EA 1" 25 PSI Maximum Pressure Thermostatic Steam Trap..... <i>For Work In Restricted Working Space, Add</i>	255.90 23.53	39.16
<b>23 22 16 00-0118 Thermodynamic Steam Traps (23 22 16 00-0085)</b>		
23 22 16 00-0119 EA 3/8" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	268.32	31.76
23 22 16 00-0120 EA 1/2" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	372.31	35.28
23 22 16 00-0121 EA 3/4" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	456.90	36.76
23 22 16 00-0122 EA 1" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	605.75	39.16
<b>23 22 16 00-0123 Steam Moisture Separator (23 22 16 00-0085)</b>		
23 22 16 00-0124 EA 1/2" Steam Moisture Separator, Threaded Spirax Sarco S1.....	345.36	58.81
23 22 16 00-0125 EA 3/4" Steam Moisture Separator, Threaded Spirax Sarco S1.....	396.92	79.39
23 22 16 00-0126 EA 1" Steam Moisture Separator, Threaded.....	469.96	89.39
23 22 16 00-0127 EA 1-1/2" Steam Moisture Separator, Threaded.....	567.15	102.34
23 22 16 00-0128 EA 2" Steam Moisture Separator, Flanged.....	756.11	156.79
23 22 16 00-0129 EA 2-1/2" Steam Moisture Separator, Flanged.....	820.44	170.55
23 22 16 00-0130 EA 3" Steam Moisture Separator, Flanged.....	1,071.91	199.96
23 22 16 00-0131 EA 4" Steam Moisture Separator, Flanged.....	1,769.72	335.23
23 22 16 00-0132 EA 6" Steam Moisture Separator, Flanged.....	3,510.34	423.44
<b>23 22 16 00-0133 Steam/Condensate Meter (23 22 16)</b>		
Note: Meter shall be of the rotary volumetric type and sized on the maximum estimated steam demand.		
23 22 16 00-0134 EA 1" Steam/Condensate Meter.....	3,563.14	64.93
<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
<i>For Contactor Used For Dial Counter, Add</i>	567.00	
<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 22 Steam And Condensate Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0135 EA 2" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	4,022.61 1,220.00 567.00 905.00 79.82 64.52	76.30
23 22 16 00-0136 EA 2-1/2" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	4,277.79 1,220.00 567.00 905.00 79.82 64.52	94.69
23 22 16 00-0137 EA 3" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	4,555.68 1,220.00 567.00 905.00 79.82 64.52	124.46
23 22 16 00-0138 EA 4" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	5,085.30 1,220.00 567.00 905.00 79.82 64.52	146.64
23 22 16 00-0139 EA 6" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	10,117.57 1,220.00 567.00 905.00 79.82 64.52	903.68
23 22 16 00-0140 EA 8" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	10,456.88 1,220.00 567.00 905.00 79.82 64.52	958.12
23 22 16 00-0141 EA 10" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	10,870.96 1,220.00 567.00 905.00 79.82 64.52	1,001.31
23 22 16 00-0142 EA 12" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	11,352.19 1,220.00 567.00 905.00 79.82 64.52	1,066.02
23 22 16 00-0143 EA 14" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	12,070.35 1,220.00 567.00 905.00 79.82 64.52	1,158.23
23 22 16 00-0144 EA 16" Steam/Condensate Meter..... For Steam Meter Pressure-Compensated Counter, Add For Contactor Used For Dial Counter, Add For Wall Or Panel Mounted Remote Totalizer With Contactor, Add For Direct Reading Pressure Gauge, Add For Direct Reading Thermometer, Stainless Steel Case With Trim, Add	12,460.05 1,220.00 567.00 905.00 79.82 64.52	1,201.42

**23 22 23 Steam Condensate Pumps (23 22)****23 22 23 13 Electric-Driven Steam Condensate Pumps (23 22 23)****23 22 23 13-0001 Simplex Condensate Pumps And Motors (23 22 23 13)**  
Note: Cast iron receiver, float switch.**23 22 23 13-0002 20 PSI Discharge Pressure (23 22 23 13-0001)**

23 22 23 13-0003 EA 3 To 6 GPM Simplex Condensate Pump And 1/3 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	1,973.79	551.08
23 22 23 13-0004 EA 9 To 12 GPM Simplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	2,507.92	566.24
23 22 23 13-0005 EA 15 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	2,625.20	604.12
23 22 23 13-0006 EA 22.5 GPM Simplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	2,880.27	610.63
23 22 23 13-0007 EA 30 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	3,214.88	664.76
23 22 23 13-0008 EA 37.5 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	4,665.00	664.76
23 22 23 13-0009 EA 45 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	4,749.19	710.23
23 22 23 13-0010 EA 60 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure .....	5,768.88	742.70





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0011 EA 75 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	5,832.57	775.19
<b>23 22 23 13-0012 30 PSI Discharge Pressure (23 22 23 13-0001)</b>		
23 22 23 13-0013 EA 3 To 6 GPM Simplex Condensate Pump And 1/2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	2,256.93	588.97
23 22 23 13-0014 EA 9 To 12 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	2,908.54	604.12
23 22 23 13-0015 EA 15 GPM Simplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	3,023.38	644.19
23 22 23 13-0016 EA 22.5 GPM Simplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	3,487.04	696.15
23 22 23 13-0017 EA 30 To 37.5 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	4,749.19	711.31
23 22 23 13-0018 EA 45 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	4,881.53	736.21
23 22 23 13-0019 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,033.22	775.19
23 22 23 13-0020 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,824.28	824.98
<b>23 22 23 13-0021 40 PSI Discharge Pressure (23 22 23 13-0001)</b>		
23 22 23 13-0022 EA 3 To 6 GPM Simplex Condensate Pump And 1 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	2,519.31	675.58
23 22 23 13-0023 EA 9 To 15 GPM Simplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	3,153.64	729.71
23 22 23 13-0024 EA 22.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	3,676.97	721.06
23 22 23 13-0025 EA 30 To 37.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	4,858.49	736.21
23 22 23 13-0026 EA 45 GPM Simplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	4,964.80	767.61
23 22 23 13-0027 EA 60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	5,832.57	775.19
23 22 23 13-0028 EA 75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	5,922.18	824.98
<b>23 22 23 13-0029 50 PSI Discharge Pressure (23 22 23 13-0001)</b>		
23 22 23 13-0030 EA 3 To 6 GPM Simplex Condensate Pump And 2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	4,640.00	731.88
23 22 23 13-0031 EA 9 To 15 GPM Simplex Condensate Pump And 2 HP Motor With 13.6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	3,403.81	747.04
23 22 23 13-0032 EA 22.5 GPM Simplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	3,890.40	752.45
23 22 23 13-0033 EA 30 To 45 GPM Simplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	5,053.26	818.49
23 22 23 13-0034 EA 60 To 75 GPM Simplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	7,890.83	882.37
<b>23 22 23 13-0035 Duplex Condensate Pumps And Motors (23 22 23 13)</b>		
Note: Cast iron receiver, float switch, alternator assembly.		
<b>23 22 23 13-0036 20 PSI Discharge Pressure (23 22 23 13-0035)</b>		
23 22 23 13-0037 EA 9 To 12 GPM Duplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,222.59	739.46
23 22 23 13-0038 EA 15 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,420.63	812.00
23 22 23 13-0039 EA 22.5 GPM Duplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,724.08	818.49
23 22 23 13-0040 EA 30 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	4,156.94	892.11
23 22 23 13-0041 EA 37.5 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	5,722.24	892.11
23 22 23 13-0042 EA 45 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	5,842.23	961.41
23 22 23 13-0043 EA 60 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	6,893.14	1,003.62
23 22 23 13-0044 EA 75 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	7,069.12	1,053.43
<b>23 22 23 13-0045 30 PSI Discharge Pressure (23 22 23 13-0035)</b>		
23 22 23 13-0046 EA 9 To 12 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	4,143.10	796.84
23 22 23 13-0047 EA 15 GPM Duplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	4,345.55	870.46
23 22 23 13-0048 EA 22.5 GPM Duplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	4,805.84	848.80

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 22 Steam And Condensate Piping And Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0049	EA	30 To 37.5 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure .....	5,842.23	961.41
23 22 23 13-0050	EA	45 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure .....	6,010.40	997.13
23 22 23 13-0051	EA	60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure .....	6,838.76	1,053.43
23 22 23 13-0052	EA	75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure .....	7,182.80	1,129.22
<b>23 22 23 13-0053</b>		<b>40 PSI Discharge Pressure (23 22 23 13-0035)</b>		
23 22 23 13-0054	EA	9 To 15 GPM Duplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure .....	4,511.60	939.75
23 22 23 13-0055	EA	22.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure .....	4,971.70	981.98
23 22 23 13-0056	EA	30 To 37.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure .....	6,024.22	997.13
23 22 23 13-0057	EA	45 GPM Duplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure .....	6,201.37	1,046.94
23 22 23 13-0058	EA	60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure .....	7,070.27	1,053.43
23 22 23 13-0059	EA	75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure .....	7,210.44	1,129.22
<b>23 22 23 13-0060</b>		<b>50 PSI Discharge Pressure (23 22 23 13-0035)</b>		
23 22 23 13-0061	EA	9 To 15 GPM Duplex Condensate Pump And 2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure .....	4,702.80	939.75
23 22 23 13-0062	EA	22.5 GPM Duplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure .....	5,079.74	1,032.86
23 22 23 13-0063	EA	30 To 45 GPM Duplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure .....	6,342.69	1,121.64
23 22 23 13-0064	EA	60 To 75 GPM Duplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure .....	10,877.54	1,214.75
<b>23 23 Refrigerant Piping (23 20)</b>				
<b>23 23 13 Refrigerant Piping Valves (23 23)</b>				
23 23 13 00-0001		<b>Ball Valves (23 23 13)</b>		
23 23 13 00-0002		<b>Refrigeration Ball Valves, Sweat, 1400 Series (23 23 13 00-0001)</b>		
23 23 13 00-0003	EA	3/8" Refrigeration Ball Valve, Sweated .....	40.69	11.75
23 23 13 00-0004	EA	1/2" Refrigeration Ball Valve, Sweated .....	42.59	11.75
23 23 13 00-0005	EA	5/8" Refrigeration Ball Valve, Sweated .....	49.38	11.75
23 23 13 00-0006	EA	7/8" Refrigeration Ball Valve, Sweated .....	66.31	12.93
23 23 13 00-0007	EA	1-1/8" Refrigeration Ball Valve, Sweated .....	87.06	14.70
23 23 13 00-0008	EA	1-5/8" Refrigeration Ball Valve, Sweated .....	135.61	18.10
23 23 13 00-0009		<b>Shut-Off Valves (23 23 13)</b>		
23 23 13 00-0010		<b>Packless (23 23 13 00-0009)</b>		
23 23 13 00-0011	EA	1/2" Refrigeration Valve, Packless .....	40.15	12.23
23 23 13 00-0012	EA	5/8" Refrigeration Valve, Packless .....	47.86	13.41
23 23 13 00-0013	EA	7/8" Refrigeration Valve, Packless .....	87.33	18.35
23 23 13 00-0014		<b>Packed (23 23 13 00-0009)</b>		
23 23 13 00-0015	EA	1-1/8" Refrigeration Valve, Packed .....	148.07	26.70
23 23 13 00-0016	EA	1 3/8" Refrigeration Valve, Packed .....	194.28	32.70
23 23 13 00-0017	EA	1-5/8" Refrigeration Valve, Packed .....	233.03	36.81
23 23 13 00-0018	EA	2-1/8" Refrigeration Valve, Packed .....	320.38	41.99
23 23 13 00-0019	EA	2-5/8" Refrigeration Valve, Packed .....	588.93	117.62
23 23 13 00-0020	EA	3-1/8" Refrigeration Valve, Packed .....	764.05	147.03
23 23 13 00-0021	EA	4-1/8" Refrigeration Valve, Packed .....	1,070.90	196.08
23 23 13 00-0022		<b>Check Valves (23 23 13)</b>		
23 23 13 00-0023	EA	5/8" Check Valve, Refrigeration .....	54.93	11.76
23 23 13 00-0024	EA	7/8" Check Valve, Refrigeration .....	132.30	12.93
23 23 13 00-0025	EA	1-1/8" Check Valve, Refrigeration .....	154.99	14.70
23 23 13 00-0026	EA	1 3/8" Check Valve, Refrigeration .....	205.77	15.65
23 23 13 00-0027	EA	1-5/8" Check Valve, Refrigeration .....	263.26	18.11
23 23 13 00-0028	EA	2-1/8" Check Valve, Refrigeration .....	374.07	21.41
23 23 13 00-0029	EA	2-5/8" Check Valve, Refrigeration .....	525.50	31.41
23 23 13 00-0030	EA	3-1/8" Check Valve, Refrigeration .....	679.74	41.16
23 23 13 00-0031		<b>Solenoid Valves (23 23 13)</b>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>23 23 13 00-0032</b>				<b>Solenoid Valve, 24 Volt Coil</b> (23 23 13 00-0031)		
	EA			1/2" Solenoid Valve, Refrigeration .....	114.93	11.76
	EA			5/8" Solenoid Valve, Refrigeration .....	117.17	11.76
	EA			3/4" Solenoid Valve, Refrigeration .....	147.29	12.93
	EA			7/8" Solenoid Valve, Refrigeration .....	147.29	12.93
	EA			1-1/8" Solenoid Valve, Refrigeration .....	200.63	14.70
	EA			1 3/8" Solenoid Valve, Refrigeration .....	309.99	15.65
	EA			1-5/8" Solenoid Valve, Refrigeration .....	539.63	18.11
	EA			2-1/8" Solenoid Valve, Refrigeration .....	556.08	21.41
<b>23 23 16</b>				<b>Refrigerant Piping Specialties</b> (23 23)		
<b>23 23 16 00-0001</b>				<b>Soft Refrigeration Copper Tubing</b> (23 23 16)		
				Note: Based on outside diameter. Nitrogenized.		
	LF			1/8" Outside Diameter Soft Refrigeration Copper Tubing .....	5.07	3.18
	LF			3/16" Outside Diameter Soft Refrigeration Copper Tubing .....	5.13	3.18
	LF			1/4" Outside Diameter Soft Refrigeration Copper Tubing .....	5.19	3.18
	LF			5/16" Outside Diameter Soft Refrigeration Copper Tubing .....	5.46	3.18
	LF			3/8" Outside Diameter Soft Refrigeration Copper Tubing .....	5.61	3.30
	LF			1/2" Outside Diameter Soft Refrigeration Copper Tubing .....	6.29	3.53
	LF			5/8" Outside Diameter Soft Refrigeration Copper Tubing .....	6.62	3.53
	LF			3/4" Outside Diameter Soft Refrigeration Copper Tubing .....	7.72	4.12
	LF			7/8" Outside Diameter Soft Refrigeration Copper Tubing .....	8.98	4.35
	LF			1-1/8" Outside Diameter Soft Refrigeration Copper Tubing .....	11.36	5.30
	LF			1-3/8" Outside Diameter Soft Refrigeration Copper Tubing .....	15.18	6.12
	LF			1-5/8" Outside Diameter Soft Refrigeration Copper Tubing .....	17.39	6.58
<b>23 23 16 00-0014</b>				<b>Type L Drawn, ACR Copper Tubing</b> (23 23 16)		
				Note: Nitrogenized.		
	LF			3/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	5.85	3.30
				For Medical Applications "Oxygen Clean", Add	0.54	
	LF			1/2" Outside Diameter Type L Drawn, ACR Copper Tubing .....	6.29	3.30
				For Medical Applications "Oxygen Clean", Add	0.57	
	LF			5/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	6.57	3.30
				For Medical Applications "Oxygen Clean", Add	0.58	
	LF			3/4" Outside Diameter Type L Drawn, ACR Copper Tubing .....	9.54	4.94
				For Medical Applications "Oxygen Clean", Add	0.85	
	LF			7/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	10.38	5.30
				For Medical Applications "Oxygen Clean", Add	0.92	
	LF			1-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	11.47	5.30
				For Medical Applications "Oxygen Clean", Add	0.97	
	LF			1-3/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	13.99	6.12
				For Medical Applications "Oxygen Clean", Add	1.16	
	LF			1-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	16.64	7.05
				For Medical Applications "Oxygen Clean", Add	1.36	
	LF			2-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	22.73	8.82
				For Medical Applications "Oxygen Clean", Add	1.80	
	LF			2-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	34.17	13.30
				For Medical Applications "Oxygen Clean", Add	2.71	
	LF			3-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	43.67	16.47
				For Medical Applications "Oxygen Clean", Add	3.42	
	LF			3-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	54.15	19.52
				For Medical Applications "Oxygen Clean", Add	4.18	
	LF			4-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing .....	66.46	23.53
				For Medical Applications "Oxygen Clean", Add	5.09	
<b>23 23 16 00-0028</b>				<b>Refrigeration Fittings</b> (23 23 16)		
<b>23 23 16 00-0029</b>				<b>Brass Flare Fittings</b> (23 23 16 00-0028)		
<b>23 23 16 00-0030</b>				<b>Brass Flare Unions</b> (23 23 16 00-0029)		
	EA			3/8" Brass Flare Union .....	21.99	12.70
	EA			1/2" Brass Flare Union .....	21.99	12.70
	EA			5/8" Brass Flare Union .....	22.76	12.70
<b>23 23 16 00-0034</b>				<b>90 Degree Elbow Brass Flare Unions</b> (23 23 16 00-0029)		
	EA			3/8" 90 Degree Brass Flare Elbow Union .....	22.46	12.70
	EA			1/2" 90 Degree Brass Flare Elbow Union .....	22.46	12.70
	EA			5/8" 90 Degree Brass Flare Elbow Union .....	25.06	12.70
<b>23 23 16 00-0038</b>				<b>Brass Flare Tees</b> (23 23 16 00-0029)		
	EA			3/8" Brass Flare Tee .....	36.21	21.17
	EA			1/2" Brass Flare Tee .....	37.37	21.17
	EA			5/8" Brass Flare Tee .....	43.69	21.17
<b>23 23 16 00-0042</b>				<b>Male Connector, Half Brass Flare Unions</b> (23 23 16 00-0029)		

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 23 Refrigerant Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0043 EA 3/8" Brass Flare Male Connector, Half Union .....	19.85	12.70
23 23 16 00-0044 EA 1/2" Brass Flare Male Connector, Half Union .....	20.63	12.70
23 23 16 00-0045 EA 5/8" Brass Flare Male Connector, Half Union .....	21.74	12.70
<b>23 23 16 00-0046 Female Connector, Half Brass Flare Unions (23 23 16 00-0029)</b>		
23 23 16 00-0047 EA 3/8" Brass Flare Female Connector, Half Union .....	20.85	12.70
23 23 16 00-0048 EA 1/2" Brass Flare Female Connector, Half Union .....	21.91	12.70
23 23 16 00-0049 EA 5/8" Brass Flare Female Connector, Half Union .....	21.91	12.70
<b>23 23 16 00-0050 Long Forged Nuts (23 23 16 00-0029)</b>		
23 23 16 00-0051 EA 3/8" Brass Long Forged Nut.....	20.33	12.70
23 23 16 00-0052 EA 1/2" Brass Long Forged Nut.....	20.63	12.70
23 23 16 00-0053 EA 5/8" Brass Long Forged Nut.....	24.01	12.70
<b>23 23 16 00-0054 Short Forged Nuts (23 23 16 00-0029)</b>		
23 23 16 00-0055 EA 3/8" Brass Short Forged Nut.....	19.89	12.70
23 23 16 00-0056 EA 1/2" Brass Short Forged Nut.....	20.59	12.70
23 23 16 00-0057 EA 5/8" Brass Short Forged Nut.....	20.73	12.70
<b>23 23 16 00-0058 ACR Wrought Copper Fittings (23 23 16 00-0028)</b>		
Note: Soldered.		
<b>23 23 16 00-0059 ACR Wrought Copper Coupling (23 23 16 00-0058)</b>		
Note: C x C		
23 23 16 00-0060 EA 1/4" ACR Wrought Copper Coupling.....	19.68	12.70
23 23 16 00-0061 EA 3/8" ACR Wrought Copper Coupling.....	19.55	12.70
23 23 16 00-0062 EA 1/2" ACR Wrought Copper Coupling.....	19.74	12.70
23 23 16 00-0063 EA 5/8" ACR Wrought Copper Coupling.....	20.60	13.30
23 23 16 00-0064 EA 3/4" ACR Wrought Copper Coupling.....	28.01	17.53
23 23 16 00-0065 EA 7/8" ACR Wrought Copper Coupling.....	28.21	18.00
23 23 16 00-0066 EA 1-1/8" ACR Wrought Copper Coupling.....	36.01	22.35
23 23 16 00-0067 EA 1-3/8" ACR Wrought Copper Coupling.....	50.31	30.58
23 23 16 00-0068 EA 1-5/8" ACR Wrought Copper Coupling.....	59.72	35.88
23 23 16 00-0069 EA 2-1/8" ACR Wrought Copper Coupling.....	74.99	43.52
23 23 16 00-0070 EA 2-5/8" ACR Wrought Copper Coupling.....	121.17	66.11
23 23 16 00-0071 EA 3-1/8" ACR Wrought Copper Coupling.....	160.47	86.92
23 23 16 00-0072 EA 4-1/8" ACR Wrought Copper Coupling.....	223.30	103.27
<b>23 23 16 00-0073 ACR Wrought Copper Short Radius 90 Degree Elbows (23 23 16 00-0058)</b>		
Note: C x C		
23 23 16 00-0074 EA 1/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....	21.34	12.70
23 23 16 00-0075 EA 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	21.47	12.70
23 23 16 00-0076 EA 1/2" ACR Wrought Copper Short Radius 90 Degree Elbow.....	21.34	12.70
23 23 16 00-0077 EA 5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	22.77	13.30
23 23 16 00-0078 EA 3/4" ACR Wrought Copper Short Radius 90 Degree Elbow.....	31.41	17.53
23 23 16 00-0079 EA 7/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	31.98	18.00
23 23 16 00-0080 EA 1-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	40.22	22.35
23 23 16 00-0081 EA 1 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	52.74	30.58
23 23 16 00-0082 EA 1-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	64.57	35.88
23 23 16 00-0083 EA 2-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	84.72	43.52
23 23 16 00-0084 EA 2-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	138.16	66.11
23 23 16 00-0085 EA 3-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	179.49	86.92
23 23 16 00-0086 EA 4-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow.....	280.57	103.27
<b>23 23 16 00-0087 ACR Wrought Copper Long Radius 90 Degree Elbows (23 23 16 00-0058)</b>		
Note: C x C		
23 23 16 00-0088 EA 1/4" ACR Wrought Copper Long Radius 90 Degree Elbow .....	23.43	12.70
23 23 16 00-0089 EA 3/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	22.33	12.70
23 23 16 00-0090 EA 1/2" ACR Wrought Copper Long Radius 90 Degree Elbow .....	23.20	12.70
23 23 16 00-0091 EA 5/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	23.77	13.30
23 23 16 00-0092 EA 3/4" ACR Wrought Copper Long Radius 90 Degree Elbow .....	30.18	17.53
23 23 16 00-0093 EA 7/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	31.85	18.00
23 23 16 00-0094 EA 1-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	41.37	22.35
23 23 16 00-0095 EA 1-3/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	58.68	30.58
23 23 16 00-0096 EA 1-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	71.06	35.88
23 23 16 00-0097 EA 2-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	110.46	43.52
23 23 16 00-0098 EA 2-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	170.75	66.11
23 23 16 00-0099 EA 3-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	225.28	86.92
23 23 16 00-0100 EA 4-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow .....	409.09	103.27
<b>23 23 16 00-0101 ACR Wrought Copper 45 Degree Elbow (23 23 16 00-0058)</b>		
Note: C x C		
23 23 16 00-0102 EA 1/4" ACR Wrought Copper 45 Degree Elbow .....	24.94	12.70
23 23 16 00-0103 EA 3/8" ACR Wrought Copper 45 Degree Elbow .....	23.43	12.70



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0104 EA 1/2" ACR Wrought Copper 45 Degree Elbow .....	22.78	12.70
23 23 16 00-0105 EA 5/8" ACR Wrought Copper 45 Degree Elbow .....	21.51	13.30
23 23 16 00-0106 EA 3/4" ACR Wrought Copper 45 Degree Elbow .....	33.02	17.53
23 23 16 00-0107 EA 7/8" ACR Wrought Copper 45 Degree Elbow .....	29.62	18.00
23 23 16 00-0108 EA 1-1/8" ACR Wrought Copper 45 Degree Elbow .....	40.20	22.35
23 23 16 00-0109 EA 1-3/8" ACR Wrought Copper 45 Degree Elbow .....	54.88	30.58
23 23 16 00-0110 EA 1-5/8" ACR Wrought Copper 45 Degree Elbow .....	64.70	35.88
23 23 16 00-0111 EA 2-1/8" ACR Wrought Copper 45 Degree Elbow .....	83.31	43.52
23 23 16 00-0112 EA 2-5/8" ACR Wrought Copper 45 Degree Elbow .....	137.69	66.11
23 23 16 00-0113 EA 3-1/8" ACR Wrought Copper 45 Degree Elbow .....	184.26	86.92
23 23 16 00-0114 EA 4-1/8" ACR Wrought Copper 45 Degree Elbow .....	269.65	103.27
<b>23 23 16 00-0115 ACR Wrought Copper Tee (23 23 16 00-0058)</b>		
Note: C x C x C		
23 23 16 00-0116 EA 1/4" ACR Wrought Copper Tee .....	36.51	21.17
23 23 16 00-0117 EA 3/8" ACR Wrought Copper Tee .....	36.77	21.17
23 23 16 00-0118 EA 1/2" ACR Wrought Copper Tee .....	35.79	21.17
23 23 16 00-0119 EA 5/8" ACR Wrought Copper Tee .....	41.36	26.70
23 23 16 00-0120 EA 3/4" ACR Wrought Copper Tee .....	49.12	26.70
23 23 16 00-0121 EA 7/8" ACR Wrought Copper Tee .....	44.00	27.05
23 23 16 00-0122 EA 1-1/8" ACR Wrought Copper Tee .....	64.46	35.88
23 23 16 00-0123 EA 1-3/8" ACR Wrought Copper Tee .....	79.54	43.52
23 23 16 00-0124 EA 1-5/8" ACR Wrought Copper Tee .....	99.54	51.63
23 23 16 00-0125 EA 2-1/8" ACR Wrought Copper Tee .....	137.74	68.81
23 23 16 00-0126 EA 2-5/8" ACR Wrought Copper Tee .....	294.84	150.20
23 23 16 00-0127 EA 3-1/8" ACR Wrought Copper Tee .....	347.65	165.15
23 23 16 00-0128 EA 4-1/8" ACR Wrought Copper Tee .....	517.25	183.49
<b>23 23 16 00-0129 ACR Wrought Copper Male Adapter (23 23 16 00-0058)</b>		
Note: C x M		
23 23 16 00-0130 EA 1/4" ACR Wrought Copper Male Adapter .....	26.45	12.70
23 23 16 00-0131 EA 3/8" ACR Wrought Copper Male Adapter .....	28.87	12.70
23 23 16 00-0132 EA 1/2" ACR Wrought Copper Male Adapter .....	24.84	12.70
<b>23 23 16 00-0133 ACR Wrought Copper Female Adapter (23 23 16 00-0058)</b>		
Note: C x F		
23 23 16 00-0134 EA 1/4" ACR Wrought Copper Female Adapter .....	25.50	12.70
23 23 16 00-0135 EA 3/8" ACR Wrought Copper Female Adapter .....	24.11	12.70
23 23 16 00-0136 EA 1/2" ACR Wrought Copper Female Adapter .....	24.63	12.70
<b>23 23 16 00-0137 ACR Wrought Copper Cap (23 23 16 00-0058)</b>		
Note: C		
23 23 16 00-0138 EA 1/4" ACR Wrought Copper Cap .....	13.81	8.47
23 23 16 00-0139 EA 3/8" ACR Wrought Copper Cap .....	13.37	8.47
23 23 16 00-0140 EA 1/2" ACR Wrought Copper Cap .....	13.80	8.47
<b>23 23 16 00-0141 ACR Wrought Copper P-Trap (23 23 16 00-0058)</b>		
23 23 16 00-0142 EA 5/8" ACR Wrought Copper P-Trap .....	65.26	10.83
23 23 16 00-0143 EA 3/4" ACR Wrought Copper P-Trap .....	84.58	11.91
23 23 16 00-0144 EA 7/8" ACR Wrought Copper P-Trap .....	79.56	11.91
23 23 16 00-0145 EA 1-1/8" ACR Wrought Copper P-Trap .....	102.70	12.99
23 23 16 00-0146 EA 1-3/8" ACR Wrought Copper P-Trap .....	175.01	12.99
23 23 16 00-0147 EA 1-5/8" ACR Wrought Copper P-Trap .....	236.56	14.08
23 23 16 00-0148 EA 2-1/8" ACR Wrought Copper P-Trap .....	392.68	15.16
<b>23 23 16 00-0149 Sight Glass With Moisture And Liquid Indicator, Solder Connection (23 23 16)</b>		
23 23 16 00-0150 EA 1/4" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	47.86	16.24
23 23 16 00-0151 EA 3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	57.65	19.48
23 23 16 00-0152 EA 1/2" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	69.03	23.82
23 23 16 00-0153 EA 5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	76.97	27.07
23 23 16 00-0154 EA 7/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	101.39	34.65
23 23 16 00-0155 EA 1-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	119.55	42.23
23 23 16 00-0156 EA 1-3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	170.90	49.81
23 23 16 00-0157 EA 1-5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	217.05	68.21
23 23 16 00-0158 EA 2-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection .....	267.83	84.44
<b>23 23 16 00-0159 Filter Driers, Solder Connections (23 23 16)</b>		
<b>23 23 16 00-0160 Replaceable Core Type Filter Driers, Solder Connections (23 23 16 00-0159)</b>		
23 23 16 00-0161 EA 5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	336.03	9.74
23 23 16 00-0162 EA 7/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	354.67	11.91
23 23 16 00-0163 EA 1-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	456.57	11.91
23 23 16 00-0164 EA 1-3/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	471.74	12.99
23 23 16 00-0165 EA 1-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	539.07	14.08

**23 Heating, Ventilating, And Air-Conditioning (HVAC)****23 20 HVAC Piping And Pumps****23 23 Refrigerant Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0166 EA 2-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	632.60	15.16
23 23 16 00-0167 EA 2-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	744.39	16.24
23 23 16 00-0168 EA 3-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections .....	929.64	16.24
<b>23 23 16 00-0169 Sealed In-Line Filter Driers, Solder Connections</b> (23 23 16 00-0159)		
23 23 16 00-0170 EA 1/4" Outside Diameter, 1/4 To 1 Ton, Sealed In-Line Filter Drier, Solder Connections.....	78.28	9.74
23 23 16 00-0171 EA 3/8" Outside Diameter, 1/2 To 2 Ton, Sealed In-Line Filter Drier, Solder Connections.....	100.09	9.74
23 23 16 00-0172 EA 1/2" Outside Diameter, 1 To 7 Ton, Sealed In-Line Filter Drier, Solder Connections.....	126.70	10.83
23 23 16 00-0173 EA 1/2" Outside Diameter, 2 To 7-1/2 Ton, Sealed In-Line Filter Drier, Solder Connections .....	144.35	10.83
23 23 16 00-0174 EA 5/8" Outside Diameter, 2 To 10 Ton, Sealed In-Line Filter Drier, Solder Connections.....	160.16	10.83
23 23 16 00-0175 EA 5/8" Outside Diameter, 4 To 8 Ton, Sealed In-Line Filter Drier, Solder Connections.....	175.23	10.83
23 23 16 00-0176 EA 7/8" Outside Diameter, 5 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections.....	198.30	11.91
23 23 16 00-0177 EA 7/8" Outside Diameter, 7-1/2 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections .....	258.06	11.91
23 23 16 00-0178 EA 1-1/8" Outside Diameter, 15 To 25 Ton, Sealed In-Line Filter Drier, Solder Connections .....	286.48	11.91
<b>23 23 16 00-0179 Bi-Flow Filter Driers, Solder Connections</b> (23 23 16 00-0159)		
23 23 16 00-0180 EA 1/4" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections.....	96.99	9.74
23 23 16 00-0181 EA 3/8" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections.....	113.41	9.74
23 23 16 00-0182 EA 1/2" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections.....	137.60	10.83
23 23 16 00-0183 EA 3/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	118.69	9.74
23 23 16 00-0184 EA 1/2" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections .....	148.49	10.83
23 23 16 00-0185 EA 5/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections.....	177.10	10.83
<b>23 23 16 00-0186 Refrigerant Compressor Discharge Mufflers</b> (23 23 16)		
23 23 16 00-0187 EA 3/8" Outside Diameter, 2 Ton, Refrigerant Compressor Discharge Muffler.....	94.02	9.74
23 23 16 00-0188 EA 1/2" Outside Diameter, 3 Ton, Refrigerant Compressor Discharge Muffler.....	104.06	9.74
23 23 16 00-0189 EA 5/8" Outside Diameter, 5 Ton, Refrigerant Compressor Discharge Muffler.....	124.52	9.74
23 23 16 00-0190 EA 7/8" Outside Diameter, 7-1/2 To 10 Ton, Refrigerant Compressor Discharge Muffler .....	168.51	11.91
23 23 16 00-0191 EA 1-1/8" Outside Diameter, 10 To 15 Ton, Refrigerant Compressor Discharge Muffler .....	221.68	11.91
23 23 16 00-0192 EA 1-3/8" Outside Diameter, 15 To 25 Ton, Refrigerant Compressor Discharge Muffler .....	264.37	12.99
23 23 16 00-0193 EA 1-5/8" Outside Diameter, 25 To 50 Ton, Refrigerant Compressor Discharge Muffler .....	333.28	14.08
23 23 16 00-0194 EA 2-1/8" Outside Diameter, 50 To 75 Ton, Refrigerant Compressor Discharge Muffler .....	549.77	15.16
23 23 16 00-0195 EA 2-5/8" Outside Diameter, 75 To 100 Ton, Refrigerant Compressor Discharge Muffler .....	628.48	16.24
23 23 16 00-0196 EA 3-1/8" Outside Diameter, 100 To 125 Ton, Refrigerant Compressor Discharge Muffler .....	780.30	16.24
<b>23 23 16 00-0197 Expansion Valves And Vibration Absorbers</b> (23 23 16)		
<b>23 23 16 00-0198 Thermostatic Expansion Valves</b> (23 23 16 00-0197) Note: Outside diameter pipe sizes. Sporlan TP-S.		
23 23 16 00-0199 EA 3/8" In x 5/8" Out, 1/2 To 3 Ton, Thermostatic Expansion Valve .....	172.33	9.74
23 23 16 00-0200 EA 1/2" In x 7/8" Out, 4 To 5 Ton, Thermostatic Expansion Valve .....	239.17	10.83
23 23 16 00-0201 EA 5/8" In x 7/8" Out, 6 To 8 Ton, Thermostatic Expansion Valve .....	383.99	10.83
23 23 16 00-0202 EA 7/8" In x 1-1/8" Out, 7 To 12 Ton, Thermostatic Expansion Valve .....	456.38	11.91
23 23 16 00-0203 EA 7/8" In x 1-3/8" Out, 15 To 20 Ton, Thermostatic Expansion Valve .....	510.51	11.91
<b>23 23 16 00-0204 Electric Expansion Valves</b> (23 23 16 00-0197) Note: Sporlan SEI or SEH.		
23 23 16 00-0205 EA 1/2 To 11 Ton Electric Expansion Valve .....	347.93	13.53
23 23 16 00-0206 EA 25 Ton Electric Expansion Valve .....	396.09	14.08
23 23 16 00-0207 EA 50 Ton Electric Expansion Valve .....	444.46	14.62
23 23 16 00-0208 EA 100 Ton Electric Expansion Valve .....	535.11	14.62
23 23 16 00-0209 EA 175 Ton Electric Expansion Valve .....	598.57	15.16
<b>23 23 16 00-0210 Braided Stainless Steel Over Copper Vibration Absorber</b> (23 23 16 00-0197)		
23 23 16 00-0211 EA 1/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	46.16	14.08
23 23 16 00-0212 EA 3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	49.51	16.24
23 23 16 00-0213 EA 1/2" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	63.15	20.57
23 23 16 00-0214 EA 5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	70.06	24.90
23 23 16 00-0215 EA 3/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	83.54	30.31
23 23 16 00-0216 EA 7/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	95.78	34.65
23 23 16 00-0217 EA 1-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	137.11	12.99
23 23 16 00-0218 EA 1-3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	184.73	14.08
23 23 16 00-0219 EA 1-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	224.21	14.08
23 23 16 00-0220 EA 2-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	292.73	15.16
23 23 16 00-0221 EA 2-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	477.29	16.24
23 23 16 00-0222 EA 3-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	619.46	16.24
<b>23 23 16 00-0223 Accumulator, Refrigerant Suction Line</b> (23 23 16)		
23 23 16 00-0224 EA 3/4" Accumulator, Refrigeration Suction Line.....	152.64	49.26



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0225 EA 7/8" Accumulator, Refrigeration Suction Line .....	207.74	67.66
23 23 16 00-0226 EA 1-1/8" Accumulator, Refrigeration Suction Line .....	256.23	90.18
23 23 16 00-0227 EA 1 3/8" Accumulator, Refrigeration Suction Line .....	344.21	108.27
23 23 16 00-0228 EA 1-5/8" Accumulator, Refrigeration Suction Line .....	462.03	135.34
23 23 16 00-0229 EA 2-1/8" Accumulator, Refrigeration Suction Line .....	680.01	180.48
 <b>23 23 16 00-0230 Special Chemicals/Component</b> <small>(23 23 16)</small>		
23 23 16 00-0231 GAL Special Chemical, Inhibited Propylene Glycol, 100% .....	23.20	
23 23 16 00-0232 GAL Removal And Storage For Reuse Of Inhibited Propylene Glycol.....	8.40	
23 23 16 00-0233 GAL Special Chemical, Inhibited Ethylene Glycol, 100%.....	16.17	
23 23 16 00-0234 EA Internal Coil/Refrigerant Piping Flush .....	238.61	
<small>Note: Up to 10 ton AC system.</small>		
 <b>23 23 23 Refrigerants</b> <small>(23 23)</small>		
<b>23 23 23 00-0001 Refrigerant</b> <small>(23 23 23)</small>		
23 23 23 00-0002 LB Refrigerant R-113 .....	18.47	
23 23 23 00-0003 LB Refrigerant R-123 .....	17.21	
23 23 23 00-0004 LB Refrigerant R-134A .....	6.49	
23 23 23 00-0005 LB Refrigerant R-404A .....	8.39	
23 23 23 00-0006 LB Refrigerant R-407C .....	8.05	
23 23 23 00-0007 LB Refrigerant R-408A .....	24.77	
23 23 23 00-0008 LB Refrigerant R-409A .....	27.15	
23 23 23 00-0009 LB Refrigerant R-410A .....	6.67	
23 23 23 00-0010 LB Refrigerant R-500 .....	21.19	
23 23 23 00-0011 LB Refrigerant R-502 .....	24.27	
23 23 23 00-0012 LB Refrigerant R-507 .....	8.05	
 <b>23 25 HVAC Water Treatment</b> <small>(23 25)</small>		
<b>23 25 13 Water Treatment For Closed-Loop Hydronic Systems</b> <small>(23 25)</small>		
<b>23 25 13 00-0001 Polyethylene Chemical Storage Tanks</b> <small>(23 25 13)</small>		
23 25 13 00-0002 EA 15 Gallon Chemical Storage Tank, Polyethylene.....	238.12	90.45
 <b>23 25 13 00-0003 Gas Chlorinator</b> <small>(23 25 13)</small>		
23 25 13 00-0004 EA Gas Chlorinator, Wall Or Cylinder Mounted (10 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,157.37	411.56
<small>For Booster Pump, Add</small>		
	458.31	
23 25 13 00-0005 EA Gas Chlorinator, Wall Or Cylinder Mounted (25 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,322.33	470.35
<small>For Booster Pump, Add</small>		
	523.89	
23 25 13 00-0006 EA Gas Chlorinator, Wall Or Cylinder Mounted (50 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit.....	1,806.99	356.29
<small>For Booster Pump, Add</small>		
	637.82	
 <b>23 25 13 00-0007 Bypass Shot Feeders</b> <small>(23 25 13)</small>		
<small>Note: Includes up to 4 ports (in, out, fill and drain). Excludes valves.</small>		
<b>23 25 13 00-0008 In Line Mount, 125 PSIG</b> <small>(23 25 13 00-0007)</small>		
23 25 13 00-0009 EA 1.7 Gallon Bypass Shot Chemical Feeder In Line Mount, 125 PSIG .....	1,067.61	306.39
 <b>23 25 13 00-0010 Floor Mount, 175 PSIG</b> <small>(23 25 13 00-0007)</small>		
23 25 13 00-0011 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	1,572.61	461.21
23 25 13 00-0012 EA 12 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG.....	2,074.17	610.63
 <b>23 25 13 00-0013 Floor Mount, 150 LB ASME Code</b> <small>(23 25 13 00-0007)</small>		
23 25 13 00-0014 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code .....	1,572.61	461.21
23 25 13 00-0015 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code .....	2,074.17	610.63
 <b>23 25 13 00-0016 Floor Mount, 300 LB ASME Code</b> <small>(23 25 13 00-0007)</small>		
23 25 13 00-0017 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code .....	1,939.85	461.21
23 25 13 00-0018 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code .....	2,455.48	610.63

**END OF SECTION 23**

**23 Heating, Ventilating, And Air-Conditioning (HVAC)**

23 20 HVAC Piping And Pumps

23 25 HVAC Water Treatment



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MINOR	TOTAL DIRECT	DEMOLITION
CSI UOM DESCRIPTION	UNIT COST	UNIT COST

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MINOR	DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI UOM		UNIT COST	UNIT COST

## 26 Electrical

Note: Termination costs are included with all electrical equipment, panel boards, fixtures and devices. Terminations are not included with patch panels.

### 26 01 Operation and Maintenance of Electrical Systems <sup>(26)</sup>

#### 26 01 10 Operation And Maintenance Of Medium-Voltage Electrical Distribution <sup>(26 01)</sup>

##### 26 01 10 91 Medium-Voltage Electrical Distribution Restoration <sup>(26 01 10)</sup>

##### 26 01 10 91-0001 Retrofit Distribution Enclosures <sup>(26 01 10 91)</sup>

Note: Includes removal of equipment housing, punch or drill hole for window, touch-up area, and reinstallation of equipment housing.

26 01 10 91-0002	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-2C) .....	316.18
		Note: 2mm thick, aluminum frame, hinged cover.	
		<i>For Up To 20, Add</i>	62.53
		<i>For &gt;20 To 50, Add</i>	50.02
		<i>For &gt;50 To 100, Add</i>	25.01
26 01 10 91-0003	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-3C) .....	405.82
		Note: 2mm thick, aluminum frame, hinged cover.	
		<i>For Up To 20, Add</i>	84.94
		<i>For &gt;20 To 50, Add</i>	67.95
		<i>For &gt;50 To 100, Add</i>	33.97
26 01 10 91-0004	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Flir IRW-4C) .....	603.02
		Note: 4mm thick, aluminum frame, hinged cover.	
		<i>For Up To 20, Add</i>	134.24
		<i>For &gt;20 To 50, Add</i>	107.39
		<i>For &gt;50 To 100, Add</i>	53.69
26 01 10 91-0005	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 1 Rated (Fluke CLKTO) .....	313.62
		Note: 2mm thick, aluminum frame, twist cover.	
		<i>For Up To 20, Add</i>	61.89
		<i>For &gt;20 To 50, Add</i>	49.51
		<i>For &gt;50 To 100, Add</i>	24.75
26 01 10 91-0006	EA	2" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-2) .....	315.20
		Note: 2mm thick, aluminum frame, twist cover.	
		<i>For Up To 20, Add</i>	62.28
		<i>For &gt;20 To 50, Add</i>	49.82
		<i>For &gt;50 To 100, Add</i>	24.91
26 01 10 91-0007	EA	3" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-3) .....	398.52
		Note: 2mm thick, aluminum frame, twist cover.	
		<i>For Up To 20, Add</i>	83.11
		<i>For &gt;20 To 50, Add</i>	66.49
		<i>For &gt;50 To 100, Add</i>	33.24
26 01 10 91-0008	EA	4" Infrared Window Installed In Medium Voltage Equipment, NEMA Type 3/12 Rated (Fluke CLKT-4) .....	586.81
		Note: 4mm thick, aluminum frame, twist cover.	
		<i>For Up To 20, Add</i>	130.18
		<i>For &gt;20 To 50, Add</i>	104.15
		<i>For &gt;50 To 100, Add</i>	52.07
26 01 10 91-0009	EA	2" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPFR) .....	251.63
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		<i>For Up To 20, Add</i>	46.39
		<i>For &gt;20 To 50, Add</i>	37.11
		<i>For &gt;50 To 100, Add</i>	18.56
26 01 10 91-0010	EA	3" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPFR) .....	348.45
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		<i>For Up To 20, Add</i>	70.59
		<i>For &gt;20 To 50, Add</i>	56.47
		<i>For &gt;50 To 100, Add</i>	28.24
26 01 10 91-0011	EA	4" Infrared Window Pane Installed In Medium Voltage Equipment, NEMA Type 4 Rated (Schneider Electric VPPFR) .....	489.63
		Note: 0.25mm thick, composite frame, metal grille reinforced polymer.	
		<i>For Up To 20, Add</i>	105.89
		<i>For &gt;20 To 50, Add</i>	84.71
		<i>For &gt;50 To 100, Add</i>	42.36
26 01 10 91-0012	EA	2" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) .....	447.74
		Note: 4mm thick, aluminum frame, magnetic cover.	
		<i>For Up To 20, Add</i>	95.42
		<i>For &gt;20 To 50, Add</i>	76.33
		<i>For &gt;50 To 100, Add</i>	38.17
26 01 10 91-0013	EA	3" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) .....	609.71
		Note: 4mm thick, aluminum frame, magnetic cover.	
		<i>For Up To 20, Add</i>	135.91
		<i>For &gt;20 To 50, Add</i>	108.73
		<i>For &gt;50 To 100, Add</i>	54.36

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 10 Operation And Maintenance Of Medium-Voltage Electrical Distribution**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01	10 91-0014	EA	4" Infrared Window Installed In Medium Voltage Equipment, Longwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) .....	1,104.42	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	259.59	
			For >20 To 50, Add	207.67	
			For >50 To 100, Add	103.83	
26 01	10 91-0015	EA	3" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) .....	512.12	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	111.51	
			For >20 To 50, Add	89.21	
			For >50 To 100, Add	44.60	
26 01	10 91-0016	EA	4" Infrared Window Installed In Medium Voltage Equipment, Shortwave, NEMA Type 4 Rated (Schneider Electric IRHVIR) .....	746.64	
			Note: 4mm thick, aluminum frame, magnetic cover.		
			For Up To 20, Add	170.14	
			For >20 To 50, Add	136.11	
			For >50 To 100, Add	68.06	

## 26 01 20 Operation and Maintenance of Low-Voltage Electrical Distribution (26 01)

### 26 01 20 91 Low-Voltage Electrical Distribution Restoration (26 01 20)

26 01 20 91-0001	EA	Lock Out/Tag Out Devices <small>(26 01 20 91)</small> Note: Includes the installation and removal of device lock, pad lock and identifying markers. Includes following OSHA procedures and completing Owner's paperwork. Excludes circuit tracing.	
26 01 20 91-0002	EA	Lock Out/Tag Out Local Disconnect .....	26.97
26 01 20 91-0003	EA	Lock Out/Tag Out Breaker Or Motor Starter .....	26.97
26 01 20 91-0004	EA	Lock Out/Tag Out Tags.....	4.67
26 01 20 91-0005	EA	Existing Circuit Tracing <small>(26 01 20 91)</small>	
26 01 20 91-0006	EA	Motors, Disconnects And Other Single Source Devices, Existing Circuit Tracing Per Device .....	22.45
26 01 20 91-0007	EA	Lighting, Existing Circuit Tracing Per Circuit.....	22.45

## 26 01 30 Operation And Maintenance Of Facility Electrical Power Generating And Storing Equipment (26 01)

### 26 01 30 91 Facility Electrical Power Generating And Storing Equipment Restoration (26 01 30)

26 01 30 91-0001	EA	Emergency Generator Permits <small>(26 01 30 91)</small>	
26 01 30 91-0002	EA	Air Pollution Control Board <small>(26 01 30 91-0001)</small>	
26 01 30 91-0003	EA	APCD Permit To Construct And Operate Emergency Generator.....	2,603.76

## 26 01 50 Operation and Maintenance of Lighting (26 01)

### 26 01 50 51 Luminaire Relamping (26 01 50)

26 01 50 51-0001	EA	Replace Lamps In Existing Fixtures <small>(26 01 50 51)</small> Note: Includes removal of existing lamp from fixture and installation of new lamp. Excludes disposal of hazardous lamps. See CSI section 26 01 50 51-0349 for disposal of hazardous lamps.	
26 01 50 51-0002	EA	Halogen Lamps <small>(26 01 50 51-0001)</small>	
26 01 50 51-0003	EA	300 Watt, T3, Tungsten Halogen Lamp .....	52.06
26 01 50 51-0004	EA	500 Watt, T3, Tungsten Halogen Lamp .....	67.59
26 01 50 51-0005	EA	1,000 Watt, T3, Tungsten Halogen Lamp .....	101.56
26 01 50 51-0006	EA	60 Watt, PAR38, Halogen Lamp .....	24.71
26 01 50 51-0007	EA	75 Watt, PAR38, Halogen Lamp .....	24.71
26 01 50 51-0008	EA	90 Watt, PAR38, Halogen Lamp .....	23.32
26 01 50 51-0009	EA	100 Watt, PAR38, Halogen Lamp .....	23.32
26 01 50 51-0010	EA	60 Watt, PAR38, Halogen IR Reflective Lamp .....	35.10
26 01 50 51-0011	EA	67 Watt, PAR38, Halogen IR Reflective Lamp .....	24.74
26 01 50 51-0012	EA	70 Watt, PAR38, Halogen IR Reflective Lamp .....	33.71
26 01 50 51-0013	EA	90 Watt, PAR38, Halogen IR Reflective Lamp .....	40.63
26 01 50 51-0014	EA	100 Watt, PAR38, Halogen IR Reflective Lamp .....	41.01
26 01 50 51-0015	EA	12 Watt, 10 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-65-B01-12-830-10) .....	24.84
26 01 50 51-0016	EA	12 Watt, 20 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-20) .....	24.84
26 01 50 51-0017	EA	12 Watt, 25 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-25) .....	27.61
26 01 50 51-0018	EA	12 Watt, 36 Degree Beam, Base B01, Halogen Lamp (Soraa MR16-75-B01-12-830-36) .....	27.61
26 01 50 51-0019	EA	Incandescent Lamps <small>(26 01 50 51-0001)</small>	
26 01 50 51-0020	EA	100 Watt, Frosted, Interior Incandescent Lamp .....	6.21
		For Multiple Lamps In Fixture, Deduct	-1.78
26 01 50 51-0021	EA	150 Watt, Frosted, Interior Incandescent Lamp .....	8.00
		For Multiple Lamps In Fixture, Deduct	-1.78



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0022 EA 200 Watt, Frosted, Interior Incandescent Lamp .....	9.97	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.78	
26 01 50 51-0023 EA 300 Watt, PS25, Interior Incandescent Lamp .....	12.45	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.78	
26 01 50 51-0024 EA 60 Watt, G25, Clear, Interior Incandescent Lamp .....	9.11	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.78	
26 01 50 51-0025 EA 75 Watt, R20, Interior Incandescent Lamp .....	14.76	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.14	
26 01 50 51-0026 EA 75 Watt, PAR38, Exterior Incandescent Lamp .....	18.23	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.14	
26 01 50 51-0027 EA 100 Watt, PAR38, Exterior Incandescent Lamp .....	16.84	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.14	
26 01 50 51-0028 EA 150 Watt, PAR38, Exterior Incandescent Lamp .....	30.00	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.14	
26 01 50 51-0029 EA 250 Watt, PAR38, Exterior Incandescent Lamp .....	62.95	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.49	
26 01 50 51-0030 EA 300 Watt, PAR56, Exterior Incandescent Lamp .....	72.60	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.49	
<b>26 01 50 51-0031 Exit Light Lamps <small>(26 01 50 51-0001)</small></b>		
26 01 50 51-0032 EA Convert Exit Light Lamps To Red LED Lamps .....	105.77	
<i>For Green LED Lamps, Add</i>	25.00	
26 01 50 51-0033 EA Fluorescent Lamp For Exit Light .....	30.27	
<i>For Multiple Lamps In Fixture, Deduct</i>	-7.12	
26 01 50 51-0034 EA Lamp Replacement For Emergency Lights On Exit Sign .....	42.28	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.56	
<b>26 01 50 51-0035 Fluorescent Lamps <small>(26 01 50 51-0001)</small></b>		
26 01 50 51-0036 EA 18", 15 Watt, T8 Fluorescent Lamp .....	10.27	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85	
26 01 50 51-0037 EA 2', 17 Watt, T8 Fluorescent Lamp .....	11.68	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85	
26 01 50 51-0038 EA 3', 25 Watt, T8 Fluorescent Lamp .....	13.33	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0039 EA 4', 32 Watt, T8 Fluorescent Lamp .....	9.71	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0040 EA 4', 30 Watt, T8 Fluorescent Lamp .....	15.75	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0041 EA 4', 28 Watt, T8 Fluorescent Lamp .....	14.27	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0042 EA 4', 25 Watt, T8 Fluorescent Lamp .....	14.22	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0043 EA 4', 44 Watt, T8HO Fluorescent Lamp .....	20.58	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0044 EA 8', 59 Watt, T8 Fluorescent Lamp .....	16.59	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0045 EA 18", 15 Watt, T12 Fluorescent Lamp .....	13.82	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85	
26 01 50 51-0046 EA 2', 20 Watt, T12 Fluorescent Lamp .....	11.27	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85	
26 01 50 51-0047 EA 3', 30 Watt, T12 Fluorescent Lamp .....	12.66	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0048 EA 4', 34 Watt, T12 Fluorescent Lamp .....	12.70	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0049 EA 4', 40 Watt, T12 Fluorescent Lamp .....	12.52	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0050 EA 8', 60 Watt, T12 Fluorescent Lamp .....	16.91	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0051 EA 8', 75 Watt, T12 Fluorescent Lamp .....	14.86	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0052 EA 8', 95 Watt, Instant Start T12 Fluorescent Lamp .....	21.83	
26 01 50 51-0053 EA 6" Diameter, 20 Watt, Circular T9 Fluorescent Lamp .....	13.94	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85	
26 01 50 51-0054 EA 8" Diameter, 22 Watt, Circular T9 Fluorescent Lamp .....	12.06	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85	
26 01 50 51-0055 EA 12" Diameter, 32 Watt, Circular T9 Fluorescent Lamp .....	11.77	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85	
26 01 50 51-0056 EA 16" Diameter, 40 Watt, Circular T9 Fluorescent Lamp .....	12.67	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85	
26 01 50 51-0057 EA 32 Watt, Rapid Start, U-Shaped T8 Fluorescent Lamp .....	19.60	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.56	
26 01 50 51-0058 EA 40 Watt, Rapid Start, U-Shaped T12 Fluorescent Lamp .....	19.04	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.56	
26 01 50 51-0059 EA 6", 4 Watt, T5 Fluorescent Lamp .....	11.03	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85	
26 01 50 51-0060 EA 9", 6 Watt, T5 Fluorescent Lamp .....	10.90	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85	
26 01 50 51-0061 EA 12", 8 Watt, T5 Fluorescent Lamp .....	11.15	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85	
26 01 50 51-0062 EA 21", 13 Watt, T5 Fluorescent Lamp .....	11.51	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85	

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0063 EA 24", 14 Watt, T5 Fluorescent Lamp .....	12.75	
<i>For Multiple Lamps In Fixture, Deduct</i>	-2.85	
26 01 50 51-0064 EA 34", 21 Watt, T5 Fluorescent Lamp .....	13.99	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0065 EA 46", 28 Watt, T5 Fluorescent Lamp .....	13.66	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0066 EA 46", 54 Watt T5HO Fluorescent Lamp .....	14.60	
<i>For Multiple Lamps In Fixture, Deduct</i>	-3.20	
26 01 50 51-0067 EA 46", 54 Watt T5 Fluorescent Lamp .....	16.59	
26 01 50 51-0068 EA 5-13 Watt, 2-Pin Compact Fluorescent Lamp .....	8.17	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.78	
26 01 50 51-0069 EA 9-26 Watt, 4-Pin Compact Fluorescent Lamp .....	8.82	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.78	
26 01 50 51-0070 EA 27-55 Watt, 4-Pin Compact Fluorescent Lamp .....	15.95	
<i>For Multiple Lamps In Fixture, Deduct</i>	-1.78	
26 01 50 51-0071 EA Compact Fluorescent 13 Watt, 4-Pin Lamps CF13DD/E/827, Dulux .....	21.40	
26 01 50 51-0072 EA Compact Fluorescent 18 Watt, 4-Pin Lamps CF18DD/E/827, Dulux .....	21.40	
26 01 50 51-0073 EA 32 Watt 2D (DoubleD) Fluorescent Lamp, 4-Pin .....	36.17	
26 01 50 51-0074 EA 26 Watt (1,600 Lumens) 4-pin Quad Tube PL Lamp .....	14.43	
26 01 50 51-0075 EA <9 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	5.40	
26 01 50 51-0076 EA 9-27 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	5.40	
26 01 50 51-0077 EA 29-32 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	5.40	
26 01 50 51-0078 EA 33-42 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	5.40	
26 01 50 51-0079 EA 43-65 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	5.40	
26 01 50 51-0080 EA 85 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	5.40	
26 01 50 51-0081 EA 105 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	5.40	
26 01 50 51-0082 EA 200 Watt Spiral Compact Fluorescent Lamps, Screw-In .....	5.40	
26 01 50 51-0083 EA 11 Watt Compact Fluorescent Reflector Lamps, Screw-In .....	6.47	
26 01 50 51-0084 EA 15 Watt Compact Fluorescent Reflector Lamps, Screw-In .....	6.47	
26 01 50 51-0085 EA 20-28 Watt Compact Fluorescent Reflector Lamps, Screw-In .....	6.47	
<b>26 01 50 51-0086 Metal Halide Lamps (26 01 50 51-0001)</b>		
26 01 50 51-0087 EA 50 Watt, Pulse Start Metal Halide Lamp .....	33.78	
26 01 50 51-0088 EA 70 Watt, Pulse Start Metal Halide Lamp .....	32.62	
26 01 50 51-0089 EA 100 Watt, Pulse Start Metal Halide Lamp .....	36.27	
26 01 50 51-0090 EA 150 Watt, Pulse Start Metal Halide Lamp .....	35.44	
26 01 50 51-0091 EA 175 Watt, Pulse Start Metal Halide Lamp .....	35.20	
26 01 50 51-0092 EA 250 Watt, Pulse Start Metal Halide Lamp .....	35.36	
26 01 50 51-0093 EA 400 Watt, Pulse Start Metal Halide Lamp .....	41.18	
26 01 50 51-0094 EA 1,000 Watt, Pulse Start Metal Halide Lamp .....	46.75	
26 01 50 51-0095 EA 1,500 Watt, Pulse Start Metal Halide Lamp .....	46.51	
<b>26 01 50 51-0096 High Pressure Sodium Lamps (26 01 50 51-0001)</b>		
26 01 50 51-0097 EA 35 Watt, High Pressure Sodium Lamp .....	29.07	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.75	
26 01 50 51-0098 EA 50 Watt, High Pressure Sodium Lamp .....	29.07	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.75	
26 01 50 51-0099 EA 70 Watt, High Pressure Sodium Lamp .....	29.57	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.75	
26 01 50 51-0100 EA 100 Watt, High Pressure Sodium Lamp .....	30.52	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.75	
26 01 50 51-0101 EA 150 Watt, High Pressure Sodium Lamp .....	29.57	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.75	
26 01 50 51-0102 EA 250 Watt, High Pressure Sodium Lamp .....	29.57	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.75	
26 01 50 51-0103 EA 400 Watt, High Pressure Sodium Lamp .....	28.16	
<i>For Enclosed And Gasket Light Fixtures, Add</i>	2.75	
26 01 50 51-0104 EA 1,000 Watt, High Pressure Sodium Lamp .....	57.42	
<b>26 01 50 51-0105 Low Pressure Sodium Lamps (26 01 50 51-0001)</b>		
26 01 50 51-0106 EA 35 Watt, Low Pressure Sodium Lamp .....	63.25	
26 01 50 51-0107 EA 55 Watt, Low Pressure Sodium Lamp .....	69.78	
26 01 50 51-0108 EA 70 Watt, Low Pressure Sodium Lamp .....	71.25	
26 01 50 51-0109 EA 90 Watt, Low Pressure Sodium Lamp .....	72.72	
26 01 50 51-0110 EA 135 Watt, Low Pressure Sodium Lamp .....	78.61	
26 01 50 51-0111 EA 180 Watt, Low Pressure Sodium Lamp .....	105.08	
<b>26 01 50 51-0112 LED Lamps (26 01 50 51-0001)</b>		
<b>26 01 50 51-0113 LED Lamps, Candelabra Base, CA10 (26 01 50 51-0112)</b>		
26 01 50 51-0114 EA 3 Watt (25 Watt Incandescent Equivalent), Candelabra Base, CA10, Dimmable LED Lamp (Energy Star) .....	12.98	
<b>26 01 50 51-0115 LED Lamps, Medium Base, A19 Or A21 (26 01 50 51-0112)</b>		
26 01 50 51-0116 EA 6 Watt (40 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....	16.87	
26 01 50 51-0117 EA 11 Watt (60 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....	16.87	
26 01 50 51-0118 EA 14 Watt (75 Watt Incandescent Equivalent), Medium Base, A19, Dimmable LED Lamp (Energy Star) .....	27.31	



MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0119	EA 17 Watt (75 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) .....	19.51	
26 01 50 51-0120	EA 18 Watt (100 Watt Incandescent Equivalent), Medium Base, A21, Dimmable LED Lamp (Energy Star) .....	33.84	
<b>26 01 50 51-0121 LED Lamps, Medium Base, BR30 Or BR40 (26 01 50 51-0112)</b>			
26 01 50 51-0122	EA 9.5 Watt (65 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	22.99	
26 01 50 51-0123	EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR30, Dimmable LED Lamp (Energy Star).....	20.79	
26 01 50 51-0124	EA 11 Watt (65 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	26.65	
26 01 50 51-0125	EA 14.5 Watt (75 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	22.75	
26 01 50 51-0126	EA 14 Watt (85 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	29.26	
26 01 50 51-0127	EA 18 Watt (90 Watt Incandescent Equivalent), Medium Base, BR40, Dimmable LED Lamp (Energy Star).....	22.75	
<b>26 01 50 51-0128 LED Lamps, Medium Base, PAR (26 01 50 51-0112)</b>			
26 01 50 51-0129	EA 7 Watt (45 Watt Halogen Equivalent), Medium Base, PAR20, Dimmable LED Lamp (Energy Star) .....	25.08	
26 01 50 51-0130	EA 12 Watt (60 Watt Halogen Equivalent), Medium Base, Short Neck Par30, Dimmable LED Lamp (Energy Star) .....	33.19	
26 01 50 51-0131	EA 16.3 Watt (65 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	33.19	
26 01 50 51-0132	EA 15.6 Watt (70 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	31.88	
26 01 50 51-0133	EA 12 Watt (50 Watt Halogen Equivalent), Medium Base, Short Neck PAR30, Dimmable LED Lamp (Energy Star).....	30.58	
26 01 50 51-0134	EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star) .....	30.58	
26 01 50 51-0135	EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, Long Neck PAR30, Dimmable LED Lamp (Energy Star) .....	56.94	
26 01 50 51-0136	EA 15 Watt (75 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star) .....	33.19	
26 01 50 51-0137	EA 18 Watt (90 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star) .....	31.88	
26 01 50 51-0138	EA 19 Watt (120 Watt Halogen Equivalent), Medium Base, Par38, Dimmable LED Lamp (Energy Star) .....	33.19	
26 01 50 51-0139	EA 24 Watt (120 Watt Halogen Equivalent), Medium Base, PAR38, Dimmable LED Lamp (Energy Star) .....	33.19	
<b>26 01 50 51-0140 LED Lamps, GU Base, MR16 (26 01 50 51-0112)</b>			
26 01 50 51-0141	EA 4 Watt (20 Watt Halogen Equivalent), GU5.3 Base, MR16, LED Lamp (Energy Star).....	18.18	
26 01 50 51-0142	EA 6 Watt (30 Watt Halogen Equivalent), GU10 Base, MR16, Dimmable LED Lamp (Energy Star).....	22.99	
26 01 50 51-0143	EA 8 Watt (50 Watt Halogen Equivalent), GU5.3 Base, MR16, Dimmable LED Lamp (Energy Star).....	25.08	
<b>26 01 50 51-0144 LED Lamps, PL Series (26 01 50 51-0112)</b>			
26 01 50 51-0145	EA 3.5 Watt, 2-Pin CFL G23 Base , Hybrid Lamp (GreenCreative PLS 3.5 HYB G23) .....	18.58	
26 01 50 51-0146	EA 26 Watt, 2700K CCT, PL EDGE DIRect Series (Green Creative 9.5PLH/827/DIR).....	24.20	
26 01 50 51-0147	EA 26 Watt, 3000K CCT, PL EDGE DIRect Series (Green Creative 9.5PLH/830/DIR).....	20.05	
26 01 50 51-0148	EA 26 Watt, 3500K CCT, PL EDGE DIRect Series (Green Creative 9.5PLH/835/DIR).....	22.65	
26 01 50 51-0149	EA 26 Watt, 4000K CCT, PL EDGE DIRect Series (Green Creative 9.5PLH/840/DIR).....	22.65	
26 01 50 51-0150	EA 26 Watt, 3000K CCT, High CRI, PL EDGE DIRect Series (Green Creative 10.5PLH/930/DIR).....	27.31	
26 01 50 51-0151	EA 13-18 Watt, 2700K CCT, PL EDGE DIRect Series (Green Creative 5.5PLH/827/DIR) .....	22.65	
26 01 50 51-0152	EA 13-18 Watt, 3000K CCT, PL EDGE DIRect Series (Green Creative 5.5PLH/830/DIR) .....	22.65	
26 01 50 51-0153	EA 13-18 Watt, 3500K CCT, PL EDGE DIRect Series (Green Creative 5.5PLH/835/DIR) .....	22.65	
26 01 50 51-0154	EA 13-18 Watt, 4000K CCT, PL EDGE DIRect Series (Green Creative 5.5PLH/840/DIR) .....	22.65	
26 01 50 51-0155	EA 26 Watt, 2700K CCT, PL EDGE DIRect Series (Green Creative 10PLV/827/DIR).....	25.75	
26 01 50 51-0156	EA 26 Watt, 3000K CCT, PL EDGE DIRect Series (Green Creative 10PLV/830/DIR).....	25.75	
26 01 50 51-0157	EA 26 Watt, 3500K CCT, PL EDGE DIRect Series (Green Creative 10PLV/835/DIR).....	25.75	
26 01 50 51-0158	EA 26 Watt, 4000K CCT, PL EDGE DIRect Series (Green Creative 10PLV/840/DIR).....	25.75	
26 01 50 51-0159	EA 26 Watt, 3000K CCT, High CRI, PL EDGE DIRect Series (Green Creative 11PLV/930/DIR) .....	24.20	
26 01 50 51-0160	EA 13-18 Watt, 2700K CCT, PL EDGE DIRect Series (Green Creative 6.5PLV/827/DIR).....	24.20	
26 01 50 51-0161	EA 13-18 Watt, 3000K CCT, PL EDGE DIRect Series (Green Creative 6.5PLV/830/DIR).....	24.20	
26 01 50 51-0162	EA 13-18 Watt, 3500K CCT, PL EDGE DIRect Series (Green Creative 6.5PLV/835/DIR).....	25.24	
26 01 50 51-0163	EA 13-18 Watt, 4000K CCT, PL EDGE DIRect Series (Green Creative 6.5PLV/840/DIR).....	25.24	
26 01 50 51-0164	EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/827/BYP).....	25.46	
26 01 50 51-0165	EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/830/BYP).....	25.46	
26 01 50 51-0166	EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/835/BYP).....	25.46	
26 01 50 51-0167	EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 10.5PLH/840/BYP).....	25.46	
26 01 50 51-0168	EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP).....	26.27	
26 01 50 51-0169	EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP).....	26.27	
26 01 50 51-0170	EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/E26) .....	26.27	
26 01 50 51-0171	EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/E26) .....	26.27	
26 01 50 51-0172	EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/E26) .....	26.27	
26 01 50 51-0173	EA 13 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/830/BYP/GU24) .....	26.27	
26 01 50 51-0174	EA 13 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 6PLH/835/BYP/GU24) .....	26.27	
26 01 50 51-0175	EA 13 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 6PLH/840/BYP/GU24) .....	26.27	
26 01 50 51-0176	EA 26 Watt, 2700K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/827/BYP) .....	34.37	
26 01 50 51-0177	EA 26 Watt, 3000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/830/BYP) .....	34.37	
26 01 50 51-0178	EA 26 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/835/BYP) .....	34.37	
26 01 50 51-0179	EA 26 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 11.5PLV/840/BYP) .....	32.50	
26 01 50 51-0180	EA 13-18 Watt, 3500K CCT, PL EDGE BYPass Series (Green Creative 7PLV/835/BYP).....	32.50	
26 01 50 51-0181	EA 13-18 Watt, 4000K CCT, PL EDGE BYPass Series (Green Creative 7PLV/840/BYP).....	32.50	
<b>26 01 50 51-0182 HID LED Lamps, Medium Base E26 (26 01 50 51-0112)</b>			
26 01 50 51-0183	EA 27 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/840/277V/E26) .....	68.26	
26 01 50 51-0184	EA 27 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 27HID/850/277V/E26) .....	68.26	
26 01 50 51-0185	EA 45 Watt, 4000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/840/277V/E26) .....	87.43	
26 01 50 51-0186	EA 45 Watt, 5000K CCT, Medium Base E26, LED Lamp (Green Creative 45HID/850/277V/E26) .....	87.43	
26 01 50 51-0187	EA 10 Watt, 3000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-3026).....	56.65	
26 01 50 51-0188	EA 10 Watt, 4000K CCT, Medium Base E26, LED Omnidirectional Street Lamp (Bergen industries LED10-4026).....	56.65	

26 Electrical
26 01 Operation and Maintenance of Electrical Systems
26 01 50 Operation and Maintenance of Lighting



MINOR TOTAL DIRECT DEMOLITION
CSI UOM DESCRIPTION UNIT COST UNIT COST

Table with columns for Item ID, Description, and Unit Cost. Rows include various lighting fixtures like LED Omnidirectional Street Lamps and LED Post Top Lamps with their respective unit costs.

26 01 50 51-0264 HID LED Lamps, Mogul Base E39 Or EX39 (26 01 50 51-0112)

Table with columns for Item ID, Description, and Unit Cost. Rows include Mogul Base LED Lamps with unit costs ranging from 239.68 to 252.10.



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0268	EA		27 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/830/277V/EX39).....	68.26	
26 01 50 51-0269	EA		27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/840/277V/EX39/R).....	68.26	
26 01 50 51-0270	EA		27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 27HID/850/277V/EX39).....	68.26	
26 01 50 51-0271	EA		45 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/830/277V/EX39).....	87.43	
26 01 50 51-0272	EA		45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/840/277V/EX39/R).....	87.43	
26 01 50 51-0273	EA		45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 45HID/850/277V/EX39).....	87.43	
26 01 50 51-0274	EA		80 Watt, 5000K CCT, Mogul Base E39, LED Lamp (Green Creative 80HID/850/277V/EX39).....	165.16	
26 01 50 51-0275	EA		80 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-3039).....	182.06	
26 01 50 51-0276	EA		80 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-4039).....	182.06	
26 01 50 51-0277	EA		80 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-5039).....	182.06	
26 01 50 51-0278	EA		80 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED80-6039).....	182.06	
26 01 50 51-0279	EA		100 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-3039).....	188.28	
26 01 50 51-0280	EA		100 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-4039).....	188.28	
26 01 50 51-0281	EA		100 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-5039).....	188.28	
26 01 50 51-0282	EA		100 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED100-6039).....	188.28	
26 01 50 51-0283	EA		120 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-3039).....	224.56	
26 01 50 51-0284	EA		120 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-4039).....	224.56	
26 01 50 51-0285	EA		120 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-5039).....	224.56	
26 01 50 51-0286	EA		120 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED120-6039).....	224.56	
26 01 50 51-0287	EA		150 Watt, 3000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-3039).....	268.09	
26 01 50 51-0288	EA		150 Watt, 4000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-4039).....	268.09	
26 01 50 51-0289	EA		150 Watt, 5000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-5039).....	268.09	
26 01 50 51-0290	EA		150 Watt, 6000K CCT, Mogul Base E39, LED Omnidirectional Street Lamp (Bergen industries LED150-6039).....	268.09	
26 01 50 51-0291	EA		27 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT40KMOG-G5).....	92.58	
26 01 50 51-0292	EA		27 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED27WPT50KMOG-G5).....	92.58	
26 01 50 51-0293	EA		36 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT40KMOG-G5).....	108.13	
26 01 50 51-0294	EA		36 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED36WPT50KMOG-G5).....	106.70	
26 01 50 51-0295	EA		45 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT40KMOG-G5).....	119.53	
26 01 50 51-0296	EA		45 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED45WPT50KMOG-G5).....	118.30	
26 01 50 51-0297	EA		54 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT40KMOG-G5).....	121.08	
26 01 50 51-0298	EA		54 Watt, 5000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED54WPT50KMOG-G5).....	117.47	
26 01 50 51-0299	EA		100 Watt, 4000K CCT, Mogul Base E39, LED Post Top Lamp (EiKO industries LED100WPT40KMOG-G5).....	258.42	
26 01 50 51-0300	EA		20 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/40KMOG-G7).....	92.55	
26 01 50 51-0301	EA		20 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED20WPT180/50KMOG-G7).....	92.55	
26 01 50 51-0302	EA		30 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/40KMOG-G7).....	105.44	
26 01 50 51-0303	EA		30 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED30WPT180/50KMOG-G7).....	105.44	
26 01 50 51-0304	EA		40 Watt, 4000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/40KMOG-G7).....	113.19	
26 01 50 51-0305	EA		40 Watt, 5000K CCT, Mogul Base E39, Horizontal LED Lamp (EiKO industries LED40WPT180/50KMOG-G7).....	113.19	
26 01 50 51-0306	EA		27 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT40KMOG-G7).....	71.75	
26 01 50 51-0307	EA		27 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED27WPT50KMOG-G7).....	71.75	
26 01 50 51-0308	EA		36 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT40KMOG-G7).....	81.47	
26 01 50 51-0309	EA		36 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED36WPT50KMOG-G7).....	81.47	
26 01 50 51-0310	EA		45 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT40KMOG-G7).....	87.84	
26 01 50 51-0311	EA		45 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED45WPT50KMOG-G7).....	87.84	
26 01 50 51-0312	EA		54 Watt, 4000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT40KMOG-G7).....	97.42	
26 01 50 51-0313	EA		54 Watt, 5000K CCT, Mogul Base E39, LED Lamp (EiKO industries LED54WPT50KMOG-G7).....	97.42	
26 01 50 51-0314	EA		65 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-65W8-55K-E39).....	178.14	
26 01 50 51-0315	EA		80 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-80W8-55K-E39).....	206.54	
26 01 50 51-0316	EA		100 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-100W8-55K-E39).....	246.96	
26 01 50 51-0317	EA		120 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-120W8-55K-E39).....	485.01	
26 01 50 51-0318	EA		150 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-150W8-55K-E39).....	457.82	
26 01 50 51-0319	EA		200 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-200W8-55K-E39).....	485.01	
26 01 50 51-0320	EA		250 Watt, 5500K CCT, Mogul Base E39, LED Lamp (Olympic CL-250W8-55K-E39).....	487.12	
26 01 50 51-0321	EA		24 Watt, 3000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M30-A).....	71.28	
26 01 50 51-0322	EA		24 Watt, 4000K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M40-A).....	71.28	
26 01 50 51-0323	EA		24 Watt, 5700K CCT, Mogul Base E39, LED Lamp (Light Efficient Design LED-8029M57-A).....	71.28	
26 01 50 51-0324	EA		100 Watt, Mogul Base E39, LED Area Lamp (MaxLite AR100LED50).....	214.09	
<b>26 01 50 51-0325</b>			<b>LED Tubes (Fluorescent Lamp Replacement) <small>(26 01 50 51-0112)</small></b>		
26 01 50 51-0326	EA		2', 1,250 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24IN-4000K).....	25.84	
			<i>For Multiple Lamps In Fixture, Deduct</i>		-2.85
26 01 50 51-0327	EA		2', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-24INU-4000K).....	32.61	
			<i>For Multiple Lamps In Fixture, Deduct</i>		-2.85
26 01 50 51-0328	EA		3', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-36IN-4000K).....	28.32	
			<i>For Multiple Lamps In Fixture, Deduct</i>		-3.20
26 01 50 51-0329	EA		4', 1,900 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2-T8-48IN-4000K).....	30.30	
			<i>For Multiple Lamps In Fixture, Deduct</i>		-3.20
26 01 50 51-0330	EA		4', 2,200 Lumens, LED Tube (T8 Fluorescent Lamp Replacement) (Remphos RPT-TOTALTUBEG2HO-T8-48IN-4000K).....	32.84	
			<i>For Multiple Lamps In Fixture, Deduct</i>		-3.20
<b>26 01 50 51-0331</b>			<b>Filament LED Lamps <small>(26 01 50 51-0112)</small></b>		
26 01 50 51-0332	EA		7.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 7.5FA19DIM/827).....	20.97	
26 01 50 51-0333	EA		4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5A19DIM/827/R).....	20.97	
26 01 50 51-0334	EA		4.5 Watt, 2700K CCT, Clear A19 Filament LED Lamp (Green Creative 4.5FA19DIM/827).....	19.93	
26 01 50 51-0335	EA		4.5 Watt, 2400 CCT, Amber A19 Filament LED Lamp (Green Creative 4.5FA19DIM/824/A).....	19.93	

**26 Electrical**  
**26 01 Operation and Maintenance of Electrical Systems**  
**26 01 50 Operation and Maintenance of Lighting**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 51-0336 EA 4.5 Watt, 2700K CCT, Clear G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/827).....	21.59	
26 01 50 51-0337 EA 4.5 Watt, 2400 CCT, Amber G25 Globe Filament LED Lamp (Green Creative 4.5FG25DIM/824/A).....	21.59	
26 01 50 51-0338 EA 3.5 Watt, 2700K CCT, Clear B10 Candle Filament LED Lamp (Green Creative 3.5FB10DIM/827) .....	17.86	
26 01 50 51-0339 EA 3.5 Watt, 2700K CCT, Clear B11 Candle Filament LED Lamp (Green Creative 3.5FB11DIM/827/E26) .....	17.86	
26 01 50 51-0340 EA 3.5 Watt, 2400 CCT, Amber B10 Candle Filament LED Lamp (Green Creative 3.5FBA10DIM/824/FT/A).....	18.48	
26 01 50 51-0341 EA 3.5 Watt, 2400 CCT, Amber ST19 Filament LED Lamp (Green Creative 5FST19DIM/824/A) .....	23.04	
<b>26 01 50 51-0342 Other Lamps</b> (26 01 50 51-0112)		
26 01 50 51-0343 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 8A19/END/2700 DIM 6/1) .....	19.77	
26 01 50 51-0344 EA 8 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 7A19/2700 DIM).....	19.77	
26 01 50 51-0345 EA 11 Watt, Medium Base, A19, A-Shape Dimmable LED Lamp (Philips 11A19/2700 DIM).....	19.77	
26 01 50 51-0346 EA 12 Watt, Medium Base, Dimmable BR40 LED Lamp (Philips 12BR40/F90 2700 DIM AF 6/1).....	20.80	
26 01 50 51-0347 EA 13 Watt, Medium Base, Dimmable PAR38 LED Single Optic Lamp (Philips 13PAR38/S15 4000 DIM AF SO 6/1) .....	20.80	
26 01 50 51-0348 EA 8 Watt, Medium Base, Dimmable PAR20 LED Lamp (Philips 8PAR20/END/F36 3000 DIM 6/1) .....	20.80	
<b>26 01 50 51-0349 Recycle Hazardous Lamps</b> (26 01 50 51)		
Note: Includes containers, shipping costs and recycling fees. Excludes lamp removal. See CSI section 01 22 23 00-0001 for work over 14' to add appropriate aerial lift.		
26 01 50 51-0350 EA Recycle 2' Length Linear Fluorescent Lamps .....	0.25	
26 01 50 51-0351 EA Recycle 3' Length Linear Fluorescent Lamps .....	0.37	
26 01 50 51-0352 EA Recycle 4' Length Linear Fluorescent Lamps .....	0.50	
26 01 50 51-0353 EA Recycle 6' Length Linear Fluorescent Lamps .....	0.75	
26 01 50 51-0354 EA Recycle 8' Length Linear Fluorescent Lamps .....	1.00	
26 01 50 51-0355 EA Recycle Compact Fluorescent Lamps .....	0.45	
26 01 50 51-0356 EA Recycle U-Shaped Or Circular Fluorescent Lamps .....	0.45	
26 01 50 51-0357 EA Recycle High Intensity Discharge (HID) Lamps .....	1.56	
<b>26 01 50 52 Ballasts And Accessories</b> (26 01 50)		
<b>26 01 50 52-0001 Owner Supplied Ballasts</b> (26 01 50 52)		
26 01 50 52-0002 EA Install Owner Supplied, 1 Lamp Fluorescent Ballast.....	21.57	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	6.47	
26 01 50 52-0003 EA Install Owner Supplied, 2 Lamp Fluorescent Ballast.....	26.97	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	8.09	
26 01 50 52-0004 EA Install Owner Supplied, 3 Lamp Fluorescent Ballast.....	31.28	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	9.38	
26 01 50 52-0005 EA Install Owner Supplied, 4 Lamp Fluorescent Ballast.....	33.45	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	10.04	
26 01 50 52-0006 EA Install Owner Supplied, 1 Lamp High Intensity Discharge (HID) Ballast .....	37.76	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.33	
26 01 50 52-0007 EA Install Owner Supplied, 2 Lamp High Intensity Discharge (HID) Ballast .....	39.92	
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.98	
<b>26 01 50 52-0008 High Intensity Discharge (HID) Ballasts</b> (26 01 50 52)		
<b>26 01 50 52-0009 Magnetic High Intensity Discharge (HID) Ballasts</b> (26 01 50 52-0008)		
<b>26 01 50 52-0010 Core And Coil High Intensity Discharge (HID) Ballasts</b> (26 01 50 52-0009)		
<b>26 01 50 52-0011 Metal Halide, Core And Coil High Intensity Discharge (HID) Ballasts</b> (26 01 50 52-0010)		
26 01 50 52-0012 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	111.36	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.33	
26 01 50 52-0013 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	113.74	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.33	
26 01 50 52-0014 EA 1 Lamp, 250 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	113.74	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.33	
26 01 50 52-0015 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	103.04	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.33	
26 01 50 52-0016 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	103.04	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.33	
26 01 50 52-0017 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	152.37	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.33	
26 01 50 52-0018 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	152.37	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.33	
26 01 50 52-0019 EA 1 Lamp, 1,500 Watt Metal Halide, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	192.37	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.33	
26 01 50 52-0020 EA 1 Lamp, 1,500 Watt Metal Halide, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast .....	212.77	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.33	
<b>26 01 50 52-0021 High Pressure Sodium, Core And Coil High Intensity Discharge (HID) Ballasts</b> (26 01 50 52-0010)		
26 01 50 52-0022 EA 1 Lamp, 50 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	101.95	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.33	
26 01 50 52-0023 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	107.27	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.33	
26 01 50 52-0024 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast.....	104.98	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	11.33	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0025 EA 1 Lamp, 150 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	120.97 11.33	26.97
26 01 50 52-0026 EA 1 Lamp, 150 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	118.69 11.33	26.97
26 01 50 52-0027 EA 1 Lamp, 250 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.53 11.33	26.97
26 01 50 52-0028 EA 1 Lamp, 250 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	133.53 11.33	26.97
26 01 50 52-0029 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.22 11.33	26.97
26 01 50 52-0030 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	158.22 11.33	26.97
26 01 50 52-0031 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Core And Coil High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	244.84 11.33	26.97
26 01 50 52-0032 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Core And Coil High Intensity Discharge (HID) Ballast ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	244.84 11.33	26.97
<b>26 01 50 52-0033 Mounting Brackets For Core And Coil High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0010)</small>		
26 01 50 52-0034 EA Single Mounting Bracket For Core And Coil Type ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10.79 3.24	
26 01 50 52-0035 EA Double Mounting Bracket For Core And Coil Type ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.19 4.86	
<b>26 01 50 52-0036 F-Can High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0009)</small>		
<b>26 01 50 52-0037 Metal Halide, F-Can High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0036)</small>		
26 01 50 52-0038 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	137.57 9.98 11.33	26.97
26 01 50 52-0039 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	144.17 10.64 11.33	26.97
26 01 50 52-0040 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	132.57 9.48 11.33	26.97
26 01 50 52-0041 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	151.64 11.39 11.33	26.97
26 01 50 52-0042 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Pulse Start Ballast, Add</i> <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	205.06 16.73 11.33	26.97
<b>26 01 50 52-0043 High Pressure Sodium, F-Can High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0036)</small>		
26 01 50 52-0044 EA 1 Lamp, 70 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	162.59 11.33	26.97
26 01 50 52-0045 EA 1 Lamp, 100 Watt High Pressure Sodium, 120/277 Volt, F-Can High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	172.88 11.33	26.97
<b>26 01 50 52-0046 Postline High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0009)</small>		
<b>26 01 50 52-0047 Metal Halide, Postline High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0046)</small>		
26 01 50 52-0048 EA 1 Lamp, 50 Watt Metal Halide, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	261.25 11.33	26.97
<b>26 01 50 52-0049 High Pressure Sodium, Postline High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0046)</small>		
26 01 50 52-0050 EA 1 Lamp, 70 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	394.92 11.33	26.97
26 01 50 52-0051 EA 1 Lamp, 100 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	438.79 11.33	26.97
26 01 50 52-0052 EA 1 Lamp, 150 Watt High Pressure Sodium, 120 Volt, Postline High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	423.61 11.33	26.97
<b>26 01 50 52-0053 Indoor Enclosed High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0009)</small>		
<b>26 01 50 52-0054 Metal Halide, Indoor Enclosed High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0053)</small>		
26 01 50 52-0055 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	318.40 11.33	26.97
26 01 50 52-0056 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	359.48 11.33	26.97
26 01 50 52-0057 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	470.27 11.33	26.97
26 01 50 52-0058 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	467.88 11.33	26.97
26 01 50 52-0059 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	650.69 11.98	29.13

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0060 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	650.69	29.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.98	
26 01 50 52-0061 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	451.58	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0062 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	528.79	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
<b>26 01 50 52-0063 High Pressure Sodium, Indoor Enclosed High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0053)</small>		
26 01 50 52-0064 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	581.89	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0065 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	554.68	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0066 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	708.96	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0067 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Indoor Enclosed High Intensity Discharge (HID) Ballast.....	708.96	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
<b>26 01 50 52-0068 Outdoor Weatherproof High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0009)</small>		
<b>26 01 50 52-0069 Metal Halide, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0068)</small>		
26 01 50 52-0070 EA 1 Lamp, 175 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	356.04	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0071 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	383.46	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0072 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	380.76	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0073 EA 1 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	399.13	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0074 EA 2 Lamp, 400 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	626.73	29.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.98	
26 01 50 52-0075 EA 2 Lamp, 400 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	767.00	29.13
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.98	
26 01 50 52-0076 EA 1 Lamp, 1,000 Watt Metal Halide, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	585.08	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0077 EA 1 Lamp, 1,000 Watt Metal Halide, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	533.93	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
<b>26 01 50 52-0078 High Pressure Sodium, Outdoor Weatherproof High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0068)</small>		
26 01 50 52-0079 EA 1 Lamp, 400 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	455.53	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0080 EA 1 Lamp, 400 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	490.12	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0081 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 120/277 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	724.93	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0082 EA 1 Lamp, 1,000 Watt High Pressure Sodium, 480 Volt, Outdoor Weatherproof High Intensity Discharge (HID) Ballast.....	625.72	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
<b>26 01 50 52-0083 Electronic High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0008)</small>		
<b>26 01 50 52-0084 Electronic Low Frequency High Intensity Discharge (HID) Ballasts</b> <small>(26 01 50 52-0083)</small>		
26 01 50 52-0085 EA 1 Lamp, 70 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	150.72	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0086 EA 1 Lamp, 100 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	150.72	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0087 EA 1 Lamp, 150 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	168.06	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0088 EA 1 Lamp, 250 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	410.96	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0089 EA 1 Lamp, 300 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	410.96	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0090 EA 1 Lamp, 320 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	410.96	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0091 EA 1 Lamp, 350 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	410.96	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
26 01 50 52-0092 EA 1 Lamp, 400 Watt Metal Halide, 120/277 Volt, Electronic Low Frequency High Intensity Discharge (HID) Ballast.....	410.96	26.97
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.33	
<b>26 01 50 52-0093 Retrofit Lighting Fixtures</b> <small>(26 01 50 52)</small>		
<b>26 01 50 52-0094 Retrofit Existing Fixtures</b> <small>(26 01 50 52-0093)</small>		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**26 01 50 52-0095**    **LED Lighting Retrofits For Existing Downlight Fixtures (GreenCreative)** (26 01 50 52-0094)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0349 for disposal of hazardous lamps.

26 01 50 52-0096	EA	15 Watt, 7" Round Downlight, 2700K CCT, LED Retrofit (GreenCreative 15SMR7DIM/927)		104.47	
26 01 50 52-0097	EA	15 Watt, 7" Round Downlight, 3000K CCT, LED Retrofit (GreenCreative 15SMR7DIM/930)		104.47	
26 01 50 52-0098	EA	15 Watt, 7" Round Downlight, 4000K CCT, LED Retrofit (GreenCreative 15SMR7DIM/940)		104.47	
26 01 50 52-0099	EA	8.5 Watt, 4" Diameter, 2700K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/827)		84.78	
26 01 50 52-0100	EA	8.5 Watt, 4" Diameter, 3000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/830)		84.78	
26 01 50 52-0101	EA	8.5 Watt, 4" Diameter, 4000K CCT, THINFIT LED Downlight, (GreenCreative 8.5DLNC4DIM/840)		84.78	
26 01 50 52-0102	EA	11.6 Watt, 6" Diameter, 2700K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/827)		93.07	
26 01 50 52-0103	EA	11.6 Watt, 6" Diameter, 3000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/830)		93.07	
26 01 50 52-0104	EA	11.6 Watt, 6" Diameter, 4000K CCT, THINFIT LED Downlight, (GreenCreative 11.6DLNC6DIM/840)		93.07	

**26 01 50 52-0105**    **LED Lighting Retrofits For Existing Site Fixtures (Daylight Technology)** (26 01 50 52-0094)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0349 for disposal of hazardous lamps.

26 01 50 52-0106	EA	23 Watt, 2,300 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-20w)		313.18	
26 01 50 52-0107	EA	33 Watt, 3,300 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-30w)		325.62	
26 01 50 52-0108	EA	44 Watt, 4,400 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-40w)		338.06	
26 01 50 52-0109	EA	54 Watt, 5,400 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-50w)		352.65	
26 01 50 52-0110	EA	65 Watt, 6,500 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-60w)		388.92	
26 01 50 52-0111	EA	75 Watt, 7,600 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-70w)		403.52	
26 01 50 52-0112	EA	86 Watt, 8,600 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-80w)		437.73	
26 01 50 52-0113	EA	96 Watt, 9,600 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-90w)		450.17	
26 01 50 52-0114	EA	107 Watt, 10,700 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-100w)		464.76	
26 01 50 52-0115	EA	117 Watt, 11,700 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-110w)		487.57	
26 01 50 52-0116	EA	128 Watt, 12,800 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-120w)		511.48	
26 01 50 52-0117	EA	138 Watt, 13,800 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-130w)		535.32	
26 01 50 52-0118	EA	149 Watt, 14,900 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-140w)		547.76	
26 01 50 52-0119	EA	161 Watt, 16,100 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-150w)		568.49	
26 01 50 52-0120	EA	172 Watt, 17,200 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-160w)		592.46	
26 01 50 52-0121	EA	182 Watt, 18,200 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-170w)		618.37	
26 01 50 52-0122	EA	193 Watt, 19,300 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-180w)		657.76	
26 01 50 52-0123	EA	203 Watt, 20,300 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-190w)		675.38	
26 01 50 52-0124	EA	214 Watt, 21,400 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-200w)		705.53	
26 01 50 52-0125	EA	224 Watt, 22,400 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-210w)		745.95	
26 01 50 52-0126	EA	235 Watt, 23,500 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-220w)		766.68	
26 01 50 52-0127	EA	245 Watt, 24,500 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-230w)		815.52	
26 01 50 52-0128	EA	256 Watt, 25,600 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-240w)		861.13	
26 01 50 52-0129	EA	266 Watt, 26,600 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-250w)		892.31	
26 01 50 52-0130	EA	277 Watt, 27,700 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-260w)		936.88	
26 01 50 52-0131	EA	287 Watt, 28,700 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-270w)		1,022.99	
26 01 50 52-0132	EA	298 Watt, 29,800 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-280w)		1,033.35	
26 01 50 52-0133	EA	319 Watt, 31,900 Lumens, LED Site Retrofit Plate (Daylight Technology DL-S-300w)		1,059.40	

**26 01 50 52-0134**    **LED Lighting Retrofits For Existing Fixtures (Optilumen)** (26 01 50 52-0094)

Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0349 for disposal of hazardous lamps.

26 01 50 52-0135	EA	20 Watt, 1 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT1418M-35)		130.64	
		Note: Fits 1' x 4' Troffer/Strip			
26 01 50 52-0136	EA	20 Watt, 1 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT1418M-40)		130.64	
		Note: Fits 1' x 4' Troffer/Strip			
26 01 50 52-0137	EA	20 Watt, 1 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT1418M-50)		130.64	
		Note: Fits 1' x 4' Troffer/Strip			
26 01 50 52-0138	EA	30 Watt, 2 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT2415M-35)		135.82	
		Note: Fits 2' x 4' Troffer/Strip			
26 01 50 52-0139	EA	30 Watt, 2 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT2415M-40)		135.82	
		Note: Fits 2' x 4' Troffer/Strip			
26 01 50 52-0140	EA	30 Watt, 2 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT2415M-50)		135.82	
		Note: Fits 2' x 4' Troffer/Strip			
26 01 50 52-0141	EA	40 Watt, 2 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT2418M-35)		146.19	
		Note: Fits 2' x 4' Troffer/Strip			
26 01 50 52-0142	EA	40 Watt, 2 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT2418M-40)		146.19	
		Note: Fits 2' x 4' Troffer/Strip			
26 01 50 52-0143	EA	40 Watt, 2 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT2418M-50)		146.19	
		Note: Fits 2' x 4' Troffer/Strip			
26 01 50 52-0144	EA	30 Watt, 3 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT3415M-35)		135.82	
		Note: Fits 2' x 4' Troffer/Strip			
26 01 50 52-0145	EA	30 Watt, 3 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT3415M-40)		135.82	
		Note: Fits 2' x 4' Troffer/Strip			
26 01 50 52-0146	EA	30 Watt, 3 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT3415M-50)		135.82	
		Note: Fits 2' x 4' Troffer/Strip			
26 01 50 52-0147	EA	40 Watt, 3 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT3418M-35)		146.19	
		Note: Fits 2' x 4' Troffer/Strip			
26 01 50 52-0148	EA	40 Watt, 3 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT3418M-40)		146.19	
		Note: Fits 2' x 4' Troffer/Strip			

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0149 EA 40 Watt, 3 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT3418M-50).....	146.19	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 52-0150 EA 50 Watt, 3 x 42", 3500L CCT, LED Retrofit Kit (Optilumen RKT3424M-35).....	166.92	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 52-0151 EA 50 Watt, 3 x 42", 4000L CCT, LED Retrofit Kit (Optilumen RKT3424M-40).....	166.92	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 52-0152 EA 50 Watt, 3 x 42", 5000L CCT, LED Retrofit Kit (Optilumen RKT3424M-50).....	166.92	
Note: Fits 2' x 4' Troffer/Strip		
26 01 50 52-0153 EA 10 Watt, 1 x 21", 3500L CCT, LED Retrofit Kit (Optilumen RKT1209M-35).....	130.64	
Note: Fits 1' x 2' Troffer/Strip		
26 01 50 52-0154 EA 10 Watt, 1 x 21", 4000L CCT, LED Retrofit Kit (Optilumen RKT1209M-40).....	130.64	
Note: Fits 1' x 2' Troffer/Strip		
26 01 50 52-0155 EA 10 Watt, 1 x 21", 5000L CCT, LED Retrofit Kit (Optilumen RKT1209M-50).....	130.64	
Note: Fits 1' x 2' Troffer/Strip		
26 01 50 52-0156 EA 22 Watt, 2 x 21", 3500L CCT, LED Retrofit Kit (Optilumen RKT2209M-35).....	130.64	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 52-0157 EA 22 Watt, 2 x 21", 4000L CCT, LED Retrofit Kit (Optilumen RKT2209M-40).....	130.64	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 52-0158 EA 22 Watt, 2 x 21", 5000L CCT, LED Retrofit Kit (Optilumen RKT2209M-50).....	130.64	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 52-0159 EA 20 Watt, 3 x 21", 3500L CCT, LED Retrofit Kit (Optilumen RKT3209M-35).....	135.82	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 52-0160 EA 20 Watt, 3 x 21", 4000L CCT, LED Retrofit Kit (Optilumen RKT3209M-40).....	135.82	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 52-0161 EA 20 Watt, 3 x 21", 5000L CCT, LED Retrofit Kit (Optilumen RKT3209M-50).....	135.82	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 52-0162 EA 30 Watt, 3 x 21", 3500L CCT, LED Retrofit Kit (Optilumen RKT3210M-35).....	142.04	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 52-0163 EA 30 Watt, 3 x 21", 4000L CCT, LED Retrofit Kit (Optilumen RKT3210M-40).....	142.04	
Note: Fits 2' x 2' Troffer/Strip		
26 01 50 52-0164 EA 30 Watt, 3 x 21", 5000L CCT, LED Retrofit Kit (Optilumen RKT3210M-50).....	142.04	
Note: Fits 2' x 2' Troffer/Strip		
<b>26 01 50 52-0165 LED Lighting Retrofits For Existing Lay-In/Troffer Fixtures (LG)</b> <small>(26 01 50 52-0094)</small>		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0349 for disposal of hazardous lamps.		
26 01 50 52-0166 EA 34 Watt, 3,500K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-35-4400-R(W)-SN).....	303.19	
26 01 50 52-0167 EA 34 Watt, 4,000K CCT, 2' x 4', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X4RT-34-40-4500-R(W)-SN).....	303.19	
26 01 50 52-0168 EA 26 Watt, 3,500K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-35-3400-R(W)-SN).....	273.13	
26 01 50 52-0169 EA 26 Watt, 4,000K CCT, 2' x 2', Retrofit Troffer LED Fixture With Sensor (LG LGE-2X2RT-26-40-3400-R(W)-SN).....	273.13	
26 01 50 52-0170 EA 25 Watt, 3250lm, 3500K Layin Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-35-3200-RV).....	133.54	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0171 EA 25 Watt, 3250lm, 4000K Layin Retrofit 2' x 2' Troffer (LG LGE-2X2SI-25-40-3200-RV).....	133.54	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0172 EA 31 Watt, 4050lm, 3500K Layin Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-35-3200-RV).....	153.24	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0173 EA 31 Watt, 4050lm, 4000K Layin Retrofit 2' x 4' Troffer (LG LGE-2X2SI-31-40-3200-RV).....	153.24	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0174 EA 25 Watt, 3250lm, 3500K Layin Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-35-3200-RV).....	167.75	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 52-0175 EA 25 Watt, 3250lm, 4000K Layin Retrofit 2' x 2' Troffer With Sensor Connect (LG LGE-2X2SC-25-40-3200-RV).....	167.75	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 52-0176 EA 31 Watt, 3250lm, 3500K Layin Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-35-3200-RV).....	172.93	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 52-0177 EA 31 Watt, 3250lm, 4000K Layin Retrofit 2' x 4' Troffer With Sensor Connect (LG LGE-2X2SC-31-40-3200-RV).....	172.93	
Note: Factory installed sensor and ZigBee dongle		
26 01 50 52-0178 EA 2' x 2' 2-Board, 25 Watt, 3120lm, 3500k Retrofit Board Kits (LG LGE-2BDK-25-35-3120).....	103.48	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0179 EA 2' x 2' 2-Board, 25 Watt, 3120lm, 4000k Retrofit Board Kits (LG LGE-2BDK-25-40-3120).....	103.48	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0180 EA 2' x 4' 4-Board, 31 Watt, 3120lm, 3500k Retrofit Board Kits (LG LGE-4BDK-31-35-3880).....	115.92	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0181 EA 2' x 4' 4-Board, 31 Watt, 3120lm, 4000k Retrofit Board Kits (LG LGE-4BDK-31-40-3880).....	115.92	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0182 EA 2' x 2' 2-Board, 25 Watt, 3120lm, 3500k With Lens Retrofit Board Kits (LG LGE-2BDK-25-35-3120-L).....	106.59	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0183 EA 2' x 2' 2-Board, 25 Watt, 3120lm, 4000k With Lens Retrofit Board Kits (LG LGE-2BDK-25-40-3120-L).....	106.59	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0184 EA 2' x 4' 4-Board, 31 Watt, 3120lm, 3500k With Lens Retrofit Board Kits (LG LGE-4BDK-31-35-3880-L).....	119.03	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0185 EA 2' x 4' 4-Board, 31 Watt, 3120lm, 4000k With Lens Retrofit Board Kits (LG LGE-4BDK-31-40-3880-L).....	119.03	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0186 EA 6" 16 Watt, 1450lm, 3500k Comm Retrofit Downlight (LG LGE-CRDL-16-35-1450).....	105.56	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0187 EA 6" 16 Watt, 1450lm, 4000k Comm Retrofit Downlight (LG LGE-CRDL-16-40-1450).....	105.56	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0188 EA 8" 22 Watt, 2000lm, 3500k Comm Retrofit Downlight (LG LGE-CRDL-22-35-2000).....	114.89	
Note: No sensor, ZigBee ready driver		
26 01 50 52-0189 EA 8" 22 Watt, 2000lm, 4000k Comm Retrofit Downlight (LG LGE-CRDL-22-40-2000).....	114.89	
Note: No sensor, ZigBee ready driver		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0190				<b>LED Lighting Retrofit Accessories (LG)</b> <small>(26 01 50 52-0094)</small> See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0349 for disposal of hazardous lamps.		
	26 01 50 52-0191	EA		Dongle (LG LGE-DONGLE).....	15.29	
	26 01 50 52-0192	EA		1-group On/Off/Dim, 2-Button, Wireless Switch (LG LGE-SWITCH-BAT-2B).....	82.67	12.31
	26 01 50 52-0193	EA		2-group On/Off/Dim, 4-Button, Wireless Switch (LG LGE-SWITCH-BAT-4B).....	87.59	14.78
	26 01 50 52-0194	EA		1-group On/Off/Dim, 2-Button, AC Powered Switch (LG LGE-SWITCH-AC-2B).....	103.40	12.31
	26 01 50 52-0195	EA		2-group On/Off/Dim, 4-Button, AC Powered Switch (LG LGE-SWITCH-AC-4B).....	108.32	14.78
	26 01 50 52-0196	EA		Photo, Motion Sensor With ZigBee Dongle plugin (LG LGE-MULTI-SENSOR).....	55.98	9.85
	26 01 50 52-0197	EA		Tube Clip For Multi Sensor (LG LGE-TUBE-CLIP).....	23.97	9.85
	26 01 50 52-0198	EA		Ceiling Plate For Multi Sensor (LG LGE-CEILING-PLATE).....	25.18	9.85
	26 01 50 52-0199	EA		Wireless Interface Module (LG PIHN-W005A).....	57.02	14.78
				Note: includes dongle		
26 01 50 52-0200				<b>Retrofit Existing (T12) Fluorescent Fixtures</b> <small>(26 01 50 52-0093)</small> Note: Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 02 84 16 00-0008 for leaking ballast disposal, 26 01 50 51-0349 for hazardous lamp recycling.		
26 01 50 52-0201				<b>Retrofit Existing (T12) Strip Style Fluorescent Fixtures Without Reflector</b> <small>(26 01 50 52-0200)</small> Note: Includes ballast, white reflective ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
	26 01 50 52-0202	EA		Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate One 4' (T8) Lamp.....	70.90	
				For Specular Ballast Cover, Add	6.63	
	26 01 50 52-0203	EA		Retrofit An Existing 4' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps.....	76.03	
				For Specular Ballast Cover, Add	7.65	
	26 01 50 52-0204	EA		Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Two 4' (T8) Lamps.....	98.03	
				For Specular Ballast Cover, Add	12.05	
	26 01 50 52-0205	EA		Retrofit An Existing 8' (T12) Strip Style Fixture Without Reflector To Operate Four 4' (T8) Lamps.....	112.36	
				For Specular Ballast Cover, Add	14.92	
26 01 50 52-0206				<b>Retrofit Existing (T12) Strip Style Fluorescent Fixtures With Reflector</b> <small>(26 01 50 52-0200)</small> Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
	26 01 50 52-0207	EA		Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate One 4' (T8) Lamp.....	74.14	
				For Specular Reflector, Add	7.28	
	26 01 50 52-0208	EA		Retrofit An Existing 4' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps.....	79.65	
				For Specular Reflector, Add	8.38	
	26 01 50 52-0209	EA		Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Two 4' (T8) Lamps.....	102.56	
				For Specular Reflector, Add	12.96	
	26 01 50 52-0210	EA		Retrofit An Existing 8' (T12) Strip Style Fixture With Reflector To Operate Four 4' (T8) Lamps.....	126.78	
				For Specular Reflector, Add	17.80	
26 01 50 52-0211				<b>Retrofit Existing (T12) Troffer Style Fluorescent Fixtures</b> <small>(26 01 50 52-0200)</small> Note: Includes ballast, white reflector and ballast cover, lamps, lamp holders, clips, wiring, cable connectors and cleaning of fixture.		
	26 01 50 52-0212	EA		Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate One 4' (T8) Lamps.....	93.34	
				For Specular Reflector, Add	8.96	
	26 01 50 52-0213	EA		Retrofit An Existing 1 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps.....	98.47	
				For Specular Reflector, Add	9.98	
	26 01 50 52-0214	EA		Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Two 2' (T8) Lamps.....	96.88	
				For Specular Reflector, Add	9.67	
	26 01 50 52-0215	EA		Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Three 2' (T8) Lamps.....	105.77	
				For Specular Reflector, Add	11.44	
	26 01 50 52-0216	EA		Retrofit An Existing 2 x 2 (T12) Troffer Style Fixture To Operate Four 2' (T8) Lamps.....	122.75	
				For Specular Reflector, Add	14.84	
	26 01 50 52-0217	EA		Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Two 4' (T8) Lamps.....	102.35	
				For Specular Reflector, Add	10.76	
	26 01 50 52-0218	EA		Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Three 4' (T8) Lamps.....	111.38	
				For Specular Reflector, Add	12.57	
	26 01 50 52-0219	EA		Retrofit An Existing 2 x 4 (T12) Troffer Style Fixture To Operate Four 4' (T8) Lamps.....	119.27	
				For Specular Reflector, Add	14.14	
26 01 50 52-0220				<b>Retrofit Existing Recessed Lay-In/Troffer Fixtures</b> <small>(26 01 50 52-0093)</small>		
26 01 50 52-0221				<b>Fluorescent Volumetric Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Lithonia)</b> <small>(26 01 50 52-0220)</small> Note: Includes removing existing lamps and ballast. Includes installing adaptor frame, volumetric reflectors, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0349 for disposal of hazardous lamps.		
	26 01 50 52-0222	EA		2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	167.38	
	26 01 50 52-0223	EA		2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	167.38	
	26 01 50 52-0224	EA		2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	167.38	
	26 01 50 52-0225	EA		2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R).....	183.85	
	26 01 50 52-0226	EA		2 T8 Lamps, 0.78 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT).....	167.38	

**26 Electrical****26 01 Operation and Maintenance of Electrical Systems****26 01 50 Operation and Maintenance of Lighting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0227 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....	167.38	
26 01 50 52-0228 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....	167.38	
26 01 50 52-0229 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 4', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....	183.85	
26 01 50 52-0230 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R) .....	167.38	
26 01 50 52-0231 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R) .....	167.38	
26 01 50 52-0232 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R) .....	167.38	
26 01 50 52-0233 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Parabolic Recessed Fluorescent Fixtures (Lithonia 2RT8R) .....	183.85	
26 01 50 52-0234 EA 2 T8 Lamps, 0.78 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....	167.38	
26 01 50 52-0235 EA 2 T8 Lamps, 0.88 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....	167.38	
26 01 50 52-0236 EA 2 T8 Lamps, 1.20 Ballast Factor, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....	167.38	
26 01 50 52-0237 EA 2 T8 Lamps, 0.88 Ballast Factor, Step Dimming Ballast, 2' x 2', Volumetric Lighting Retrofit For Existing Lensed Recessed Fluorescent Fixtures (Lithonia 2RT8RT) .....	183.85	
<b>26 01 50 52-0238 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (PlanLED)</b> <small>(26 01 50 52-0220)</small>		
Note: Includes adaptor frame, optical system, LEDs and driver. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0349 for disposal of hazardous lamps.		
26 01 50 52-0239 EA 2,400 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-025) .....	250.24	
26 01 50 52-0240 EA 4,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (PlanLED FR3E-045) .....	261.45	
<b>26 01 50 52-0241 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Raffino™)</b> <small>(26 01 50 52-0220)</small>		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0349 for disposal of hazardous lamps.		
26 01 50 52-0242 EA 1,800 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-1800L) .....	206.49	
26 01 50 52-0243 EA 2,600 Lumens, 1' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR14-2700L) .....	211.00	
26 01 50 52-0244 EA 2,200 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-2200L) .....	206.49	
26 01 50 52-0245 EA 3,300 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR22-3300L) .....	211.00	
26 01 50 52-0246 EA 3,300 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-3000L) .....	233.56	
26 01 50 52-0247 EA 4,150 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-4000L) .....	240.33	
26 01 50 52-0248 EA 5,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Raffino™ LR24-5000L) .....	256.12	
<b>26 01 50 52-0249 LED Architectural Lighting Retrofits For Existing Recessed Lay-In/Troffer Fixtures (Orion)</b> <small>(26 01 50 52-0220)</small>		
Note: Includes removing existing lamps and disconnecting existing ballast. Includes installing adaptor frame, LED light panel, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0349 for disposal of hazardous lamps.		
26 01 50 52-0250 EA 3,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-030L-FO-UNV-FDX-840-22-1P-CT-M-ST) .....	192.68	
26 01 50 52-0251 EA 3,500 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-035L-FO-UNV-FDX-840-22-1P-CT-M-ST) .....	198.97	
26 01 50 52-0252 EA 3,200 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-032L-FO-UNV-FDX-840-24-1P-CT-M-ST) .....	200.86	
26 01 50 52-0253 EA 3,800 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDR-038L-FO-UNV-FDX-840-24-1P-CT-M-ST) .....	207.15	
26 01 50 52-0254 EA 2,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1A1UNVFDSX84022MST) .....	150.19	
26 01 50 52-0255 EA 4,000 Lumens, 2' x 2', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1B1UNVFDSX84022MST) .....	153.18	
26 01 50 52-0256 EA 3,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1D1UNVFDSX84024MST) .....	157.97	
26 01 50 52-0257 EA 4,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1E1UNVFDSX84024MST) .....	160.96	
26 01 50 52-0258 EA 6,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (Orion LDRE1F1UNVFDSX84024MST) .....	194.44	
26 01 50 52-0259 EA 8,000 Lumens, 2' x 4', LED Architectural Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (ORION LDRE1G1UNVFDSX84024MST) .....	227.92	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 01 50 52-0260		<b>Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)</b> <small>(26 01 50 52-0220)</small>		
		Note: Includes adaptor frame, optical system, lamps and ballasts. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0349 for disposal of hazardous lamps.		
26 01 50 52-0261	EA	1 T5 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	164.93	
26 01 50 52-0262	EA	1 T8 Lamp, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	129.69	
26 01 50 52-0263	EA	2 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	166.62	
26 01 50 52-0264	EA	2 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	131.10	
26 01 50 52-0265	EA	3 T5 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	171.70	
26 01 50 52-0266	EA	3 T8 Lamps, 2' x 2', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	138.59	
26 01 50 52-0267	EA	1 T5 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	193.44	
26 01 50 52-0268	EA	1 T8 Lamp, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	158.02	
26 01 50 52-0269	EA	2 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	195.22	
26 01 50 52-0270	EA	2 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	159.50	
26 01 50 52-0271	EA	3 T5 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	200.56	
26 01 50 52-0272	EA	3 T8 Lamps, 2' x 4', Fluorescent Direct-Indirect Louver Lighting Retrofit For Existing Recessed Lay-In/Troffer Fixtures (A.L.P. Lighting Components)	167.21	
26 01 50 52-0273		<b>LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT)</b> <small>(26 01 50 52-0220)</small>		
		Note: Includes removing existing lamps and ballast. Includes installing LED light engine assembly, dimming driver and trim. Excludes recycling or disposal of lamps and ballasts. See CSI section 02 84 16 00-0003 for ballast recycling, 26 01 50 51-0349 for disposal of hazardous lamps.		
26 01 50 52-0274	EA	3,300 Lumens, 2' x 2', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL2R/RT)	364.85	
26 01 50 52-0275	EA	4,800 Lumens, 2' x 4', LED Volumetric Lighting Retrofit For Existing Lensed Or Parabolic Recessed Lay-In/Troffer Fixtures (Lithonia 2VTL4R/RT)	403.29	
26 01 50 53		<b>Lens and Accessory Replacement</b> <small>(26 01 50)</small>		
26 01 50 53-0001	EA	Parabolic Aluminum Louver Replacement	107.85	
26 01 50 53-0002	EA	Visor For Fixtures	206.94	
26 01 50 53-0003	EA	Replace Globe On Pole	260.30	
26 01 50 53-0004	EA	Replace Lenses For Flat Top Pole Fixtures	96.80	
26 01 50 53-0005	EA	Replace 1' x 4' Diffuser With Prismatic Acrylic Diffuser, 0.125" Thick	31.27	
26 01 50 53-0006	EA	Replace 2' x 2' Diffuser With Prismatic Acrylic Diffuser, 0.125" Thick	32.83	
26 01 50 53-0007	EA	Replace 2' x 4' Diffuser With Prismatic Acrylic Diffuser, 0.125" Thick	39.58	
26 01 50 53-0008	EA	Replace Slide-On Lampholder	13.23	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.24	
26 01 50 53-0009	EA	Replace Screw Mount Lampholder	13.47	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.24	
26 01 50 53-0010	EA	Replace Medium Bi-Pin Lampholder	15.53	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.24	
26 01 50 53-0011	EA	Replace Fixed High Output Lampholder, Recessed, Double Contact Double Pedestal Type	18.70	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.24	
26 01 50 53-0012	EA	Replace Plunger High Output Lampholder, Recessed, Double Contact Double Pedestal Type	20.76	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.24	
26 01 50 53-0013	EA	Replace Compact Twin-Tube Lampholder, Snap-in	15.22	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3.24	
26 01 50 53-0014	EA	Replace Exterior Light Globes	47.81	
26 05		<b>Common Work Results For Electrical</b> <small>(26)</small>		
26 05 13		<b>Medium-Voltage Cables</b> <small>(26 05)</small>		
26 05 13 00-0001		<b>Wire And Cable</b> <small>(26 05 13)</small>		
		Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.		
26 05 13 00-0002		<b>5 KV Cable</b> <small>(26 05 13 00-0001)</small>		
26 05 13 00-0003		<b>Pulled In Duct, Cross-Linked Polyethylene (XLP) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation</b> <small>(26 05 13 00-0002)</small>		
26 05 13 00-0004	MLF	#6 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	2,970.94	816.25
26 05 13 00-0005	MLF	#4 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	3,485.96	891.26
26 05 13 00-0006	MLF	#2 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	4,137.18	1,006.99
26 05 13 00-0007	MLF	#1/0 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor	5,341.56	1,240.64



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
26 05 13 00-0008	MLF #2/0 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor .....	6,077.36	1,397.08
26 05 13 00-0009	MLF #3/0 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor .....	7,392.02	1,550.73
26 05 13 00-0010	MLF #4/0 AWG Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor .....	8,319.19	1,742.40
26 05 13 00-0011	MLF 250 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor .....	9,822.45	1,938.49
26 05 13 00-0012	MLF 350 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor .....	11,472.65	2,314.52
26 05 13 00-0013	MLF 500 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor .....	14,383.22	2,720.66
26 05 13 00-0014	MLF 750 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor .....	18,885.26	2,326.14
26 05 13 00-0015	MLF 1,000 MCM Cable, XLP, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor .....	27,788.84	3,692.29
<b>26 05 13 00-0016 Direct Burial, Cross-Linked Polyethylene (XLP) Insulated, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)</b>			
Note: Excludes excavation.			
26 05 13 00-0017	MLF #6 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	2,868.93	
26 05 13 00-0018	MLF #4 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	3,196.32	
26 05 13 00-0019	MLF #2 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	3,558.18	
26 05 13 00-0020	MLF #1/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,370.20	
26 05 13 00-0021	MLF #2/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,714.82	
26 05 13 00-0022	MLF #3/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	5,836.62	
26 05 13 00-0023	MLF #4/0 AWG Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	6,284.62	
26 05 13 00-0024	MLF 250 MCM Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	7,493.78	
26 05 13 00-0025	MLF 350 MCM Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	8,305.75	
26 05 13 00-0026	MLF 500 MCM Cable, XLP, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	10,292.75	
<b>26 05 13 00-0027 Aerial, Cross-Linked Polyethylene (XLP) Insulated, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)</b>			
Note: Installed on poles.			
26 05 13 00-0028	MLF #6 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation .....	2,280.96	516.94
26 05 13 00-0029	MLF #4 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation .....	2,706.11	554.27
26 05 13 00-0030	MLF #2 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation .....	3,450.89	700.92
26 05 13 00-0031	MLF #1/0 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation .....	4,463.07	850.90
26 05 13 00-0032	MLF #2/0 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation .....	5,194.30	998.88
26 05 13 00-0033	MLF #3/0 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation .....	6,499.64	1,142.32
26 05 13 00-0034	MLF #4/0 AWG Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation .....	7,425.93	1,325.42
26 05 13 00-0035	MLF 250 MCM Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation .....	9,332.75	1,667.47
26 05 13 00-0036	MLF 350 MCM Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation .....	11,198.46	2,109.86
26 05 13 00-0037	MLF 500 MCM Cable, XLP, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation .....	14,507.25	2,650.84
<b>26 05 13 00-0038 5 KV Non-Shielded Single Copper Conductor (26 05 13 00-0002)</b>			
26 05 13 00-0039	MLF 1/0 5 KV Non-Shielded, Single Copper Conductor .....	6,392.26	1,626.67
26 05 13 00-0040	MLF 3/0 5 KV Non-Shielded, Single Copper Conductor .....	8,137.19	1,673.43
26 05 13 00-0041	MLF 4/0 5 KV Non-Shielded, Single Copper Conductor .....	8,462.03	1,710.41
26 05 13 00-0042	MLF 350 MCM 5 KV Non-Shielded, Single Copper Conductor.....	10,004.23	1,775.66
26 05 13 00-0043	MLF 500 MCM 5 KV Non-Shielded, Single Copper Conductor.....	13,954.60	1,860.92
26 05 13 00-0044	MLF 750 MCM 5 KV Non-Shielded, Single Copper Conductor.....	21,319.21	2,326.14
26 05 13 00-0045	MLF 1,000 MCM 5 KV Non-Shielded, Single Copper Conductor.....	24,808.04	3,101.56
<b>26 05 13 00-0046 Placed In Duct, Ethylene-Propylene Rubber (EPR) Insulation, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)</b>			
26 05 13 00-0047	MLF #6 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	3,138.43	816.25
26 05 13 00-0048	MLF #4 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	3,712.38	891.26
26 05 13 00-0049	MLF #2 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	4,428.73	1,006.99
26 05 13 00-0050	MLF #1 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	5,086.59	1,123.76
26 05 13 00-0051	MLF #1/0 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	5,744.76	1,240.64
26 05 13 00-0052	MLF #2/0 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	6,542.59	1,397.08
26 05 13 00-0053	MLF #3/0 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	8,024.74	1,550.73
26 05 13 00-0054	MLF #4/0 AWG Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	9,032.56	1,742.40
26 05 13 00-0055	MLF 250 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	10,718.18	1,938.49
26 05 13 00-0056	MLF 350 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	12,496.17	2,314.52
26 05 13 00-0057	MLF 500 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	15,747.91	2,720.66
26 05 13 00-0058	MLF 750 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	21,237.84	2,326.14
26 05 13 00-0059	MLF 1,000 MCM Cable, EPR, 5 KV, Placed In Conduit, Shielded, Single Copper Conductor.....	31,129.29	3,692.29
<b>26 05 13 00-0060 Direct Burial, Ethylene-Propylene Rubber (EPR) Insulated, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)</b>			
Note: Excludes excavation.			
26 05 13 00-0061	MLF #6 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	3,036.42	
26 05 13 00-0062	MLF #4 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	3,422.74	
26 05 13 00-0063	MLF #2 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	3,849.73	
26 05 13 00-0064	MLF #1 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,312.00	
26 05 13 00-0065	MLF #1/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	4,773.40	
26 05 13 00-0066	MLF #2/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	5,180.06	
26 05 13 00-0067	MLF #3/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	6,469.34	
26 05 13 00-0068	MLF #4/0 AWG Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	6,997.99	
26 05 13 00-0069	MLF 250 MCM Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	8,389.52	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 00-0070 MLF 350 MCM Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	9,329.27	
26 05 13 00-0071 MLF 500 MCM Cable, EPR, 5 KV, Direct Burial, Shielded, Single Copper Conductor, 133% Insulation.....	11,657.44	
<b>26 05 13 00-0072 Aerial, Ethylene-Propylene Rubber (EPR) Insulated, 5 KV, Shielded, Single Copper Conductor, 133 Percent Insulation (26 05 13 00-0002)</b>		
Note: Installed on poles.		
26 05 13 00-0073 MLF #6 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	2,448.45	516.94
26 05 13 00-0074 MLF #4 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	2,932.53	554.27
26 05 13 00-0075 MLF #2 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	3,742.44	700.92
26 05 13 00-0076 MLF #1 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	4,302.98	775.36
26 05 13 00-0077 MLF #1/0 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	4,866.27	850.90
26 05 13 00-0078 MLF #2/0 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	5,659.53	998.88
26 05 13 00-0079 MLF #3/0 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	7,132.36	1,142.32
26 05 13 00-0080 MLF #4/0 AWG Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	8,139.30	1,325.42
26 05 13 00-0081 MLF 250 MCM Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	10,228.49	1,667.47
26 05 13 00-0082 MLF 350 MCM Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	12,221.98	2,109.86
26 05 13 00-0083 MLF 500 MCM Cable, EPR, 5 KV, On Poles, Shielded, Single Copper Conductor, 133% Insulation.....	15,871.94	2,650.84
<b>26 05 13 00-0084 15 KV Cable (26 05 13 00-0001)</b>		
<b>26 05 13 00-0085 Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0084)</b>		
<b>26 05 13 00-0086 Placed In Duct, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0085)</b>		
26 05 13 00-0087 MLF #4 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,897.56	1,626.67
26 05 13 00-0088 MLF #2 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,270.02	1,626.67
26 05 13 00-0089 MLF #1 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,412.08	1,626.67
26 05 13 00-0090 MLF #1/0 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,874.89	1,626.67
26 05 13 00-0091 MLF #2/0 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,314.16	1,626.67
26 05 13 00-0092 MLF #3/0 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	8,229.62	1,697.97
26 05 13 00-0093 MLF #4/0 AWG, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	8,402.19	1,697.97
26 05 13 00-0094 MLF 250 MCM, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	9,537.91	1,775.66
26 05 13 00-0095 MLF 350 MCM, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	10,653.84	1,817.30
26 05 13 00-0096 MLF 500 MCM, Placed In Duct, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	12,977.36	2,047.01
<b>26 05 13 00-0097 Direct Burial, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0085)</b>		
Note: Excludes excavation.		
26 05 13 00-0098 MLF #1 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	4,662.29	
26 05 13 00-0099 MLF #1/0 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,125.09	
26 05 13 00-0100 MLF #2/0 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,564.36	
26 05 13 00-0101 MLF #3/0 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,502.31	
26 05 13 00-0102 MLF #4/0 AWG, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,674.87	
26 05 13 00-0103 MLF 250 MCM, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,907.23	
26 05 13 00-0104 MLF 350 MCM, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	9,025.57	
26 05 13 00-0105 MLF 500 MCM Cable, Direct Burial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation.....	11,116.46	
<b>26 05 13 00-0106 Aerial, Cross-Linked Polyethylene (XLP) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0085)</b>		
Note: Installed on poles.		
26 05 13 00-0107 MLF #1 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	4,274.70	738.47
26 05 13 00-0108 MLF #1/0 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,031.25	850.90
26 05 13 00-0109 MLF #2/0 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	5,857.13	998.88
26 05 13 00-0110 MLF #3/0 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,969.36	1,142.32
26 05 13 00-0111 MLF #4/0 AWG, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,620.21	1,325.42
26 05 13 00-0112 MLF 250 MCM, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	9,130.05	1,542.97
26 05 13 00-0113 MLF 350 MCM, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	10,807.98	1,797.95
26 05 13 00-0114 MLF 500 MCM, Aerial, XLP, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	13,316.41	2,088.49
<b>26 05 13 00-0115 Ethylene-Propylene Rubber (EPR) Insulation, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0084)</b>		
<b>26 05 13 00-0116 Placed In Duct, Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable (26 05 13 00-0115)</b>		
26 05 13 00-0117 MLF #4 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,227.12	1,626.67
26 05 13 00-0118 MLF #2 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,666.62	1,626.67
26 05 13 00-0119 MLF #1 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	6,834.26	1,626.67
26 05 13 00-0120 MLF #1/0 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,380.37	1,626.67
26 05 13 00-0121 MLF #2/0 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	7,898.71	1,626.67
26 05 13 00-0122 MLF #3/0 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	8,946.89	1,697.97
26 05 13 00-0123 MLF #4/0 AWG, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	9,150.52	1,697.97
26 05 13 00-0124 MLF 250 MCM, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	10,455.67	1,775.66
26 05 13 00-0125 MLF 350 MCM, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	11,753.75	1,817.30
26 05 13 00-0126 MLF 500 MCM, Placed In Duct, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable.....	14,392.13	2,047.01

**26 Electrical****26 05 Common Work Results For Electrical****26 05 13 Medium-Voltage Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 13 00-0127 Direct Burial, Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable</b> (26 05 13 00-0115) Note: Excludes excavation.		
26 05 13 00-0128 MLF #1 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	5,084.46	
26 05 13 00-0129 MLF #1/0 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	5,630.57	
26 05 13 00-0130 MLF #2/0 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	6,148.91	
26 05 13 00-0131 MLF #3/0 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	7,219.58	
26 05 13 00-0132 MLF #4/0 AWG, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	7,423.20	
26 05 13 00-0133 MLF 250 MCM, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	8,822.33	
26 05 13 00-0134 MLF 350 MCM, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	10,118.19	
26 05 13 00-0135 MLF 500 MCM, Direct Burial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	12,531.23	
<b>26 05 13 00-0136 Aerial, Ethylene-Propylene Rubber (EPR), 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable</b> (26 05 13 00-0115) Note: Installed on poles.		
26 05 13 00-0137 MLF #1 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	4,696.87	738.47
26 05 13 00-0138 MLF #1/0 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	5,536.73	850.90
26 05 13 00-0139 MLF #2/0 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	6,441.68	998.88
26 05 13 00-0140 MLF #3/0 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	7,686.63	1,142.32
26 05 13 00-0141 MLF #4/0 AWG, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	8,368.54	1,325.42
26 05 13 00-0142 MLF 250 MCM, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	10,047.82	1,542.97
26 05 13 00-0143 MLF 350 MCM, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	11,907.89	1,797.95
26 05 13 00-0144 MLF 500 MCM, Aerial, EPR, 15 KV, Shielded, Single Copper Conductor, 133% Insulation Cable .....	14,731.18	2,088.49
<b>26 05 13 00-0145 15 KV Non-Shielded Single Copper Conductor</b> (26 05 13 00-0084)		
26 05 13 00-0146 MLF 1/0 15 KV Non-Shielded, Single Copper Conductor .....	7,892.22	1,632.37
26 05 13 00-0147 MLF 3/0 15 KV Non-Shielded, Single Copper Conductor .....	9,922.32	1,710.41
26 05 13 00-0148 MLF 350 MCM 15 KV Non-Shielded, Single Copper Conductor.....	13,209.83	1,824.39
<b>26 05 13 00-0149 Shielded, Armored Copper, 15 KV, 3 Conductor Cable</b> (26 05 13 00-0084) Note: Laid in cable tray or hung in vertical cable shaft.		
<b>26 05 13 00-0150 Galvanized Steel Interlocked Armor Cable</b> (26 05 13 00-0149)		
26 05 13 00-0151 LF #2 AWG TC 3 Conductor 15 KV Galvanized Armored Shielded, Laid In Cable Tray Or Hung Vertically.....	41.27	12.45
26 05 13 00-0152 LF #1/0 AWG TC 3 Conductor 15 KV Galvanized Armored Shielded, Laid In Cable Tray Or Hung Vertically.....	48.08	13.26
<b>26 05 13 00-0153 Aluminum Interlocked Armor Cable</b> (26 05 13 00-0149)		
26 05 13 00-0154 LF #2 AWG TC 3 Conductor 15 KV Aluminum Armored Shielded, Laid In Cable Tray Or Hung Vertically.....	41.27	12.45
26 05 13 00-0155 LF #1/0 AWG TC 3 Conductor 15 KV Aluminum Armored Shielded, Laid In Cable Tray Or Hung Vertically.....	48.08	13.26
<b>26 05 13 00-0156 Type URD, 15 KV Primary Concentric UD Cable</b> (26 05 13 00-0084) Note: 0.175" XLPE insulation, copper conductor.		
26 05 13 00-0157 MLF #4 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	2,928.49	816.25
26 05 13 00-0158 MLF #2 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	3,428.57	891.26
26 05 13 00-0159 MLF #1 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	4,063.28	1,006.99
26 05 13 00-0160 MLF #1/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	5,231.10	1,237.27
26 05 13 00-0161 MLF #2/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	5,948.97	1,392.89
26 05 13 00-0162 MLF #3/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	7,231.64	1,550.73
26 05 13 00-0163 MLF #4/0 AWG Cable, Type URD (XLPE), 15 KV, Placed In Conduit, Shielded, Single Conductor.....	8,122.12	1,735.89
<b>26 05 13 00-0164 15 KV URD Cable Copper Direct Burial</b> (26 05 13 00-0084)		
26 05 13 00-0165 MLF 15 KV 3/C URD Cable Copper Direct Burial #6 .....	11,892.39	
<b>26 05 13 00-0166 35 KV And 70 KV Cable</b> (26 05 13 00-0001)		
<b>26 05 13 00-0167 35 KV, Shielded, Single Copper Conductor</b> (26 05 13 00-0166)		
26 05 13 00-0168 MLF 3/0 35 KV Shielded, Single Copper Conductor .....	13,963.84	2,720.51
<b>26 05 13 00-0169 70 KV, Shielded, Single Copper Conductor</b> (26 05 13 00-0166)		
26 05 13 00-0170 MLF 350 MCM 70 KV Shielded, Single Copper Conductor.....	40,912.39	3,101.43
<b>26 05 13 00-0171 Wire Connections</b> (26 05 13 00-0001)		
<b>26 05 13 00-0172 Medium Voltage Up To 5 KV</b> (26 05 13 00-0171)		
<b>26 05 13 00-0173 Shielded One Conductor Cable Splice</b> (26 05 13 00-0172)		
26 05 13 00-0174 EA #6 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	272.69	107.76
26 05 13 00-0175 EA #2 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	323.47	107.76
26 05 13 00-0176 EA 1/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV.....	323.47	107.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 00-0177 EA 2/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	355.53	129.30
26 05 13 00-0178 EA 3/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	355.53	129.30
26 05 13 00-0179 EA 4/0 AWG Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	355.53	129.30
26 05 13 00-0180 EA 250 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	398.30	150.85
26 05 13 00-0181 EA 350 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	398.30	150.85
26 05 13 00-0182 EA 500 MCM Cable Splice, To 5 KV One Conductor, Shielded Medium Voltage To 5 KV .....	398.30	150.85
<b>26 05 13 00-0183 Cable Termination Without Stress Cone <small>(26 05 13 00-0172)</small></b>		
26 05 13 00-0184 EA #6 To 4/0 AWG Cable Termination Without Stress Cone, Medium Voltage To 5 KV .....	260.84	129.30
26 05 13 00-0185 EA 250 To 500 MCM Cable Termination Without Stress Cone, Medium Voltage To 5 KV .....	307.98	150.85
<b>26 05 13 00-0186 Cable Termination With Stress Cone <small>(26 05 13 00-0172)</small></b>		
26 05 13 00-0187 EA #6 To 4/0 AWG Cable Termination With Stress Cone, Medium Voltage To 5 KV .....	949.44	258.61
26 05 13 00-0188 EA 250 To 500 MCM Cable Termination With Stress Cone, Medium Voltage To 5 KV .....	1,312.21	355.58
<b>26 05 13 00-0189 Connect To Pothead, Pothead Included <small>(26 05 13 00-0172)</small></b>		
26 05 13 00-0190 EA #6 To 4/0 AWG Connection To Pothead (Included) Medium Voltage To 5 KV .....	980.10	258.61
26 05 13 00-0191 EA 250 To 500 MCM Connection To Pothead (Included) Medium Voltage To 5 KV .....	1,223.16	296.32
<b>26 05 13 00-0192 Two Conductor Pothead <small>(26 05 13 00-0172)</small></b>		
Note: Includes 5 KV pothead.		
26 05 13 00-0193 EA #6 To 4/0 AWG 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV .....	903.08	355.58
26 05 13 00-0194 EA 250 To 350 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV .....	1,175.04	452.56
26 05 13 00-0195 EA 400 To 700 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV .....	1,607.34	513.11
26 05 13 00-0196 EA 750 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV .....	2,359.51	598.67
26 05 13 00-0197 EA 1,000 MCM 2/c 5 KV Pothead (Included) Medium Voltage To 5 KV .....	4,120.40	897.90
<b>26 05 13 00-0198 Three Conductor Pothead <small>(26 05 13 00-0172)</small></b>		
Note: Includes 5 KV pothead.		
26 05 13 00-0199 EA #6 To 4/0 3/c 5 KV Pothead (Included) Medium Voltage To 5 KV .....	2,644.70	517.21
26 05 13 00-0200 EA 250 To 500 MCM 3/c 5 KV Pothead (Included) Medium Voltage To 5 KV .....	2,935.61	603.41
<b>26 05 13 00-0201 Copper Cable Splice, Crimp Compression Connection <small>(26 05 13 00-0172)</small></b>		
Note: For bare wire.		
26 05 13 00-0202 EA #6 AWG Crimp Compression Connection For Bare Copper Wire.....	66.06	
26 05 13 00-0203 EA #4 AWG Crimp Compression Connection For Bare Copper Wire.....	72.53	
26 05 13 00-0204 EA #3 AWG Crimp Compression Connection For Bare Copper Wire.....	84.60	
26 05 13 00-0205 EA #2 AWG Crimp Compression Connection For Bare Copper Wire.....	96.23	
26 05 13 00-0206 EA #1 AWG Crimp Compression Connection For Bare Copper Wire.....	108.46	
26 05 13 00-0207 EA 1/0 AWG Crimp Compression Connection For Bare Copper Wire.....	120.46	
26 05 13 00-0208 EA 2/0 AWG Crimp Compression Connection For Bare Copper Wire.....	132.36	
26 05 13 00-0209 EA 3/0 AWG Crimp Compression Connection For Bare Copper Wire.....	144.67	
26 05 13 00-0210 EA 4/0 AWG Crimp Compression Connection For Bare Copper Wire.....	156.73	
26 05 13 00-0211 EA 250 MCM Crimp Compression Connection For Bare Copper Wire.....	168.97	
26 05 13 00-0212 EA 300 MCM Crimp Compression Connection For Bare Copper Wire.....	181.46	
26 05 13 00-0213 EA 350 MCM Crimp Compression Connection For Bare Copper Wire.....	193.37	
26 05 13 00-0214 EA 400 MCM Crimp Compression Connection For Bare Copper Wire.....	218.18	
26 05 13 00-0215 EA 500 MCM Crimp Compression Connection For Bare Copper Wire.....	243.57	
<b>26 05 13 00-0216 Aluminum Cable Splice, Crimp Compression Connection <small>(26 05 13 00-0172)</small></b>		
Note: For bare wire.		
26 05 13 00-0217 EA #6 AWG Crimp Compression Connection For Bare Aluminum Wire .....	67.15	
26 05 13 00-0218 EA #4 AWG Crimp Compression Connection For Bare Aluminum Wire .....	73.14	
26 05 13 00-0219 EA #2 AWG Crimp Compression Connection For Bare Aluminum Wire .....	98.23	
26 05 13 00-0220 EA #1 AWG Crimp Compression Connection For Bare Aluminum Wire .....	113.53	
26 05 13 00-0221 EA 1/0 AWG Crimp Compression Connection For Bare Aluminum Wire .....	125.25	
26 05 13 00-0222 EA 2/0 AWG Crimp Compression Connection For Bare Aluminum Wire .....	136.93	
26 05 13 00-0223 EA 3/0 AWG Crimp Compression Connection For Bare Aluminum Wire .....	149.98	
26 05 13 00-0224 EA 4/0 AWG Crimp Compression Connection For Bare Aluminum Wire .....	162.34	
26 05 13 00-0225 EA 250 MCM Crimp Compression Connection For Bare Aluminum Wire .....	174.45	
26 05 13 00-0226 EA 300 MCM Crimp Compression Connection For Bare Aluminum Wire .....	186.82	
26 05 13 00-0227 EA 350 MCM Crimp Compression Connection For Bare Aluminum Wire .....	198.99	
26 05 13 00-0228 EA 400 MCM Crimp Compression Connection For Bare Aluminum Wire .....	226.24	
26 05 13 00-0229 EA 500 MCM Crimp Compression Connection For Bare Aluminum Wire .....	253.63	
<b>26 05 13 00-0230 15 KV <small>(26 05 13 00-0171)</small></b>		
<b>26 05 13 00-0231 Single Conductor Pothead On Racks <small>(26 05 13 00-0230)</small></b>		
Note: Includes pothead.		
26 05 13 00-0232 EA #2 To 4/0 AWG 1/c 15 KV Pothead (Included), On Racks.....	1,110.98	452.56
26 05 13 00-0233 EA 250 To 500 MCM 1/c 15 KV Pothead (Included), On Racks.....	1,404.79	560.31

**26 Electrical****26 05 Common Work Results For Electrical****26 05 13 Medium-Voltage Cables**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 13 00-0234			<b>Two Conductor Pothead On Rack</b> (26 05 13 00-0230) Note: Includes pothead.		
26 05 13 00-0235	EA		#2 To 4/0 AWG 2/c 15 KV Pothead (Included), On Racks.....	1,668.76	689.62
26 05 13 00-0236	EA		250 To 500 MCM 2/c 15 KV Pothead (Included), On Racks.....	1,991.13	818.92
26 05 13 00-0237			<b>Three Conductor Pothead On Rack</b> (26 05 13 00-0230) Note: Includes pothead.		
26 05 13 00-0238	EA		#2 To 4/0 AWG 3/c 15 KV Pothead (Included), On Racks.....	2,148.18	894.34
26 05 13 00-0239	EA		250 To 500 MCM 3/c 15 KV Pothead (Included), On Racks.....	2,680.27	1,120.62
26 05 13 00-0240			<b>Stress Relief Cone On Rack</b> (26 05 13 00-0230)		
26 05 13 00-0241	EA		#2 To 4/0 AWG Stress Relief Cone, On Rack.....	1,073.93	452.56
26 05 13 00-0242	EA		250 To 500 MCM Stress Relief Cone, On Rack.....	1,363.13	560.31
26 05 13 00-0243			<b>Grounded, Shielded Cable Splice</b> (26 05 13 00-0230)		
26 05 13 00-0244	EA		#2 To 4/0 AWG Cable Splice, Grounded, Shielded, 15 KV.....	767.04	334.04
26 05 13 00-0245	EA		250 To 500 MCM Cable Splice, Grounded, Shielded, 15 KV.....	986.08	431.01
26 05 13 00-0246	EA		3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE 2-Way.....	3,770.92	1,185.27
26 05 13 00-0247	EA		3/0 To 500 MCM 15 KV Splice Kit, Cable Splice, Grounded, Shielded, Universal Mechanical Type CE - CE - CE 3-Way.....	4,592.34	1,293.03
26 05 13 00-0248			<b>Cable Termination</b> (26 05 13 00-0230)		
26 05 13 00-0249	EA		#2 To 3/0 AWG Cable Termination 15 KV.....	472.76	188.56
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	113.14	
26 05 13 00-0250	EA		4/0 To 250 MCM Cable Termination 15 KV.....	601.89	242.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	145.46	
26 05 13 00-0251	EA		350 To 500 MCM Cable Termination 15 KV.....	741.55	296.32
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	177.79	
26 05 13 00-0252	EA		#2 To 3/0 AWG Cable Elbow Termination 15 KV.....	287.64	107.76
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64.65	
26 05 13 00-0253			<b>Stress Cones, 5-15 KV, 4 Skirted</b> (26 05 13 00-0230)		
26 05 13 00-0254	EA		#4 To 1/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	493.81	140.08
26 05 13 00-0255	EA		2/0 To 3/0 AWG Stress Cones, 5-15 KV, 4 Skirted.....	557.01	154.82
26 05 13 00-0256	EA		4/0 To 350 MCM Stress Cones, 5-15 KV, 4 Skirted.....	645.73	169.43
26 05 13 00-0257	EA		400 To 500 MCM Stress Cones, 5-15 KV, 4 Skirted.....	805.71	195.21
26 05 13 00-0258			<b>Stress Cones, 5-15 KV, 6 Skirted</b> (26 05 13 00-0230)		
26 05 13 00-0259	EA		#4 To 1/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	987.64	280.63
26 05 13 00-0260	EA		2/0 To 3/0 AWG Stress Cones, 5-15 KV, 6 Skirted.....	1,114.11	309.63
26 05 13 00-0261	EA		4/0 To 350 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,278.89	332.56
26 05 13 00-0262	EA		400 To 500 MCM Stress Cones, 5-15 KV, 6 Skirted.....	1,611.43	390.41
26 05 13 00-0263			<b>35 KV</b> (26 05 13 00-0171)		
26 05 13 00-0264			<b>35 KV One Conductor Splice</b> (26 05 13 00-0263)		
26 05 13 00-0265	EA		Cable Splicing, #1 Stranded To 4/0 Stranded, 35 KV.....	1,907.50	
26 05 13 00-0266			<b>Cable Termination</b> (26 05 13 00-0263)		
26 05 13 00-0267	EA		#2 To 3/0 AWG Cable Termination 35 KV.....	374.18	129.41
26 05 13 00-0268	EA		3/0 AWG To 250 MCM Cable Termination 35 KV.....	531.60	195.25
26 05 13 00-0269	EA		350 To 500 MCM Cable Termination 35 KV.....	597.35	208.82
26 05 13 00-0270	EA		#2 To 3/0 AWG Cable Elbow Termination 35 KV.....	302.56	107.76
26 05 13 00-0271			<b>70 KV</b> (26 05 13 00-0171)		
26 05 13 00-0272			<b>Cable Splice</b> (26 05 13 00-0271)		
26 05 13 00-0273	EA		Cable Splicing, 350 MCM 70 KV.....	6,526.65	
26 05 13 00-0274	EA		Cable Splicing, #2 To 4/0 70 KV.....	1,944.98	
26 05 19			<b>Low-Voltage Electrical Power Conductors And Cables</b> (26 05)		
26 05 19 13			<b>Undercarpet Electrical Power Cables</b> (26 05 19)		
26 05 19 13-0001			<b>Under Carpet Power System</b> (26 05 19 13) Note: Includes laying out, floor prep, taping, testing, drill floor, folds.		
26 05 19 13-0002	LF		Cable Flat 3 Conductor #12 With Attached Bottom Shield.....	7.80	0.49
26 05 19 13-0003	LF		Top Shield, Steel.....	7.37	0.49
26 05 19 13-0004	EA		Splice, 3-Conductor.....	38.76	8.38
26 05 19 13-0005	EA		Splice Top Shield For 3 Conductor.....	9.69	3.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 13-0006 EA Tap 3-Conductor.....	48.92	9.85
26 05 19 13-0007 EA Insulating Patch, Splice Tap And End.....	83.18	8.38
26 05 19 13-0008 EA Transition Block Assembly 3-conductor.....	54.80	4.93
26 05 19 13-0009 EA Receptacles, Direct Connected Single, With Box.....	164.40	15.76
26 05 19 13-0010 EA Receptacles, Direct Connected Dual, With Box.....	275.61	24.63
26 05 19 13-0011 EA Box, Floor Mounted With Cover.....	279.43	19.70
26 05 19 13-0012 LF 5-Conductor #12 With Attached Bottom Shield.....	12.71	0.49
26 05 19 13-0013 LF Shield, Top, Steel For 5 Conductor.....	12.61	0.49
26 05 19 13-0014 EA Splice, 5 Conductor.....	39.39	8.38
26 05 19 13-0015 EA Transition Block Assembly 5 Conductor.....	74.08	4.93
26 05 19 13-0016 EA Box, Wall, Flush With Cover.....	114.71	19.70
26 05 19 13-0017 EA Telephone Transition Fitting Wall Box.....	72.36	16.25
26 05 19 13-0018 EA Telephone Fitting With Duplex Jack And Cover RJ-45.....	97.88	18.72
26 05 19 13-0019 EA Telephone Miniature With Duplex RJ-45.....	42.79	7.38
26 05 19 13-0020 LF Telephone 4-Pair Level 5 Under Carpet Wire.....	2.41	0.49
26 05 19 13-0021 EA BNC Coax Connector Plug.....	30.22	9.85
26 05 19 13-0022 EA TNC Connector Coax Plug.....	30.22	9.85
26 05 19 13-0023 CLF Flat RG A/U 59, 75 Ohm, RG A/U 62, 93 Ohm, RG A/U 58, 50 Ohm.....	161.42	49.26

**26 05 19 16 Low-Voltage, Single-And Multi-Conductor Cables (26 05 19)**

26 05 19 16-0001 Cable Installation Methods (26 05 19 16)

26 05 19 16-0002 Pull Cord (26 05 19 16-0001)

Note: Left in conduit for others to pull cable. Not to be used when contractor has priced new wire in a conduit. Priced when owner wants a pull cord left in a conduit for owner to pull wire at a later time.

26 05 19 16-0003 LF Pull String Installed To Remain In Place, In Existing Conduit.....	0.33
26 05 19 16-0004 LF Pull String Installed To Remain In Place, In New Conduits.....	0.17
26 05 19 16-0005 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In Existing Conduit.....	0.75
26 05 19 16-0006 LF 1/4" Nylon Pull Cord Installed To Remain In Place, In New Conduits.....	0.42

26 05 19 16-0007 Bore Conduit Into Dirt Or Sand (26 05 19 16-0001)

Note: For installation under roads, driveways or other structures up to 20'.

26 05 19 16-0008 LF Bore 1" To 4" Conduit Into Dirt Or Sand.....	2.47
26 05 19 16-0009 LF Bore 5" To 8" Conduit Into Dirt Or Sand.....	3.14
26 05 19 16-0010 EA Boring Minimum Set-Up Charge.....	344.99

Note: For projects where the total boring charge is less than the minimum set-up charge. Use this item exclusively. This item should not be used in conjunction with any other items in this section.

26 05 19 16-0011 Wire and Cable (26 05 19 16)

Note: Pulled in conduit except as noted. Includes pull wires, pulling branch circuit conductors, testing, and splicing (#8 and lighter). All conductors are copper except as otherwise noted. No special set-up is required. Excludes terminations.

26 05 19 16-0012 Multi-Conductor Cords, Cables And Associated Equipment (26 05 19 16-0011)

26 05 19 16-0013 Multi-Conductor Cords (26 05 19 16-0012)

Note: Includes installation in cable tray, surface mounting or installation between junction boxes. Excludes strain relief devices, plugs and connector bodies.

26 05 19 16-0014 Multi-Conductor Type SOOW And SJOOW Cord (26 05 19 16-0013)

Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.

26 05 19 16-0015 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0014)

26 05 19 16-0016 #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)

26 05 19 16-0017 LF 2/c #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.11	0.43
26 05 19 16-0018 LF 3/c #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.16	0.43
26 05 19 16-0019 LF 4/c #18, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.30	0.43

26 05 19 16-0020 #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)

26 05 19 16-0021 LF 2/c #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.29	0.43
26 05 19 16-0022 LF 3/c #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.38	0.43
26 05 19 16-0023 LF 4/c #16, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.50	0.43

26 05 19 16-0024 #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)

26 05 19 16-0025 LF 2/c #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.46	0.43
26 05 19 16-0026 LF 3/c #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.60	0.43
26 05 19 16-0027 LF 4/c #14, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.87	0.43

26 05 19 16-0028 #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (26 05 19 16-0015)

26 05 19 16-0029 LF 2/c #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.69	0.43
26 05 19 16-0030 LF 3/c #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	1.86	0.43
26 05 19 16-0031 LF 4/c #12, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene).....	2.10	0.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 05 19 16-0032	<b>#10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord</b> <small>(26 05 19 16-0015)</small>		
26 05 19 16-0033	LF 2/c #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	2.21	0.54
26 05 19 16-0034	LF 3/c #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	2.33	
26 05 19 16-0035	LF 4/c #10, 300 Volt, 90 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Carolprene)	2.50	0.54

26 05 19 16-0036	<b>600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0014)</small>		
26 05 19 16-0037	<b>#18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>		
26 05 19 16-0038	LF 2/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.16	0.43
26 05 19 16-0039	LF 3/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.26	0.43
26 05 19 16-0040	LF 4/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.39	0.43
26 05 19 16-0041	LF 5/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.45	0.58
26 05 19 16-0042	LF 6/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.68	0.60
26 05 19 16-0043	LF 7/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.84	0.61
26 05 19 16-0044	LF 8/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.13	0.63
26 05 19 16-0045	LF 10/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.61	0.66
26 05 19 16-0046	LF 12/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.12	0.68
26 05 19 16-0047	LF 14/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.47	0.69
26 05 19 16-0048	LF 16/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.56	0.71
26 05 19 16-0049	LF 18/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.72	0.73
26 05 19 16-0050	LF 20/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.38	0.74
26 05 19 16-0051	LF 24/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.06	0.76
26 05 19 16-0052	LF 30/c #18, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.40	0.81

26 05 19 16-0053	<b>#16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>		
26 05 19 16-0054	LF 2/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.37	0.43
26 05 19 16-0055	LF 3/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.46	0.43
26 05 19 16-0056	LF 4/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.64	0.43
26 05 19 16-0057	LF 5/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.56	0.58
26 05 19 16-0058	LF 6/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	2.83	0.60
26 05 19 16-0059	LF 7/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.09	0.61
26 05 19 16-0060	LF 8/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.43	0.63
26 05 19 16-0061	LF 9/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.58	0.65
26 05 19 16-0062	LF 10/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.97	0.66
26 05 19 16-0063	LF 12/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.66	0.68
26 05 19 16-0064	LF 14/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.01	0.69
26 05 19 16-0065	LF 16/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.66	0.71
26 05 19 16-0066	LF 18/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.55	0.73
26 05 19 16-0067	LF 20/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.37	0.74
26 05 19 16-0068	LF 24/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.92	0.76
26 05 19 16-0069	LF 26/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.81	0.77
26 05 19 16-0070	LF 30/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.44	0.81

26 05 19 16-0071	<b>#14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>		
26 05 19 16-0072	LF 2/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.62	0.43
26 05 19 16-0073	LF 3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.72	0.43
26 05 19 16-0074	LF 4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.97	0.43
26 05 19 16-0075	LF 5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.35	0.58
26 05 19 16-0076	LF 6/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.03	0.60
26 05 19 16-0077	LF 7/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.25	0.61
26 05 19 16-0078	LF 8/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.80	0.63
26 05 19 16-0079	LF 9/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.16	0.65
26 05 19 16-0080	LF 10/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.77	0.66
26 05 19 16-0081	LF 12/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.36	0.68
26 05 19 16-0082	LF 14/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.03	0.69
26 05 19 16-0083	LF 16/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.46	0.71
26 05 19 16-0084	LF 20/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.51	0.74
26 05 19 16-0085	LF 24/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	11.22	0.76
26 05 19 16-0086	LF 30/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	13.29	0.81

26 05 19 16-0087	<b>#12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> <small>(26 05 19 16-0036)</small>		
26 05 19 16-0088	LF 2/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	1.87	0.43
26 05 19 16-0089	LF 3/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.07	0.43
26 05 19 16-0090	LF 4/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene)	2.25	0.43
26 05 19 16-0091	LF 5/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	3.85	0.58
26 05 19 16-0092	LF 6/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	4.47	0.60
26 05 19 16-0093	LF 7/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.10	0.61
26 05 19 16-0094	LF 8/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	5.80	0.63
26 05 19 16-0095	LF 9/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	6.30	0.65
26 05 19 16-0096	LF 10/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	7.13	0.66
26 05 19 16-0097	LF 12/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	8.13	0.68
26 05 19 16-0098	LF 14/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.07	0.69
26 05 19 16-0099	LF 16/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	9.99	0.71
26 05 19 16-0100	LF 18/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron)	10.44	0.73



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0101 LF 20/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.05	0.74
26 05 19 16-0102 LF 24/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	13.69	0.76
26 05 19 16-0103 LF 26/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	15.35	0.77
26 05 19 16-0104 LF 28/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	15.88	0.79
26 05 19 16-0105 LF 30/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	16.45	0.81
<b>26 05 19 16-0106 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> (26 05 19 16-0036)		
26 05 19 16-0107 LF 2/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.16	0.54
26 05 19 16-0108 LF 3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.32	0.54
26 05 19 16-0109 LF 4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	2.49	0.54
26 05 19 16-0110 LF 5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	3.32	0.58
26 05 19 16-0111 LF 6/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	5.49	0.60
26 05 19 16-0112 LF 7/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	6.46	0.61
26 05 19 16-0113 LF 10/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	8.34	0.66
26 05 19 16-0114 LF 12/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	9.57	0.68
26 05 19 16-0115 LF 16/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	12.23	0.71
26 05 19 16-0116 LF 20/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron).....	17.85	0.74
<b>26 05 19 16-0117 #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> (26 05 19 16-0036)		
26 05 19 16-0118 LF 3/c #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.37	0.65
26 05 19 16-0119 LF 4/c #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	4.75	0.75
26 05 19 16-0120 LF 5/c #8, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.52	0.75
<b>26 05 19 16-0121 #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> (26 05 19 16-0036)		
26 05 19 16-0122 LF 3/c #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	6.31	0.75
26 05 19 16-0123 LF 4/c #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	7.61	0.86
26 05 19 16-0124 LF 5/c #6, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	9.13	1.08
<b>26 05 19 16-0125 #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> (26 05 19 16-0036)		
26 05 19 16-0126 LF 3/c #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	10.08	1.08
26 05 19 16-0127 LF 4/c #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	11.06	1.18
26 05 19 16-0128 LF 5/c #4, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	13.37	1.29
<b>26 05 19 16-0129 #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord</b> (26 05 19 16-0036)		
26 05 19 16-0130 LF 3/c #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	15.06	2.15
26 05 19 16-0131 LF 4/c #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	19.18	2.69
26 05 19 16-0132 LF 5/c #2, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Carolprene).....	23.16	3.56
<b>26 05 19 16-0133 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord</b> (26 05 19 16-0014)		
<b>26 05 19 16-0134 #18, 300 Volt, Multi-Conductor Type SJOOW Cord</b> (26 05 19 16-0133)		
26 05 19 16-0135 LF 2/c #18, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	1.51	0.43
26 05 19 16-0136 LF 3/c #18, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	1.67	0.43
26 05 19 16-0137 LF 4/c #18, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	1.97	0.43
<b>26 05 19 16-0138 #16, 300 Volt, Multi-Conductor Type SJOOW Cord</b> (26 05 19 16-0133)		
26 05 19 16-0139 LF 2/c #16, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	1.61	0.43
26 05 19 16-0140 LF 3/c #16, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	1.86	0.43
26 05 19 16-0141 LF 4/c #16, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	1.97	0.43
<b>26 05 19 16-0142 #14, 300 Volt, Multi-Conductor Type SJOOW Cord</b> (26 05 19 16-0133)		
26 05 19 16-0143 LF 2/c #14, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	2.24	0.43
26 05 19 16-0144 LF 3/c #14, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	3.26	0.43
26 05 19 16-0145 LF 4/c #14, 300 Volt, 105 Degree Celsius, Multi-Conductor Type SJOOW Cord (Carol Super Vu-Tron III) .....	4.19	0.54
<b>26 05 19 16-0146 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> (26 05 19 16-0014)		
<b>26 05 19 16-0147 #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> (26 05 19 16-0146)		
26 05 19 16-0148 LF 2/c #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.16	0.43
26 05 19 16-0149 LF 3/c #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.59	0.43
26 05 19 16-0150 LF 4/c #18, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.04	0.43
<b>26 05 19 16-0151 #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> (26 05 19 16-0146)		
26 05 19 16-0152 LF 2/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.31	0.43
26 05 19 16-0153 LF 3/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.75	0.43
26 05 19 16-0154 LF 4/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.45	0.43

**26 Electrical**  
**26 05 Common Work Results For Electrical**  
 26 05 19 Low-Voltage Electrical Power Conductors And Cables



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0155 LF 5/c #16, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.73	0.54
<b>26 05 19 16-0156 #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> (26 05 19 16-0146)		
26 05 19 16-0157 LF 3/c #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	2.86	0.43
26 05 19 16-0158 LF 4/c #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.42	0.43
26 05 19 16-0159 LF 5/c #14, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.83	0.54
<b>26 05 19 16-0160 #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> (26 05 19 16-0146)		
26 05 19 16-0161 LF 3/c #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.39	0.43
26 05 19 16-0162 LF 4/c #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.89	0.43
26 05 19 16-0163 LF 5/c #12, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.34	0.54
<b>26 05 19 16-0164 #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord</b> (26 05 19 16-0146)		
26 05 19 16-0165 LF 3/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	3.89	0.54
26 05 19 16-0166 LF 4/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.34	0.54
26 05 19 16-0167 LF 5/c #10, 600 Volt, 105 Degree Celsius, Multi-Conductor Type SOOW Cord (Carol Super Vu-Tron III).....	4.77	0.54
<b>26 05 19 16-0168 Multi-Conductor Type SEOW Cord</b> (26 05 19 16-0013) Note: Includes thermoplastic elastomeric (TPE) insulation.		
<b>26 05 19 16-0169 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> (26 05 19 16-0168)		
<b>26 05 19 16-0170 #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> (26 05 19 16-0169)		
26 05 19 16-0171 LF 3/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.63	0.43
26 05 19 16-0172 LF 4/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	1.80	0.43
26 05 19 16-0173 LF 5/c #16, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.74	0.54
<b>26 05 19 16-0174 #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> (26 05 19 16-0169)		
26 05 19 16-0175 LF 3/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.15	0.43
26 05 19 16-0176 LF 4/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.48	0.43
26 05 19 16-0177 LF 5/c #14, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.57	0.54
<b>26 05 19 16-0178 #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> (26 05 19 16-0169)		
26 05 19 16-0179 LF 3/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	2.69	0.43
26 05 19 16-0180 LF 4/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.11	0.43
26 05 19 16-0181 LF 5/c #12, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.92	0.54
<b>26 05 19 16-0182 #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord</b> (26 05 19 16-0169)		
26 05 19 16-0183 LF 3/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.41	0.54
26 05 19 16-0184 LF 4/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	3.92	0.54
26 05 19 16-0185 LF 5/c #10, 600 Volt, 90 Degree Celsius, Multi-Conductor Type SEOW Cord.....	4.20	0.54
<b>26 05 19 16-0186 Multi-Conductor Type W Cord</b> (26 05 19 16-0013) Note: Includes ethylene propylene diene monomer (EPDM) rubber insulation.		
<b>26 05 19 16-0187 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> (26 05 19 16-0186)		
<b>26 05 19 16-0188 #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> (26 05 19 16-0187)		
26 05 19 16-0189 LF 3/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	4.80	0.65
26 05 19 16-0190 LF 4/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.15	0.75
26 05 19 16-0191 LF 5/c #8, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.12	0.75
<b>26 05 19 16-0192 #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> (26 05 19 16-0187)		
26 05 19 16-0193 LF 3/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	5.15	0.75
26 05 19 16-0194 LF 4/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	6.14	0.86
26 05 19 16-0195 LF 5/c #6, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.64	1.08
<b>26 05 19 16-0196 #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord</b> (26 05 19 16-0187)		
26 05 19 16-0197 LF 3/c #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	7.04	0.75
26 05 19 16-0198 LF 4/c #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	8.31	0.86
26 05 19 16-0199 LF 5/c #4, 2,000 Volt, 90 Degree Celsius, Multi-Conductor Type W Cord (Carol Super Vu-Tron).....	10.69	1.08
<b>26 05 19 16-0200 Cord Grips, Cable Reels, Extension Cords, And Accessories</b> (26 05 19 16-0012)		
<b>26 05 19 16-0201 Cord Grips</b> (26 05 19 16-0200)		
26 05 19 16-0202 EA Cord Grip With Watertight Connector For 1/2" NPT Zinc Plated Steel..... For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	67.25 19.59	





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0203	EA			Cord Grip With Watertight Connector For 3/4" NPT Zinc Plated Steel..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.47 19.59	
<b>26 05 19 16-0204</b>				<b>Cable Reels</b> <small>(26 05 19 16-0200)</small> Note: Includes handling, mounting, electrical connections and installing cord.		
26 05 19 16-0205	EA			30', 16-3, SJO, Extension Cord Reel (Cox Reels PC10-3016-A).....	562.74	53.87
26 05 19 16-0206	EA			50', 10-4, SEOW, Extension Cord Reel (Reelcraft L 7050 104 X 1).....	1,540.30	53.87
26 05 19 16-0207	EA			50', 16-3, SOOW, Extension Cord Reel (KH Industries RTFD3L-WW-B16K).....	1,153.88	53.87
<b>26 05 19 16-0208</b>				<b>Extension Cords</b> <small>(26 05 19 16-0200)</small>		
26 05 19 16-0209	EA			Extension Cord, 120 Volt 12/3, 100 Ft.....	92.10	
26 05 19 16-0210	EA			Extension Cord, 240 Volt 10/3, 100 Ft.....	138.52	
<b>26 05 19 16-0211</b>				<b>Plugs And Connector Bodies</b> <small>(26 05 19 16-0200)</small> Note: Up to 277 volts.		
<b>26 05 19 16-0212</b>				<b>NEMA Twist-Lock Plugs</b> <small>(26 05 19 16-0211)</small>		
26 05 19 16-0213	EA			15 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7545C) .....	72.22	
26 05 19 16-0214	EA			15 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL4770CBK).....	73.64	
26 05 19 16-0215	EA			20 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Plug (Hubbell HBL7102C) .....	67.69	
26 05 19 16-0216	EA			20 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2331) .....	72.05	
26 05 19 16-0217	EA			20 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2411) .....	92.46	
26 05 19 16-0218	EA			20 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2441) .....	97.99	
26 05 19 16-0219	EA			20 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2511BK) .....	103.40	
26 05 19 16-0220	EA			30 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Plug (Hubbell HBL2611BK) .....	93.28	
26 05 19 16-0221	EA			30 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2711BK) .....	106.58	
26 05 19 16-0222	EA			30 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Plug (Hubbell HBL2761) .....	109.17	
26 05 19 16-0223	EA			30 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Plug (Hubbell HBL2811BK) .....	112.46	
<b>26 05 19 16-0224</b>				<b>NEMA Twist-Lock Connector Bodies</b> <small>(26 05 19 16-0211)</small>		
26 05 19 16-0225	EA			15 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7506C) .....	76.22	
26 05 19 16-0226	EA			15 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL4779C).....	81.22	
26 05 19 16-0227	EA			20 Amp, 2 Pole 2 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL7101C) .....	70.69	
26 05 19 16-0228	EA			20 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2323BK).....	93.28	
26 05 19 16-0229	EA			20 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2413BK) .....	107.87	
26 05 19 16-0230	EA			20 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2443).....	114.93	
26 05 19 16-0231	EA			20 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2513BK).....	138.70	
26 05 19 16-0232	EA			30 Amp, 2 Pole 3 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2623BK).....	132.70	
26 05 19 16-0233	EA			30 Amp, 3 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2713BK) .....	162.46	
26 05 19 16-0234	EA			30 Amp, 4 Pole 4 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2753).....	170.34	
26 05 19 16-0235	EA			30 Amp, 4 Pole 5 Wire, NEMA Twist-Lock Connector Body (Hubbell HBL2813BK).....	161.76	
<b>26 05 19 16-0236</b>				<b>Watertight Pin And Sleeve Plug</b> <small>(26 05 19 16-0211)</small>		
26 05 19 16-0237	EA			20 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P4W).....	177.14	32.33
26 05 19 16-0238	EA			20 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P6W).....	178.77	32.33
26 05 19 16-0239	EA			20 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 320P7W).....	191.44	32.33
26 05 19 16-0240	EA			20 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P12W).....	194.08	35.56
26 05 19 16-0241	EA			20 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P9W).....	191.62	35.56
26 05 19 16-0242	EA			20 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 420P7W).....	192.35	35.56
26 05 19 16-0243	EA			30 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P4W).....	263.20	39.76
26 05 19 16-0244	EA			30 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P6W).....	257.08	39.76
26 05 19 16-0245	EA			30 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 330P7W).....	283.36	39.76
26 05 19 16-0246	EA			30 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P12W).....	281.76	43.64
26 05 19 16-0247	EA			30 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P9W).....	271.14	43.64
26 05 19 16-0248	EA			30 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 430P7W).....	278.45	43.64
26 05 19 16-0249	EA			60 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P4W).....	355.92	51.72
26 05 19 16-0250	EA			60 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P6W).....	361.75	51.72
26 05 19 16-0251	EA			60 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 360P7W).....	347.93	51.72
26 05 19 16-0252	EA			60 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P12W).....	395.24	57.54
26 05 19 16-0253	EA			60 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P9W).....	386.17	57.54
26 05 19 16-0254	EA			60 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 460P7W).....	390.09	57.54
26 05 19 16-0255	EA			100 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P6W).....	483.80	64.65
26 05 19 16-0256	EA			100 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 3100P7W).....	506.31	64.65
26 05 19 16-0257	EA			100 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P12W).....	499.56	71.11
26 05 19 16-0258	EA			100 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P9W).....	491.88	71.11
26 05 19 16-0259	EA			100 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Plug (Hubbell 4100P7W).....	496.03	71.11
<b>26 05 19 16-0260</b>				<b>Watertight Pin And Sleeve Connector</b> <small>(26 05 19 16-0211)</small>		
26 05 19 16-0261	EA			20 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C4W) .....	186.52	32.33
26 05 19 16-0262	EA			20 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C6W) .....	187.65	32.33
26 05 19 16-0263	EA			20 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 320C7W) .....	216.82	32.33
26 05 19 16-0264	EA			20 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C12W) .....	217.72	35.56
26 05 19 16-0265	EA			20 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C9W) .....	214.76	35.56
26 05 19 16-0266	EA			20 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 420C7W) .....	217.43	35.56
26 05 19 16-0267	EA			30 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C4W) .....	268.80	39.76

**26 Electrical**  
**26 05 Common Work Results For Electrical**  
**26 05 19 Low-Voltage Electrical Power Conductors And Cables**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0268	EA		30 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C6W) .....	268.74	39.76
26 05 19 16-0269	EA		30 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 330C7W) .....	278.80	39.76
26 05 19 16-0270	EA		30 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C12W).....	279.03	43.64
26 05 19 16-0271	EA		30 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C9W) .....	281.10	43.64
26 05 19 16-0272	EA		30 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 430C7W) .....	278.92	43.64
26 05 19 16-0273	EA		60 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C4W) .....	413.42	51.72
26 05 19 16-0274	EA		60 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C6W) .....	401.10	51.72
26 05 19 16-0275	EA		60 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 360C7W) .....	393.76	51.72
26 05 19 16-0276	EA		60 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C12W).....	429.47	57.54
26 05 19 16-0277	EA		60 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C9W) .....	440.18	57.54
26 05 19 16-0278	EA		60 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 460C7W) .....	440.96	57.54
26 05 19 16-0279	EA		100 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C6W) .....	546.87	64.65
26 05 19 16-0280	EA		100 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 3100C7W) .....	561.01	64.65
26 05 19 16-0281	EA		100 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C12W) .....	607.14	71.11
26 05 19 16-0282	EA		100 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C9W) .....	587.72	71.11
26 05 19 16-0283	EA		100 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Connector (Hubbell 4100C7W) .....	594.34	71.11

**26 05 19 16-0284 Accessories** (26 05 19 16-0200)

26 05 19 16-0285	EA		1/2" Straight Steel Cord Connector .....	41.86	10.78
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.47	
26 05 19 16-0286	EA		1/2" Straight Nylon Cord Connector .....	26.32	8.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.85	
26 05 19 16-0287	EA		1/2" 90 Degree Steel Cord Connector.....	48.77	13.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.08	
26 05 19 16-0288	EA		1/2" 90 Degree Nylon Cord Connector.....	32.47	10.78
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.47	
26 05 19 16-0289	EA		1/2" Straight Steel Cord Connector With Strain Relief Mesh.....	48.27	13.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.08	
26 05 19 16-0290	EA		1/2" 90 Degree Steel Cord Connector With Strain Relief Mesh .....	78.17	16.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.70	
26 05 19 16-0291	EA		1/2" Straight Nylon Cord Connector With Strain Relief Mesh.....	32.08	10.78
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.47	
26 05 19 16-0292	EA		1/2" 90 Degree Nylon Cord Connector With Strain Relief Mesh .....	50.62	13.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.08	
26 05 19 16-0293	EA		3/4" Straight Steel Cord Connector .....	43.29	10.78
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.47	
26 05 19 16-0294	EA		3/4" Straight Nylon Cord Connector .....	27.04	8.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.85	
26 05 19 16-0295	EA		3/4" 90 Degree Steel Cord Connector.....	53.24	13.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.08	
26 05 19 16-0296	EA		3/4" 90 Degree Nylon Cord Connector.....	34.71	10.78
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.47	
26 05 19 16-0297	EA		3/4" Straight Steel Cord Connector With Strain Relief Mesh.....	55.16	16.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.70	
26 05 19 16-0298	EA		3/4" 90 Degree Steel Cord Connector With Strain Relief Mesh .....	65.32	18.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.31	
26 05 19 16-0299	EA		3/4" Straight Nylon Cord Connector With Strain Relief Mesh.....	38.97	13.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.08	
26 05 19 16-0300	EA		3/4" 90 Degree Nylon Cord Connector With Strain Relief Mesh .....	46.99	16.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.70	
26 05 19 16-0301	EA		1" Straight Steel Cord Connector .....	52.46	10.78
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.47	
26 05 19 16-0302	EA		1" Straight Nylon Cord Connector .....	31.63	8.08
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4.85	
26 05 19 16-0303	EA		1" 90 Degree Steel Cord Connector .....	59.30	13.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.08	
26 05 19 16-0304	EA		1" 90 Degree Nylon Cord Connector .....	37.74	10.78
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6.47	
26 05 19 16-0305	EA		1" Straight Steel Cord Connector With Strain Relief Mesh.....	64.79	16.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.70	
26 05 19 16-0306	EA		1" 90 Degree Steel Cord Connector With Strain Relief Mesh .....	71.68	18.85
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11.31	
26 05 19 16-0307	EA		1" Straight Nylon Cord Connector With Strain Relief Mesh.....	43.86	13.47
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.08	
26 05 19 16-0308	EA		1" 90 Degree Nylon Cord Connector With Strain Relief Mesh.....	51.12	16.17
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9.70	

**26 05 19 16-0309 600 Volt Wire** (26 05 19 16-0011)

**26 05 19 16-0310 Single Solid Conductor, Copper** (26 05 19 16-0309)

26 05 19 16-0311	MLF		#14 AWG Cable - Type THHN-THWN, 600 Volt Copper, Single Solid, Placed In Conduit .....	564.19	239.07
26 05 19 16-0312	MLF		#12 AWG Cable - Type THHN-THWN, 600 Volt Copper, Single Solid, Placed In Conduit .....	698.67	281.24
26 05 19 16-0313	MLF		#10 AWG Cable - Type THHN-THWN, 600 Volt Copper, Single Solid, Placed In Conduit .....	852.06	343.89
26 05 19 16-0314	MLF		#14 AWG Cable - Type XHHW, 600 Volt Copper, Single Solid, Placed In Conduit .....	736.89	239.07
26 05 19 16-0315	MLF		#12 AWG Cable - Type XHHW, 600 Volt Copper, Single Solid, Placed In Conduit .....	886.92	281.24
26 05 19 16-0316	MLF		#10 AWG Cable - Type XHHW, 600 Volt Copper, Single Solid, Placed In Conduit .....	1,058.15	343.89

**26 05 19 16-0317 Power Cable, Stranded Conductor, Copper** (26 05 19 16-0309)

**26 05 19 16-0318 Power Cable, Stranded, Single Conductor, XHHW-2** (26 05 19 16-0317)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0319 MLF #16 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	590.65	197.02
26 05 19 16-0320 MLF #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	699.54	236.42
26 05 19 16-0321 MLF #12 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	852.20	275.83
26 05 19 16-0322 MLF #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,034.44	315.22
26 05 19 16-0323 MLF #8 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,363.49	394.03
26 05 19 16-0324 MLF #6 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,807.75	472.83
26 05 19 16-0325 MLF #4 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,442.42	591.05
26 05 19 16-0326 MLF #3 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,872.82	669.85
26 05 19 16-0327 MLF #2 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,376.01	748.66
26 05 19 16-0328 MLF #1 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	4,127.21	827.47
26 05 19 16-0329 MLF 1/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	4,924.62	945.67
26 05 19 16-0330 MLF 2/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	5,859.58	1,063.88
26 05 19 16-0331 MLF 3/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	6,961.12	1,182.09
26 05 19 16-0332 MLF 4/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	8,274.90	1,300.30
26 05 19 16-0333 MLF 250 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	8,792.74	1,418.50
26 05 19 16-0334 MLF 300 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	10,342.34	1,536.72
26 05 19 16-0335 MLF 350 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	11,041.91	1,654.92
26 05 19 16-0336 MLF 400 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	12,306.19	1,773.13
26 05 19 16-0337 MLF 500 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	14,156.83	1,891.34
26 05 19 16-0338 MLF 600 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	16,229.32	2,048.95
26 05 19 16-0339 MLF 750 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	24,192.70	2,285.38
26 05 19 16-0340 MLF 1,000 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Single Stranded, Placed In Conduit.....	33,810.86	2,679.41

**26 05 19 16-0341 Power Cable, Stranded, Multi Conductor, XHHW-2** (26 05 19 16-0317)

26 05 19 16-0342 MLF 2/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,399.06	472.73
26 05 19 16-0343 MLF 3/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,704.57	551.74
26 05 19 16-0344 MLF 4/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,108.68	669.85
26 05 19 16-0345 MLF 6/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,472.53	728.66
26 05 19 16-0346 MLF 7/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,680.10	768.26
26 05 19 16-0347 MLF 9/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,093.74	846.96
26 05 19 16-0348 MLF 10/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,315.43	882.82
26 05 19 16-0349 MLF 12/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,715.32	965.37
26 05 19 16-0350 MLF 14/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	4,080.45	1,024.68
26 05 19 16-0351 MLF 24/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	5,854.71	1,300.40
26 05 19 16-0352 MLF 37/c #14 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	8,840.98	1,930.75
26 05 19 16-0353 MLF 2/c #12 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	1,704.64	551.74
26 05 19 16-0354 MLF 3/c #12 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,162.68	669.85
26 05 19 16-0355 MLF 4/c #12 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,620.75	788.06
26 05 19 16-0356 MLF 2/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,265.12	708.96
26 05 19 16-0357 MLF 3/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,904.43	866.08
26 05 19 16-0358 MLF 4/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,744.19	1,103.48
26 05 19 16-0359 MLF 6/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	5,025.74	1,418.99
26 05 19 16-0360 MLF 9/c #10 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	6,748.93	1,812.63
26 05 19 16-0361 MLF 2/c #8 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	2,776.23	807.76
26 05 19 16-0362 MLF 3/c #8 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,499.42	945.67
26 05 19 16-0363 MLF 4/c #8 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	4,518.14	1,201.80
26 05 19 16-0364 MLF 2/c #6 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	3,517.09	906.27
26 05 19 16-0365 MLF 3/c #6 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	4,684.43	1,122.99
26 05 19 16-0366 MLF 4/c #6 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	5,965.16	1,385.02
26 05 19 16-0367 MLF 2/c #4 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	4,678.39	1,099.54
26 05 19 16-0368 MLF 3/c #4 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	6,038.57	1,257.65
26 05 19 16-0369 MLF 4/c #4 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	7,782.69	1,569.42
26 05 19 16-0370 MLF 2/c #2 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	6,356.99	1,339.31
26 05 19 16-0371 MLF 3/c #2 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	8,257.36	1,497.71
26 05 19 16-0372 MLF 4/c #2 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	10,942.86	1,970.14
26 05 19 16-0373 MLF 3/c #1 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	10,903.21	1,891.05
26 05 19 16-0374 MLF 4/c #1 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	14,142.14	2,363.19
26 05 19 16-0375 MLF 3/c #1/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	12,804.62	2,049.35
26 05 19 16-0376 MLF 3/c #2/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	15,507.55	2,363.19
26 05 19 16-0377 MLF 3/c #3/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	18,910.22	2,757.03
26 05 19 16-0378 MLF 4/c #3/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	24,885.42	3,544.79
26 05 19 16-0379 MLF 3/c #4/0 AWG Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	22,959.81	3,154.90
26 05 19 16-0380 MLF 3/c 250 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	24,601.25	3,544.79
26 05 19 16-0381 MLF 3/c 350 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	30,564.48	3,940.30
26 05 19 16-0382 MLF 3/c 500 MCM Cable - XLP (XHHW-2), 600 Volt Copper, Stranded, Placed In Conduit.....	39,111.87	4,330.58

**26 05 19 16-0383 Underground Feeder And Branch Circuit Suitable, Single Stranded Copper**

(26 05 19 16-0309)  
 Note: Direct bury.

26 05 19 16-0384 MLF #14 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	770.84
26 05 19 16-0385 MLF #12 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	905.06
26 05 19 16-0386 MLF #10 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	1,107.70
26 05 19 16-0387 MLF #8 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	1,439.19
26 05 19 16-0388 MLF #6 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	1,945.11
26 05 19 16-0389 MLF #4 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	2,534.21
26 05 19 16-0390 MLF #2 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	3,569.67
26 05 19 16-0391 MLF #1 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	4,348.06
26 05 19 16-0392 MLF #1/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	5,271.59
26 05 19 16-0393 MLF #2/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	6,314.39

MINOR  
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 05 19 16-0394	MLF	#3/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	7,522.21	
26 05 19 16-0395	MLF	#4/0 AWG Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	8,466.21	
26 05 19 16-0396	MLF	250 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	9,177.47	
26 05 19 16-0397	MLF	300 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	10,843.00	
26 05 19 16-0398	MLF	350 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	12,066.49	
26 05 19 16-0399	MLF	400 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	13,479.64	
26 05 19 16-0400	MLF	500 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	15,778.65	
26 05 19 16-0401	MLF	600 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	18,505.44	
26 05 19 16-0402	MLF	750 MCM Cable - Type USE, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuits.....	28,487.94	
26 05 19 16-0403	MLF	#14 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	695.14	
26 05 19 16-0404	MLF	#12 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	828.88	
26 05 19 16-0405	MLF	#10 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	983.52	
26 05 19 16-0406	MLF	#8 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,210.78	
26 05 19 16-0407	MLF	#6 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,537.11	
26 05 19 16-0408	MLF	#4 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	2,021.63	
26 05 19 16-0409	MLF	#2 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	2,712.86	
26 05 19 16-0410	MLF	#1 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	3,175.18	
26 05 19 16-0411	MLF	#1/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	3,599.52	
26 05 19 16-0412	MLF	#2/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	4,055.73	
26 05 19 16-0413	MLF	#3/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	4,680.84	
26 05 19 16-0414	MLF	#4/0 AWG Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	5,421.94	
26 05 19 16-0415	MLF	250 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	6,116.55	
26 05 19 16-0416	MLF	300 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	6,845.37	
26 05 19 16-0417	MLF	350 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	7,630.45	
26 05 19 16-0418	MLF	400 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	8,439.98	
26 05 19 16-0419	MLF	500 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	9,726.88	
26 05 19 16-0420	MLF	750 MCM Cable - XLP (XHHW), 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	15,745.79	
26 05 19 16-0421	MLF	#14 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	573.05	
26 05 19 16-0422	MLF	#12 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	706.26	
26 05 19 16-0423	MLF	#10 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	862.62	
26 05 19 16-0424	MLF	#8 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,187.82	
26 05 19 16-0425	MLF	#6 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	1,581.67	
26 05 19 16-0426	MLF	#4 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	2,048.24	
26 05 19 16-0427	MLF	#2 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	2,882.68	
26 05 19 16-0428	MLF	#1 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	3,399.39	
26 05 19 16-0429	MLF	#1/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	3,951.83	
26 05 19 16-0430	MLF	#2/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	4,458.48	
26 05 19 16-0431	MLF	#3/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	5,221.66	
26 05 19 16-0432	MLF	#4/0 AWG Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	6,167.50	
26 05 19 16-0433	MLF	250 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	7,184.01	
26 05 19 16-0434	MLF	300 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	8,239.66	
26 05 19 16-0435	MLF	350 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	9,368.18	
26 05 19 16-0436	MLF	400 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	10,459.94	
26 05 19 16-0437	MLF	500 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	12,291.49	
26 05 19 16-0438	MLF	600 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	14,669.24	
26 05 19 16-0439	MLF	750 MCM Cable - Type THHN-THWN, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	22,536.25	
26 05 19 16-0440	MLF	#2 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	4,667.46	
26 05 19 16-0441	MLF	#1/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	6,660.83	
26 05 19 16-0442	MLF	#2/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	7,399.73	
26 05 19 16-0443	MLF	#3/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	8,396.71	
26 05 19 16-0444	MLF	#4/0 AWG Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	9,327.81	
26 05 19 16-0445	MLF	250 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	10,057.65	
26 05 19 16-0446	MLF	350 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	14,303.34	
26 05 19 16-0447	MLF	400 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	15,541.54	
26 05 19 16-0448	MLF	500 MCM Cable - Type EPR, 600 Volt Single Stranded Copper, Underground Feeder And Branch Circuit.....	17,684.32	

## 26 05 19 16-0449 600 Volt, Armored Cable, Copper Conductors (26 05 19 16-0309)

## 26 05 19 16-0450 ACTHH, Solid (26 05 19 16-0449)

26 05 19 16-0451	MLF	#8 AWG Cable - Type ACT, 1 Conductor, Solid .....	2,134.37	646.51
26 05 19 16-0452	MLF	#6 AWG Cable - Type ACT, 1 Conductor, Solid .....	2,453.50	732.71
26 05 19 16-0453	MLF	#4 AWG Cable - Type ACT, 1 Conductor, Solid .....	2,768.00	775.82
26 05 19 16-0454	MLF	#14 AWG Cable - Type ACTHH, 2 Conductors, Solid .....	3,169.55	1,077.52
26 05 19 16-0455	MLF	#12 AWG Cable - Type ACTHH, 2 Conductors, Solid .....	3,428.79	1,206.61
26 05 19 16-0456	MLF	#10 AWG Cable - Type ACTHH, 2 Conductors, Solid .....	4,220.79	1,336.88
26 05 19 16-0457	MLF	#8 AWG Cable - Type ACTHH, 2 Conductors, Solid .....	5,339.43	1,465.96
26 05 19 16-0458	MLF	#14 AWG Cable - Type ACTHH, 3 Conductors, Solid .....	3,771.93	1,206.61
26 05 19 16-0459	MLF	#12 AWG Cable - Type ACTHH, 3 Conductors, Solid .....	3,997.44	1,336.88
26 05 19 16-0460	MLF	#10 AWG Cable - Type ACTHH, 3 Conductors, Solid .....	4,985.37	1,509.18
26 05 19 16-0461	MLF	#8 AWG Cable - Type ACTHH, 3 Conductors, Solid .....	6,272.55	1,637.62
26 05 19 16-0462	MLF	#14 AWG Cable - Type ACTHH, 4 Conductors, Solid .....	4,433.47	1,336.88
26 05 19 16-0463	MLF	#12 AWG Cable - Type ACTHH, 4 Conductors, Solid .....	4,885.99	1,509.18
26 05 19 16-0464	MLF	#10 AWG Cable - Type ACTHH, 4 Conductors, Solid .....	6,066.39	1,681.04
26 05 19 16-0465	MLF	#8 AWG Cable - Type ACTHH, 4 Conductors, Solid .....	7,636.29	1,810.99



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 19 16-0466 ACTHH, Stranded</b> <small>(26 05 19 16-0449)</small>					
			MLF #8 AWG Cable - Type ACTHH, 2 Conductors, Stranded.....	5,555.94	1,552.60
			MLF #6 AWG Cable - Type ACTHH, 2 Conductors, Stranded.....	6,696.73	1,766.38
			MLF #8 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	6,488.71	1,724.03
			MLF #6 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	7,999.59	1,938.03
			MLF #4 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	9,940.31	2,155.04
			MLF #3 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	11,361.03	2,368.18
			MLF #2 AWG Cable - Type ACTHH, 3 Conductors, Stranded.....	12,938.84	2,584.00
			MLF #8 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	8,279.34	2,068.19
			MLF #6 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	9,888.19	2,282.83
			MLF #4 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	12,452.70	2,500.06
			MLF #3 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	13,631.35	2,714.16
			MLF #2 AWG Cable - Type ACTHH, 4 Conductors, Stranded.....	15,994.25	2,928.05
<b>26 05 19 16-0479 HCFC, Solid</b> <small>(26 05 19 16-0449)</small>					
			MLF #14 AWG Cable - Type HCF, 2 Conductors, Solid.....	3,468.38	1,077.52
			MLF #12 AWG Cable - Type HCF, 2 Conductors, Solid.....	3,816.55	1,210.70
			MLF #10 AWG Cable - Type HCF, 2 Conductors, Solid.....	4,251.83	1,330.31
			MLF #14 AWG Cable - Type HCF, 3 Conductors, Solid.....	4,145.86	1,210.70
			MLF #12 AWG Cable - Type HCF, 3 Conductors, Solid.....	4,467.32	1,330.31
			MLF #10 AWG Cable - Type HCF, 3 Conductors, Solid.....	5,706.33	1,517.68
			MLF #14 AWG Cable - Type HCF, 4 Conductors, Solid.....	4,997.41	1,330.31
			MLF #12 AWG Cable - Type HCF, 4 Conductors, Solid.....	5,499.61	1,517.68
			MLF #10 AWG Cable - Type HCF, 4 Conductors, Solid.....	7,278.23	1,683.63
<b>26 05 19 16-0489 MC, Solid Or Stranded, Galvanized Steel Armor</b> <small>(26 05 19 16-0449)</small>					
			MLF #14 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	3,199.06	1,077.52
			MLF #12 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	3,576.27	1,210.70
			MLF #10 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	4,244.57	1,330.31
			MLF #8 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	5,306.75	1,421.58
			MLF #6 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	6,493.27	1,507.02
			MLF #14 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	3,680.21	1,210.70
			MLF #12 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	4,136.78	1,330.31
			MLF #10 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	5,181.86	1,517.68
			MLF #8 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	6,589.23	1,637.62
			MLF #6 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	7,641.64	1,766.38
			MLF #4 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	9,331.71	1,897.09
			MLF #2 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	11,784.17	2,025.42
			MLF #14 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	4,235.14	1,330.31
			MLF #12 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	4,849.06	1,517.68
			MLF #10 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	7,065.90	1,683.63
			MLF #8 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	9,400.37	1,854.62
			MLF #6 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	11,368.62	1,984.36
			MLF #4 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	14,786.62	2,112.80
			MLF #2 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Galvanized Steel Armor.....	18,895.01	2,240.17
<b>26 05 19 16-0509 MC, Solid Or Stranded, Aluminum Armor</b> <small>(26 05 19 16-0449)</small>					
			MLF #14 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Aluminum Armor.....	3,176.69	1,077.52
			MLF #12 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Aluminum Armor.....	3,518.28	1,210.70
			MLF #10 AWG Cable - Type MC, 2 Conductors, Solid Or Stranded, Aluminum Armor.....	4,193.27	1,330.31
			MLF #8 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Aluminum Armor.....	3,773.62	1,210.70
			MLF #12 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Aluminum Armor.....	4,085.25	1,330.31
			MLF #10 AWG Cable - Type MC, 3 Conductors, Solid Or Stranded, Aluminum Armor.....	5,141.11	1,517.68
			MLF #14 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Aluminum Armor.....	4,679.23	1,330.31
			MLF #12 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Aluminum Armor.....	5,170.93	1,517.68
			MLF #10 AWG Cable - Type MC, 4 Conductors, Solid Or Stranded, Aluminum Armor.....	7,065.90	1,683.63
<b>26 05 19 16-0519 FPLP Solid TFN Red Armored Cable</b> <small>(26 05 19 16-0449)</small>					
			Note: Color coded red.		
			MLF #18/2 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	2,949.98	818.92
			MLF #18/4 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	3,364.71	948.22
			MLF #18/6 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	4,092.24	1,077.52
			MLF #18/8 With Bare #18 Ground Type TFN FPLP Red Armored Cable.....	4,670.39	1,206.82
			MLF #16/2 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	3,370.66	948.22
			MLF #16/4 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	3,949.36	1,077.52
			MLF #16/6 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	4,841.94	1,206.82
			MLF #16/8 With Bare #16 Ground Type TFN FPLP Red Armored Cable.....	5,478.55	1,336.12
<b>26 05 19 16-0528 FPLP Solid THHN Red Armored Cable</b> <small>(26 05 19 16-0449)</small>					
			Note: Color coded red.		
			MLF #14/2 With #14 Ground Type THHN FPLP Red Armored Cable.....	3,763.73	1,077.52
			MLF #14/4 With #14 Ground Type THHN FPLP Red Armored Cable.....	4,568.10	1,206.82
			MLF #14/6 With #14 Ground Type THHN FPLP Red Armored Cable.....	5,861.17	1,336.12
			MLF #14/8 With #14 Ground Type THHN FPLP Red Armored Cable.....	6,728.33	1,465.42
			MLF #12/2 With #12 Ground Type THHN FPLP Red Armored Cable.....	4,625.47	1,206.82

**26 Electrical****26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0534 MLF #12/4 With #12 Ground Type THHN FPLP Red Armored Cable .....	5,546.74	1,336.12
<b>26 05 19 16-0535 FPLP Twisted Shielded Pair Red Armored Cable</b> (26 05 19 16-0449)		
Note: Color coded red.		
26 05 19 16-0536 MLF #18/2 With #18 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	3,144.81	818.92
26 05 19 16-0537 MLF #18/2 With #18 Tinned Ground And #14/2 With #14 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable .....	4,954.51	1,206.82
26 05 19 16-0538 MLF #16/2 With #16 Tinned Ground FPLP Twisted Shielded Pair Red Armored Cable.....	3,820.39	948.22
26 05 19 16-0539 MLF #16/4 With Two #16 Tinned Grounds FPLP Twisted Shielded Pair Red Armored Cable .....	4,478.64	1,077.52
26 05 19 16-0540 MLF #16/2 With #16 Tinned Ground And #12/2 With #12 Ground FPLP Twisted Shielded Pair Red Armored Cable.....	6,097.67	1,336.12
26 05 19 16-0541 MLF #14/2 With One #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable .....	4,483.03	1,120.62
26 05 19 16-0542 MLF #14/4 With Two #16 Tinned Ground And One #14 Ground FPLP Twisted Shielded Pair Red Armored Cable .....	5,464.97	1,293.03
<b>26 05 19 16-0543 Armored Cable Connectors</b> (26 05 19 16-0449)		
26 05 19 16-0544 EA 3/4" Armored Cable Connector .....	6.31	2.36
For Work In Restricted Working Space, Add	1.77	
For Installation Above 14', Add	0.89	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1.77	
26 05 19 16-0545 EA 1" Armored Cable Connector .....	7.43	2.76
For Work In Restricted Working Space, Add	2.07	
For Installation Above 14', Add	1.03	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.07	
26 05 19 16-0546 EA 1-1/4" Armored Cable Connector .....	10.57	3.94
For Work In Restricted Working Space, Add	2.96	
For Installation Above 14', Add	1.48	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	2.96	
<b>26 05 19 16-0547 600 Volt, Feeder Wire, Single Stranded Copper</b> (26 05 19 16-0309)		
26 05 19 16-0548 MLF #14 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	766.97	157.91
For EPR Insulation, Add	26.39	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	61.57	
26 05 19 16-0549 MLF #12 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	868.88	174.86
For EPR Insulation, Add	26.90	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	62.77	
26 05 19 16-0550 MLF #10 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,049.88	218.59
For EPR Insulation, Add	39.27	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	91.64	
26 05 19 16-0551 MLF #8 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,415.51	347.73
For EPR Insulation, Add	64.56	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	150.65	
26 05 19 16-0552 MLF #6 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,905.38	417.27
For EPR Insulation, Add	108.49	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	253.15	
26 05 19 16-0553 MLF #4 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,571.85	484.46
For EPR Insulation, Add	164.14	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	382.98	
26 05 19 16-0554 MLF #3 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,932.17	554.50
For EPR Insulation, Add	188.63	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	440.14	
26 05 19 16-0555 MLF #2 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,648.83	624.53
For EPR Insulation, Add	266.58	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	622.02	
26 05 19 16-0556 MLF #1 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	4,469.93	695.56
For EPR Insulation, Add	360.19	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	840.45	
26 05 19 16-0557 MLF #1/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	5,363.21	784.71
For EPR Insulation, Add	449.86	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,049.66	
26 05 19 16-0558 MLF #2/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	6,429.56	870.21
For EPR Insulation, Add	565.48	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,319.45	
26 05 19 16-0559 MLF #3/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	7,666.12	971.48
For EPR Insulation, Add	706.64	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,648.82	
26 05 19 16-0560 MLF #4/0 AWG Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	8,630.57	1,080.13
For EPR Insulation, Add	806.97	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,882.94	
26 05 19 16-0561 MLF 250 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	9,207.91	1,184.65
For EPR Insulation, Add	849.25	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	1,981.57	
26 05 19 16-0562 MLF 300 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	10,796.19	1,302.26
For EPR Insulation, Add	1,043.16	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,434.04	
26 05 19 16-0563 MLF 350 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	12,013.47	1,380.58
For EPR Insulation, Add	1,181.42	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	2,756.66	
26 05 19 16-0564 MLF 400 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit.....	13,419.14	1,543.02
For EPR Insulation, Add	1,347.95	
For Chlorosulfonated Polyethylene (CSPE) Synthetic Rubber Jacket, Add	3,145.21	



**Electrical 26**  
**Common Work Results For Electrical 26 05**  
**Low-Voltage Electrical Power Conductors And Cables 26 05 19**

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0565 MLF 500 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i>	15,265.67 1,580.60 3,688.06	1,716.10
26 05 19 16-0566 MLF 600 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i>	17,790.24 1,900.18 4,433.75	1,785.45
26 05 19 16-0567 MLF 750 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i>	28,335.58 3,393.32 7,917.75	1,854.70
26 05 19 16-0568 MLF 1,000 MCM Cable - XLPE-USE-RHH-RHW 600 Volt Copper, Single Stranded, Placed In Conduit..... <i>For EPR Insulation, Add</i>	35,458.89 4,402.71 10,273.00	1,981.78
26 05 19 16-0569 MLF #16 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,247.65	354.43
26 05 19 16-0570 MLF #14 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,521.44	394.03
26 05 19 16-0571 MLF #12 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,892.53	473.23
26 05 19 16-0572 MLF #10 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,236.71	551.44
26 05 19 16-0573 MLF #8 AWG Cable Type SFF-2 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,151.39	590.46
26 05 19 16-0574 MLF #18 AWG Cable - Type TFFN 600 Volt Copper, Single Stranded, Placed In Conduit.....	447.53	197.02
26 05 19 16-0575 MLF #16 AWG Cable - Type TFFN 600 Volt Copper, Single Stranded, Placed In Conduit.....	558.38	216.72
26 05 19 16-0576 MLF #14 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	569.22	158.00
26 05 19 16-0577 MLF #12 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	700.77	188.34
26 05 19 16-0578 MLF #10 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	854.39	236.91
26 05 19 16-0579 MLF #8 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,173.47	312.27
26 05 19 16-0580 MLF #6 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,557.95	377.09
26 05 19 16-0581 MLF #4 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,011.68	445.65
26 05 19 16-0582 MLF #3 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,387.71	504.46
26 05 19 16-0583 MLF #2 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,825.15	564.94
26 05 19 16-0584 MLF #1 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,326.64	637.54
26 05 19 16-0585 MLF #1/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,866.85	698.12
26 05 19 16-0586 MLF #2/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	4,358.75	771.51
26 05 19 16-0587 MLF #3/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	5,094.97	816.03
26 05 19 16-0588 MLF #4/0 AWG Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	6,009.85	918.08
26 05 19 16-0589 MLF 250 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	6,992.02	976.70
26 05 19 16-0590 MLF 300 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	8,011.47	1,106.14
26 05 19 16-0591 MLF 350 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	9,100.33	1,224.15
26 05 19 16-0592 MLF 400 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	10,154.18	1,257.65
26 05 19 16-0593 MLF 500 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	11,912.58	1,330.54
26 05 19 16-0594 MLF 600 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	14,570.74	1,565.77
26 05 19 16-0595 MLF 750 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	21,716.38	1,854.70
26 05 19 16-0596 MLF 1,000 MCM Cable - Type THHN-THWN 600 Volt Copper, Single Stranded, Placed In Conduit.....	25,934.64	2,239.27
26 05 19 16-0597 MLF #16 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,689.47	473.23
26 05 19 16-0598 MLF #14 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	1,916.85	551.44
26 05 19 16-0599 MLF #12 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,208.02	630.94
26 05 19 16-0600 MLF #10 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	2,704.54	708.96
26 05 19 16-0601 MLF #8 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,041.27	788.06
26 05 19 16-0602 MLF #6 AWG Cable - Type TGGT High Temperature 600 Volt Copper, Single Stranded, Placed In Conduit.....	3,671.67	866.08
<b>26 05 19 16-0603 600 Volt, Feeder Wire, Single Stranded Aluminum</b> <small>(26 05 19 16-0309)</small>		
26 05 19 16-0604 MLF #6 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	882.78	289.91
26 05 19 16-0605 MLF #4 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,037.52	337.10
26 05 19 16-0606 MLF #2 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,346.13	432.73
26 05 19 16-0607 MLF #1 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,595.14	483.22
26 05 19 16-0608 MLF #1/0 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,825.69	544.42
26 05 19 16-0609 MLF #2/0 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,051.21	600.89
26 05 19 16-0610 MLF #3/0 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,377.43	678.13
26 05 19 16-0611 MLF #4/0 AWG Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,628.30	748.16
26 05 19 16-0612 MLF 250 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,981.40	822.46
26 05 19 16-0613 MLF 300 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	3,514.05	894.41
26 05 19 16-0614 MLF 350 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	3,715.08	966.35
26 05 19 16-0615 MLF 400 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	4,206.02	1,074.85
26 05 19 16-0616 MLF 500 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	4,633.65	1,183.30
26 05 19 16-0617 MLF 600 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	5,568.67	1,378.42
26 05 19 16-0618 MLF 700 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	6,228.34	1,511.12
26 05 19 16-0619 MLF 750 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	6,393.22	1,567.14
26 05 19 16-0620 MLF 1,000 MCM Cable - Type THHN-THWN, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	8,438.11	1,901.03
26 05 19 16-0621 MLF #8 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,014.29	349.80
26 05 19 16-0622 MLF #6 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,141.68	394.03
26 05 19 16-0623 MLF #4 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,404.87	484.76
26 05 19 16-0624 MLF #2 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,747.60	594.19
26 05 19 16-0625 MLF #1 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,132.48	699.50
26 05 19 16-0626 MLF 1/0 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,431.49	788.36
26 05 19 16-0627 MLF 2/0 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,733.27	875.63
26 05 19 16-0628 MLF 3/0 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	3,064.38	955.33
26 05 19 16-0629 MLF 4/0 AWG Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	3,292.97	1,016.70
26 05 19 16-0630 MLF 250 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	3,636.57	1,087.82
26 05 19 16-0631 MLF 300 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	4,181.30	1,165.83
26 05 19 16-0632 MLF 350 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	4,436.11	1,259.42
26 05 19 16-0633 MLF 400 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	4,938.91	1,373.39
26 05 19 16-0634 MLF 500 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	5,600.86	1,576.12
26 05 19 16-0635 MLF 600 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	6,250.74	1,658.67
26 05 19 16-0636 MLF 700 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	6,800.66	1,748.71

**26 Electrical****26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0637 MLF 750 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit .....	7,099.82	1,858.44
26 05 19 16-0638 MLF 1,000 MCM Cable - XHHW, 600 Volt Aluminum, Single Stranded, Placed In Conduit .....	10,164.18	2,604.54
26 05 19 16-0639 MLF #6 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,132.07	394.03
26 05 19 16-0640 MLF #4 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,400.49	484.66
26 05 19 16-0641 MLF #2 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	1,731.09	594.99
26 05 19 16-0642 MLF #1 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,087.38	695.56
26 05 19 16-0643 MLF #1/0 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,356.50	784.71
26 05 19 16-0644 MLF #2/0 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,637.53	870.21
26 05 19 16-0645 MLF #3/0 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	2,967.92	955.33
26 05 19 16-0646 MLF #4/0 AWG Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	3,196.91	1,016.70
26 05 19 16-0647 MLF 250 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	3,515.78	1,087.13
26 05 19 16-0648 MLF 300 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	4,010.19	1,167.32
26 05 19 16-0649 MLF 350 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	4,286.68	1,261.09
26 05 19 16-0650 MLF 400 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	4,702.40	1,370.24
26 05 19 16-0651 MLF 500 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	5,410.17	1,576.12
26 05 19 16-0652 MLF 600 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	5,941.38	1,654.24
26 05 19 16-0653 MLF 700 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	6,446.47	1,748.71
26 05 19 16-0654 MLF 750 MCM Cable - XLPE-USE 600 Volt Aluminum, Single Stranded, Placed In Conduit.....	6,757.16	1,852.82
<b>26 05 19 16-0655 Non-Metallic Sheathed Cable (26 05 19 16-0309)</b>		
<b>26 05 19 16-0656 Indoor Installation (26 05 19 16-0655)</b>		
Note: For NM, NM-B, NMC-B and NMS-B.		
26 05 19 16-0657 MLF #14-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable.....	2,119.69	748.56
For Installation In Wood Stud Wall (Includes Drilling), Add	280.70	
26 05 19 16-0658 MLF #14-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable.....	2,603.07	906.27
For Installation In Wood Stud Wall (Includes Drilling), Add	339.87	
26 05 19 16-0659 MLF #12-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable.....	2,339.79	851.10
For Installation In Wood Stud Wall (Includes Drilling), Add	302.91	
26 05 19 16-0660 MLF #12-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable.....	2,858.73	945.48
For Installation In Wood Stud Wall (Includes Drilling), Add	354.57	
26 05 19 16-0661 MLF #10-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable.....	2,894.31	945.97
For Installation In Wood Stud Wall (Includes Drilling), Add	354.75	
26 05 19 16-0662 MLF #10-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable.....	3,526.28	1,103.48
For Installation In Wood Stud Wall (Includes Drilling), Add	413.80	
26 05 19 16-0663 MLF #8-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable.....	3,635.71	1,132.84
For Installation In Wood Stud Wall (Includes Drilling), Add	403.39	
26 05 19 16-0664 MLF #8-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable.....	4,679.37	1,369.26
For Installation In Wood Stud Wall (Includes Drilling), Add	487.61	
26 05 19 16-0665 MLF #6-2 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable.....	4,344.04	1,290.45
For Installation In Wood Stud Wall (Includes Drilling), Add	458.06	
26 05 19 16-0666 MLF #6-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable.....	5,559.22	1,556.42
For Installation In Wood Stud Wall (Includes Drilling), Add	554.10	
26 05 19 16-0667 MLF #4-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable.....	7,088.18	1,714.03
For Installation In Wood Stud Wall (Includes Drilling), Add	609.51	
26 05 19 16-0668 MLF #2-3 With Ground Cable, Type NM, 600 Volt Copper, Non-Metallic Sheathed Cable.....	9,659.51	1,861.79
For Installation In Wood Stud Wall (Includes Drilling), Add	664.92	
<b>26 05 19 16-0669 Direct Burial Cable (26 05 19 16-0655)</b>		
Note: Excludes trench and backfill. For NM, NM-B, NMC-B and NMS-B. Copper.		
26 05 19 16-0670 MLF #14-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	2,272.21	
26 05 19 16-0671 MLF #14-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	2,877.57	
26 05 19 16-0672 MLF #12-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	2,868.48	
26 05 19 16-0673 MLF #12-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	3,357.10	
26 05 19 16-0674 MLF #10-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	3,159.77	
26 05 19 16-0675 MLF #10-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	3,968.94	
26 05 19 16-0676 MLF #8-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	4,181.60	
26 05 19 16-0677 MLF #8-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	5,265.83	
26 05 19 16-0678 MLF #6-2 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	5,343.70	
26 05 19 16-0679 MLF #6-3 With Ground Cable, Type UF 600 Volt Copper, Direct Burial Non-Metallic Cable - Excludes Trenching.....	6,358.26	
<b>26 05 19 16-0680 SEU Cable Copper, 3 Conductor (26 05 19 16-0655)</b>		
26 05 19 16-0681 MLF 12-12-12 Cable SEU Copper .....	2,768.30	948.54
26 05 19 16-0682 MLF 10-10-10 Cable SEU Copper .....	3,403.49	1,077.52
26 05 19 16-0683 MLF 8-8-8 Cable SEU Copper .....	4,150.95	1,206.61
26 05 19 16-0684 MLF 6-6-8 Cable SEU Copper .....	4,910.71	1,293.57
26 05 19 16-0685 MLF 6-6-6 Cable SEU Copper .....	5,248.45	1,336.88
26 05 19 16-0686 MLF 4-4-6 Cable SEU Copper .....	6,296.04	1,465.96
26 05 19 16-0687 MLF 4-4-4 Cable SEU Copper .....	6,740.16	1,509.18
26 05 19 16-0688 MLF 3-3-5 Cable SEU Copper .....	7,773.57	1,637.62
26 05 19 16-0689 MLF 3-3-3 Cable SEU Copper .....	8,247.34	1,724.03
26 05 19 16-0690 MLF 2-2-4 Cable SEU Copper .....	8,791.32	1,810.99
26 05 19 16-0691 MLF 2-2-2 Cable SEU Copper .....	9,374.94	1,897.09
26 05 19 16-0692 MLF 1-1-1 Cable SEU Copper .....	11,372.24	2,155.04
26 05 19 16-0693 MLF 1/0-1/0-1/0 Cable SEU Copper .....	13,442.14	2,416.02
26 05 19 16-0694 MLF 2/0-2/0-2/0 Cable SEU Copper .....	16,070.97	2,721.06
26 05 19 16-0695 MLF 3/0-3/0-3/0 Cable SEU Copper .....	19,183.28	3,026.75
26 05 19 16-0696 MLF 4/0-4/0-4/0 Cable SEU Copper .....	21,435.44	3,377.81





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 19 16-0697 SEU Cable Aluminum, 3 Conductor</b> (26 05 19 16-0655)		
26 05 19 16-0698 MLF 8-8-8 Cable SEU Aluminum.....	3,406.88	1,210.70
26 05 19 16-0699 MLF 6-6-6 Cable SEU Aluminum.....	3,814.41	1,330.31
26 05 19 16-0700 MLF 4-4-6 Cable SEU Aluminum.....	4,231.18	1,456.16
26 05 19 16-0701 MLF 4-4-4 Cable SEU Aluminum.....	4,420.69	1,517.68
26 05 19 16-0702 MLF 2-2-4 Cable SEU Aluminum.....	5,261.55	1,795.90
26 05 19 16-0703 MLF 2-2-2 Cable SEU Aluminum.....	5,563.10	1,890.40
26 05 19 16-0704 MLF 1-1-1 Cable SEU Aluminum.....	6,522.03	2,155.04
26 05 19 16-0705 MLF 1/0-1/0-2 Cable SEU Aluminum.....	6,886.23	2,268.50
26 05 19 16-0706 MLF 1/0-1/0-1/0 Cable SEU Aluminum.....	7,867.15	2,394.46
26 05 19 16-0707 MLF 2/0-2/0-1 Cable SEU Aluminum.....	7,780.91	2,565.58
26 05 19 16-0708 MLF 2/0-2/0-2/0 Cable SEU Aluminum.....	8,197.01	2,693.80
26 05 19 16-0709 MLF 3/0-3/0-1/0 Cable SEU Aluminum.....	8,771.82	2,820.74
26 05 19 16-0710 MLF 3/0-3/0-3/0 Cable SEU Aluminum.....	9,350.31	2,993.13
26 05 19 16-0711 MLF 4/0-4/0-2/0 Cable SEU Aluminum.....	9,976.71	3,235.79
26 05 19 16-0712 MLF 4/0-4/0-4/0 Cable SEU Aluminum.....	10,467.23	3,367.25
<b>26 05 19 16-0713 SER Cable Copper, 4 Conductor</b> (26 05 19 16-0655)		
26 05 19 16-0714 MLF 6-6-6-6 Cable SER Copper.....	8,115.10	1,552.60
26 05 19 16-0715 MLF 4-4-4-6 Cable SER Copper.....	10,304.19	1,681.04
26 05 19 16-0716 MLF 3-3-3-5 Cable SER Copper.....	12,060.08	1,897.09
26 05 19 16-0717 MLF 2-2-2-4 Cable SER Copper.....	14,005.03	2,068.19
26 05 19 16-0718 MLF 1-1-1-3 Cable SER Copper.....	16,982.90	2,368.18
26 05 19 16-0719 MLF 1/0-1/0-1/0-2 Cable SER Copper.....	21,454.70	2,714.16
26 05 19 16-0720 MLF 2/0-2/0-2/0-1 Cable SER Copper.....	25,468.44	2,928.05
26 05 19 16-0721 MLF 3/0-3/0-3/0-1/0 Cable SER Copper.....	30,592.26	3,275.12
<b>26 05 19 16-0722 Control Tray Cable, Low Voltage</b> (26 05 19 16-0011)		
Note: Type "TC" multi-conductor (individually numbered conductors) control cables installed in conduit.		
26 05 19 16-0723 MLF 2 Conductor #18 AWG, Stranded, Type TC Control Cable.....	986.10	477.86
For Installation On Exposed Surface, Deduct	-159.29	
For Work In Restricted Working Space, Add	238.93	
26 05 19 16-0724 MLF 3 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,134.76	534.54
For Installation On Exposed Surface, Deduct	-178.18	
For Work In Restricted Working Space, Add	267.27	
26 05 19 16-0725 MLF 4 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,184.44	534.50
For Installation On Exposed Surface, Deduct	-178.18	
For Work In Restricted Working Space, Add	267.27	
26 05 19 16-0726 MLF 5 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,483.17	670.43
For Installation On Exposed Surface, Deduct	-223.47	
For Work In Restricted Working Space, Add	335.21	
26 05 19 16-0727 MLF 7 Conductor #18 AWG, Stranded, Type TC Control Cable.....	1,862.90	816.97
For Installation On Exposed Surface, Deduct	-272.32	
For Work In Restricted Working Space, Add	408.49	
26 05 19 16-0728 MLF 9 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,120.52	898.39
For Installation On Exposed Surface, Deduct	-299.46	
For Work In Restricted Working Space, Add	449.19	
26 05 19 16-0729 MLF 12 Conductor #18 AWG, Stranded, Type TC Control Cable.....	2,514.20	1,020.80
For Installation On Exposed Surface, Deduct	-340.26	
For Work In Restricted Working Space, Add	510.40	
26 05 19 16-0730 MLF 15 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,172.36	1,247.70
For Installation On Exposed Surface, Deduct	-415.90	
For Work In Restricted Working Space, Add	623.85	
26 05 19 16-0731 MLF 19 Conductor #18 AWG, Stranded, Type TC Control Cable.....	3,614.39	1,361.18
For Installation On Exposed Surface, Deduct	-453.72	
For Work In Restricted Working Space, Add	680.59	
26 05 19 16-0732 MLF 25 Conductor #18 AWG, Stranded, Type TC Control Cable.....	4,245.30	1,403.73
For Installation On Exposed Surface, Deduct	-467.91	
For Work In Restricted Working Space, Add	701.87	
26 05 19 16-0733 MLF 30 Conductor #18 AWG, Stranded, Type TC Control Cable.....	5,212.33	1,753.63
For Installation On Exposed Surface, Deduct	-584.54	
For Work In Restricted Working Space, Add	876.82	
26 05 19 16-0734 MLF 37 Conductor #18 AWG, Stranded, Type TC Control Cable.....	6,242.76	2,049.45
For Installation On Exposed Surface, Deduct	-683.15	
For Work In Restricted Working Space, Add	1,024.72	
26 05 19 16-0735 MLF 2 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,075.39	503.37
For Installation On Exposed Surface, Deduct	-167.66	
For Work In Restricted Working Space, Add	251.49	
26 05 19 16-0736 MLF 3 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,242.62	562.67
For Installation On Exposed Surface, Deduct	-187.56	
For Work In Restricted Working Space, Add	281.34	
26 05 19 16-0737 MLF 4 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,446.56	647.78
For Installation On Exposed Surface, Deduct	-215.93	
For Work In Restricted Working Space, Add	323.89	
26 05 19 16-0738 MLF 5 Conductor #16 AWG, Stranded, Type TC Control Cable.....	1,633.41	705.70
For Installation On Exposed Surface, Deduct	-235.23	
For Work In Restricted Working Space, Add	352.85	
26 05 19 16-0739 MLF 7 Conductor #16 AWG, Stranded, Type TC Control Cable.....	2,059.88	859.97
For Installation On Exposed Surface, Deduct	-286.66	
For Work In Restricted Working Space, Add	429.98	

**26 Electrical****26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0740 MLF 9 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,355.13 -315.22 472.84	945.67
26 05 19 16-0741 MLF 12 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,806.97 -358.17 537.26	1,074.52
26 05 19 16-0742 MLF 15 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3,554.93 -437.77 656.65	1,313.31
26 05 19 16-0743 MLF 19 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4,070.03 -477.56 716.35	1,432.69
26 05 19 16-0744 MLF 25 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4,844.88 -492.54 738.81	1,477.61
26 05 19 16-0745 MLF 30 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5,938.41 -615.28 922.92	1,845.83
26 05 19 16-0746 MLF 37 Conductor #16 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	7,129.29 -719.10 1,078.66	2,157.31
26 05 19 16-0747 MLF 2 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,163.63 -175.15 262.72	525.44
26 05 19 16-0748 MLF 3 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,385.88 -197.02 295.52	591.05
26 05 19 16-0749 MLF 4 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,622.70 -225.19 337.78	675.57
26 05 19 16-0750 MLF 5 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,822.29 -242.53 363.79	727.58
26 05 19 16-0751 MLF 7 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,417.90 -297.30 445.94	891.88
26 05 19 16-0752 MLF 9 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,782.41 -328.42 492.64	985.08
26 05 19 16-0753 MLF 12 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3,401.55 -366.45 549.67	1,099.34
26 05 19 16-0754 MLF 15 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4,062.98 -437.77 656.65	1,313.11
26 05 19 16-0755 MLF 19 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,787.52 -508.50 762.74	1,525.88
26 05 19 16-0756 MLF 25 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,067.40 -594.79 892.18	1,783.97
26 05 19 16-0757 MLF 30 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	7,043.28 -664.53 996.80	1,993.59
26 05 19 16-0758 MLF 37 Conductor #14 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8,477.07 -776.63 1,164.95	2,329.89
26 05 19 16-0759 MLF 2 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,349.87 -187.56 281.34	562.67
26 05 19 16-0760 MLF 3 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,607.42 -207.46 311.18	622.57
26 05 19 16-0761 MLF 4 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,950.34 -238.78 358.17	716.35
26 05 19 16-0762 MLF 5 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,202.16 -254.15 381.22	762.45
26 05 19 16-0763 MLF 7 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,892.42 -303.01 454.51	909.03
26 05 19 16-0764 MLF 9 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3,563.40 -358.17 537.26	1,074.52
26 05 19 16-0765 MLF 12 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4,323.54 -404.08 606.11	1,212.24
26 05 19 16-0766 MLF 15 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5,140.38 -463.58 695.36	1,390.73
26 05 19 16-0767 MLF 19 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,070.64 -525.44 788.16	1,576.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0768 MLF 25 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	7,755.83 -614.10 921.14	1,842.28
26 05 19 16-0769 MLF 30 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	8,983.52 -717.72 1,076.59	2,153.18
26 05 19 16-0770 MLF 37 Conductor #12 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	10,855.61 -838.89 1,258.34	2,516.66
26 05 19 16-0771 MLF 2 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	1,600.38 -197.02 295.52	591.05
26 05 19 16-0772 MLF 3 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	1,988.48 -215.93 323.89	648.18
26 05 19 16-0773 MLF 4 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	2,416.79 -246.27 369.40	738.81
26 05 19 16-0774 MLF 5 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	2,803.46 -267.15 400.73	801.45
26 05 19 16-0775 MLF 7 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	3,787.82 -335.32 502.98	1,005.96
26 05 19 16-0776 MLF 9 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	4,484.56 -375.31 562.97	1,125.94
26 05 19 16-0777 MLF 12 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	5,225.85 -437.77 656.65	1,313.31
26 05 19 16-0778 MLF 15 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	6,172.33 -500.62 750.92	1,501.85
26 05 19 16-0779 MLF 19 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	7,313.50 -567.40 851.11	1,702.20
26 05 19 16-0780 MLF 25 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	9,406.72 -663.15 994.73	1,989.45
26 05 19 16-0781 MLF 30 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	10,888.65 -775.06 1,162.58	2,325.17
26 05 19 16-0782 MLF 37 Conductor #10 AWG, Stranded, Type TC Control Cable..... <i>For Installation On Exposed Surface, Deduct For Work In Restricted Working Space, Add</i>	13,189.85 -906.07 1,359.11	2,718.21
<b>26 05 19 16-0783 ACSR (Aluminum Conductor Steel Reinforced)</b> <small>(26 05 19 16-0011)</small> Note: Concentric lay stranded Class A galvanizing installed on poles, aerially.		
<b>26 05 19 16-0784 ACSR Cable</b> <small>(26 05 19 16-0783)</small>		
26 05 19 16-0785 MLF #4 AWG ACSR Cable Swan 6/1 Installed On Poles, Aluminum Cable.....	1,332.47	479.40
26 05 19 16-0786 MLF #4 AWG ACSR Cable Swanate 7/1 Installed On Poles, Aluminum Cable.....	1,396.89	497.78
26 05 19 16-0787 MLF #2 AWG ACSR Cable Sparrow 6/1 Installed On Poles, Aluminum Cable.....	1,474.81	516.94
26 05 19 16-0788 MLF #2 AWG ACSR Cable Sparate 7/1 Installed On Poles, Aluminum Cable.....	1,539.84	535.66
26 05 19 16-0789 MLF #1/0 AWG ACSR Cable Raven 6/1 Installed On Poles, Aluminum Cable.....	1,645.07	553.82
26 05 19 16-0790 MLF #2/0 AWG ACSR Cable Quail 6/1 Installed On Poles, Aluminum Cable.....	1,888.11	627.81
26 05 19 16-0791 MLF #3/0 AWG ACSR Cable Pigeon 6/1 Installed On Poles, Aluminum Cable.....	2,141.11	700.15
26 05 19 16-0792 MLF #4/0 AWG ACSR Cable Penguin 6/1 Installed On Poles, Aluminum Cable.....	2,410.48	773.47
26 05 19 16-0793 MLF #1 Bare Aluminum Wire.....	1,882.12	680.09
26 05 19 16-0794 MLF 336 AWG ACSR Cable Merlin 18/1 Installed On Pole, Aluminum Cable.....	2,967.99	994.01
26 05 19 16-0795 MLF 477 AWG ACSR Cable Hawk 26/1 Installed On Pole, Aluminum Cable.....	3,391.62	1,140.22
<b>26 05 19 16-0796 All Aluminum Conductors</b> <small>(26 05 19 16-0783)</small>		
26 05 19 16-0797 MLF 795.0 ACSR Conductor Aluminum.....	25,248.61	9,304.57
<b>26 05 19 16-0798 Single Conductor Installed On Poles</b> <small>(26 05 19 16-0011)</small>		
<b>26 05 19 16-0799 Bare Stranded Conductor</b> <small>(26 05 19 16-0798)</small>		
26 05 19 16-0800 MLF #12 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	1,163.67	406.17
26 05 19 16-0801 MLF #10 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	1,337.85	442.73
26 05 19 16-0802 MLF #8 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	1,513.22	479.72
26 05 19 16-0803 MLF #6 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	1,799.33	516.94
26 05 19 16-0804 MLF #4 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	2,130.70	554.27
26 05 19 16-0805 MLF #2 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	2,952.26	664.82
26 05 19 16-0806 MLF #1 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	3,372.93	738.47
26 05 19 16-0807 MLF #1/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	3,824.55	810.80
26 05 19 16-0808 MLF #2/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	5,032.36	961.67
26 05 19 16-0809 MLF #3/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	6,059.53	1,105.67
26 05 19 16-0810 MLF #4/0 AWG 1/c Bare Stranded Copper Cable, Installed On Poles.....	6,554.94	1,253.09
26 05 19 16-0811 MLF 250 MCM 1/c Bare Stranded Copper Cable, Installed On Poles.....	8,213.11	1,476.84
26 05 19 16-0812 MLF 300 MCM 1/c Bare Stranded Copper Cable, Installed On Poles.....	8,435.22	1,554.59

**26 Electrical****26 05 Common Work Results For Electrical****26 05 19 Low-Voltage Electrical Power Conductors And Cables**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 19 16-0813 MLF 350 MCM 1/c Bare Stranded Copper Cable, Installed On Poles .....	10,290.58	1,628.03
26 05 19 16-0814 MLF 400 MCM 1/c Bare Stranded Copper Cable, Installed On Poles .....	11,291.72	1,694.82
26 05 19 16-0815 MLF 500 MCM 1/c Bare Stranded Copper Cable, Installed On Poles .....	13,003.35	1,767.15
<b>26 05 19 16-0816 Insulated Stranded Conductor</b> <small>(26 05 19 16-0798)</small>		
26 05 19 16-0817 MLF #12 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles .....	1,232.75	406.17
26 05 19 16-0818 MLF #10 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles .....	1,426.99	442.73
26 05 19 16-0819 MLF #8 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles .....	1,689.18	479.72
26 05 19 16-0820 MLF #6 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles .....	1,832.64	516.94
26 05 19 16-0821 MLF #4 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles .....	2,181.52	554.27
26 05 19 16-0822 MLF #2 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles .....	2,878.87	664.82
26 05 19 16-0823 MLF #1 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles .....	3,365.61	738.47
26 05 19 16-0824 MLF #1/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles .....	3,926.74	810.80
26 05 19 16-0825 MLF #2/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles .....	4,718.57	961.67
26 05 19 16-0826 MLF #3/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles .....	5,622.13	1,105.67
26 05 19 16-0827 MLF #4/0 AWG 1/c Insulated Stranded Copper Cable, Installed On Poles .....	6,589.06	1,253.09
26 05 19 16-0828 MLF 250 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles .....	8,004.34	1,476.84
26 05 19 16-0829 MLF 300 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles .....	8,987.85	1,554.59
26 05 19 16-0830 MLF 350 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles .....	9,797.62	1,628.03
26 05 19 16-0831 MLF 400 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles .....	10,882.98	1,694.82
26 05 19 16-0832 MLF 500 MCM 1/c Insulated Stranded Copper Cable, Installed On Poles .....	12,133.98	1,767.15
<b>26 05 19 16-0833 Bare Solid Conductor</b> <small>(26 05 19 16-0798)</small>		
26 05 19 16-0834 MLF #12 AWG 1/c Bare Solid Copper Cable, Installed On Poles .....	1,163.67	406.17
26 05 19 16-0835 MLF #8 AWG 1/c Bare Solid Copper Cable, Installed On Poles .....	1,513.22	479.72
26 05 19 16-0836 MLF #6 AWG 1/c Bare Solid Copper Cable, Installed On Poles .....	1,799.33	516.94
26 05 19 16-0837 MLF #4 AWG 1/c Bare Solid Copper Cable, Installed On Poles .....	2,109.70	554.27
<b>26 05 19 23 Manufactured Wiring Assemblies</b> <small>(26 05 19)</small>		
<b>26 05 19 23-0001 Festoon Cable Systems Complete System</b> <small>(26 05 19 23)</small>		
<b>26 05 19 23-0002 Components</b> <small>(26 05 19 23-0001)</small>		
26 05 19 23-0003 LF 20' C Channel Type Track, Galvanized Steel Festoon Cable System Components .....	14.41	6.46
26 05 19 23-0004 EA Channel Track Hanger, Plated Steel Festoon Cable System Components .....	57.25	23.70
26 05 19 23-0005 EA Channel Track Joint Clamp Assembly Festoon Cable System Components .....	46.86	23.70
26 05 19 23-0006 EA End Stop For Channel Track Festoon Cable System Components .....	11.91	5.39
26 05 19 23-0007 EA End Clamp And Cable Saddle Assembly With Steel Saddle, Festoon Cable System .....	59.51	26.94
26 05 19 23-0008 EA Cable Supplying Trolley, Steel Saddle With Stainless Steel Ball Bearing Wheel, Festoon Cable .....	45.66	2.15
26 05 19 23-0009 EA Towing Trolley Assembly With Steel Saddle With Stainless Steel Ball Bearing Wheel, Festoon Cable .....	52.38	2.15
26 05 19 23-0010 EA J-Box With 2 Terminal Blocks And Bracket Festoon Cable System Components .....	344.56	134.69
26 05 19 23-0011 EA Watertight Connector For Flat Cable Festoon Cable System Components .....	30.97	10.79
<b>26 05 19 23-0012 Cable</b> <small>(26 05 19 23-0001)</small>		
26 05 19 23-0013 LF 12/c #16 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt .....	7.08	2.15
26 05 19 23-0014 LF 12/c #14 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt .....	7.57	2.15
26 05 19 23-0015 LF 8/c #16 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt .....	6.59	2.15
26 05 19 23-0016 LF 8/c #14 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt .....	6.57	2.15
26 05 19 23-0017 LF 7/c #12 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt .....	7.08	2.15
26 05 19 23-0018 LF 4/c #14 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt .....	5.54	2.15
26 05 19 23-0019 LF 4/c #12 Flat Festoon Cable Polyvinyl Chloride (PVC) Jacketed, 600 Volt .....	5.81	2.15
<b>26 05 19 23-0020 Complete Systems</b> <small>(26 05 19 23-0001)</small>		
26 05 19 23-0021 EA Festoon System, 80' Long, Complete With 7/c #12 And 4/c #14, Wet Environment .....	5,729.07	2,155.04
Note: Includes 10 each cable trolleys with steel saddle, stainless steel wheels, 1 each J-box with terminal strips and brackets, 80 LF C type track, 20' sections, 9 each hangars, 3 each joints, 2 each end stop, 1 each end clamp with steel saddle, 1 each towing trolley with steel saddle, 2 each watertight connectors for 4/c #14, 2 each watertight connectors for 7/c #12, 80 LF each type cable as listed.		
<b>26 05 23 Control-Voltage Electrical Power Cables</b> <small>(26 05)</small>		
<b>26 05 23 00-0001 Cable For Sound System</b> <small>(26 05 23)</small>		
<b>26 05 23 00-0002 Shielded Conductors</b> <small>(26 05 23 00-0001)</small>		
Note: One pair, stranded or solid, copper, PVC jacketed, sizes as indicated on tasks.		
26 05 23 00-0003 MLF 1 Pair #20 AWG Sound System, Placed In Conduit, Shielded .....	831.24	394.03
26 05 23 00-0004 MLF 1 Pair #14 AWG Sound System, Placed In Conduit, Shielded .....	1,212.40	394.03
26 05 23 00-0005 MLF 3 Conductor, #16 AWG Sound System, Placed In Conduit, Shielded .....	1,040.25	233.47
26 05 23 00-0006 MLF 6 Conductor, #18 AWG Sound System, Placed In Conduit, Shielded .....	1,089.89	238.78
<b>26 05 23 00-0007 Cable For HVAC System Controls</b> <small>(26 05 23)</small>		
<b>26 05 23 00-0008 Low Voltage Thermostat Cable To 300 Volts</b> <small>(26 05 23 00-0007)</small>		
Note: For surface or conduit installation.		
26 05 23 00-0009 MLF #20/2 Conductor, Low Volt Thermostat Cable .....	424.25	125.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 23 00-0010 MLF #20/3 Conductor, Low Volt Thermostat Cable .....	483.68	132.29
26 05 23 00-0011 MLF #20/4 Conductor, Low Volt Thermostat Cable .....	524.02	139.88
26 05 23 00-0012 MLF #20/5 Conductor, Low Volt Thermostat Cable .....	626.56	145.79
26 05 23 00-0013 MLF #20/6 Conductor, Low Volt Thermostat Cable .....	656.71	152.68
26 05 23 00-0014 MLF #20/7 Conductor, Low Volt Thermostat Cable .....	722.24	159.04
26 05 23 00-0015 MLF #20/8 Conductor, Low Volt Thermostat Cable .....	779.20	165.40
26 05 23 00-0016 MLF #20/9 Conductor, Low Volt Thermostat Cable .....	845.53	171.99
26 05 23 00-0017 MLF #20/10 Conductor, Low Volt Thermostat Cable .....	909.21	177.16
26 05 23 00-0018 MLF #18/2 Conductor, Low Volt Thermostat Cable .....	460.10	125.60
26 05 23 00-0019 MLF #18/3 Conductor, Low Volt Thermostat Cable .....	547.64	132.29
26 05 23 00-0020 MLF #18/4 Conductor, Low Volt Thermostat Cable .....	625.50	139.88
26 05 23 00-0021 MLF #18/5 Conductor, Low Volt Thermostat Cable .....	668.46	145.79
26 05 23 00-0022 MLF #18/6 Conductor, Low Volt Thermostat Cable .....	740.87	152.68
26 05 23 00-0023 MLF #18/7 Conductor, Low Volt Thermostat Cable .....	760.88	159.04
26 05 23 00-0024 MLF #18/8 Conductor, Low Volt Thermostat Cable .....	838.17	165.40
26 05 23 00-0025 MLF #18/9 Conductor, Low Volt Thermostat Cable .....	987.02	171.99
26 05 23 00-0026 MLF #18/10 Conductor, Low Volt Thermostat Cable .....	1,083.72	177.16

### 26 05 26 Grounding And Bonding For Electrical Systems (26 05)

#### 26 05 26 00-0001 Conductors, Straps And Conduit Jumpers (26 05 26)

##### 26 05 26 00-0002 Single Conductor (26 05 26 00-0001)

##### 26 05 26 00-0003 Copper Bare Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0004 MLF 12 AWG Copper Bare Single Stranded Conductor .....	489.60	196.25
26 05 26 00-0005 MLF 10 AWG Copper Bare Single Stranded Conductor .....	630.22	196.25
26 05 26 00-0006 MLF 8 AWG Copper Bare Single Stranded Conductor .....	771.65	236.39
26 05 26 00-0007 MLF 6 AWG Copper Bare Single Stranded Conductor .....	1,027.96	236.39
26 05 26 00-0008 MLF 4 AWG Copper Bare Single Stranded Conductor .....	1,351.08	285.46
26 05 26 00-0009 MLF 2 AWG Copper Bare Single Stranded Conductor .....	2,073.50	285.46
26 05 26 00-0010 MLF 1 AWG Copper Bare Single Stranded Conductor .....	2,386.33	343.44
26 05 26 00-0011 MLF 1/0 AWG Copper Bare Single Stranded Conductor .....	2,794.59	343.44
26 05 26 00-0012 MLF 2/0 AWG Copper Bare Single Stranded Conductor .....	3,869.38	432.64
26 05 26 00-0013 MLF 3/0 AWG Copper Bare Single Stranded Conductor .....	4,747.18	432.64
26 05 26 00-0014 MLF 4/0 AWG Copper Bare Single Stranded Conductor .....	5,066.35	575.37
26 05 26 00-0015 MLF 250 MCM Copper Bare Single Stranded Conductor .....	6,454.62	575.37
26 05 26 00-0016 MLF 300 MCM Copper Bare Single Stranded Conductor .....	6,495.80	664.57
26 05 26 00-0017 MLF 350 MCM Copper Bare Single Stranded Conductor .....	8,671.99	664.57
26 05 26 00-0018 MLF 500 MCM Copper Bare Single Stranded Conductor .....	11,785.02	820.68

##### 26 05 26 00-0019 Copper Insulated Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0020 MLF 12 AWG Copper Insulated Single Stranded Conductor .....	861.70	267.61
26 05 26 00-0021 MLF 10 AWG Copper Insulated Single Stranded Conductor .....	933.11	267.61
26 05 26 00-0022 MLF 8 AWG Copper Insulated Single Stranded Conductor .....	1,182.11	267.61
26 05 26 00-0023 MLF 6 AWG Copper Insulated Single Stranded Conductor .....	1,356.12	463.87
26 05 26 00-0024 MLF 4 AWG Copper Insulated Single Stranded Conductor .....	1,807.02	463.87
26 05 26 00-0025 MLF 2 AWG Copper Insulated Single Stranded Conductor .....	2,517.69	463.87
26 05 26 00-0026 MLF 1 AWG Copper Insulated Single Stranded Conductor .....	3,025.29	811.76
26 05 26 00-0027 MLF 1/0 AWG Copper Insulated Single Stranded Conductor .....	3,673.33	811.76
26 05 26 00-0028 MLF 2/0 AWG Copper Insulated Single Stranded Conductor .....	4,278.14	811.76
26 05 26 00-0029 MLF 3/0 AWG Copper Insulated Single Stranded Conductor .....	5,062.21	811.76
26 05 26 00-0030 MLF 4/0 AWG Copper Insulated Single Stranded Conductor .....	5,941.38	1,061.54
26 05 26 00-0031 MLF 250 MCM Copper Insulated Single Stranded Conductor .....	7,140.06	1,061.54
26 05 26 00-0032 MLF 300 MCM Copper Insulated Single Stranded Conductor .....	8,285.35	1,061.54
26 05 26 00-0033 MLF 350 MCM Copper Insulated Single Stranded Conductor .....	9,771.74	1,650.29
26 05 26 00-0034 MLF 500 MCM Copper Insulated Single Stranded Conductor .....	12,668.54	1,650.29

##### 26 05 26 00-0035 Copper Bare Single Solid Conductors (26 05 26 00-0002)

26 05 26 00-0036 MLF 12 AWG Copper Bare Single Solid Conductor .....	489.60	196.25
26 05 26 00-0037 MLF 10 AWG Copper Bare Single Solid Conductor .....	630.22	196.25
26 05 26 00-0038 MLF 8 AWG Copper Bare Single Solid Conductor .....	771.65	236.39
26 05 26 00-0039 MLF 6 AWG Copper Bare Single Solid Conductor .....	1,027.96	236.39
26 05 26 00-0040 MLF 4 AWG Copper Bare Single Solid Conductor .....	1,351.08	285.46
26 05 26 00-0041 MLF 2 AWG Copper Bare Single Solid Conductor .....	2,073.50	285.46
26 05 26 00-0042 MLF 1/0 AWG Copper Bare Single Solid Conductor .....	2,794.59	343.44
26 05 26 00-0043 MLF 4/0 AWG Copper Bare Single Solid Conductor .....	5,066.35	454.94

##### 26 05 26 00-0044 Aluminum Bare Single Stranded Conductors (26 05 26 00-0002)

26 05 26 00-0045 MLF 8 AWG Aluminum Bare Single Stranded Conductor .....	558.07	236.39
26 05 26 00-0046 MLF 6 AWG Aluminum Bare Single Stranded Conductor .....	608.44	236.39
26 05 26 00-0047 MLF 4 AWG Aluminum Bare Single Stranded Conductor .....	686.17	285.46
26 05 26 00-0048 MLF 2 AWG Aluminum Bare Single Stranded Conductor .....	842.97	285.46
26 05 26 00-0049 MLF 1 AWG Aluminum Bare Single Stranded Conductor .....	956.89	343.44
26 05 26 00-0050 MLF 1/0 AWG Aluminum Bare Single Stranded Conductor .....	1,095.77	343.44
26 05 26 00-0051 MLF 2/0 AWG Aluminum Bare Single Stranded Conductor .....	1,247.28	432.64
26 05 26 00-0052 MLF 3/0 AWG Aluminum Bare Single Stranded Conductor .....	1,426.00	432.64

**26 Electrical****26 05 Common Work Results For Electrical****26 05 26 Grounding And Bonding For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0053 MLF 4/0 AWG Aluminum Bare Single Stranded Conductor.....	1,700.80	575.37
26 05 26 00-0054 MLF 250 MCM Aluminum Bare Single Stranded Conductor.....	1,894.71	575.37
26 05 26 00-0055 MLF 300 MCM Aluminum Bare Single Stranded Conductor.....	2,217.93	664.57
26 05 26 00-0056 MLF 350 MCM Aluminum Bare Single Stranded Conductor.....	2,496.15	664.57
26 05 26 00-0057 MLF 500 MCM Aluminum Bare Single Stranded Conductor.....	2,946.03	820.68
<b>26 05 26 00-0058 Aluminum Bare Single Solid Conductors (26 05 26 00-0002)</b>		
26 05 26 00-0059 MLF 8 AWG Aluminum Bare Single Solid Conductor.....	558.07	236.39
26 05 26 00-0060 MLF 6 AWG Aluminum Bare Single Solid Conductor.....	608.44	236.39
26 05 26 00-0061 MLF 4 AWG Aluminum Bare Single Solid Conductor.....	686.17	285.46
26 05 26 00-0062 MLF 2 AWG Aluminum Bare Single Solid Conductor.....	842.97	285.46
26 05 26 00-0063 MLF 1 AWG Aluminum Bare Single Solid Conductor.....	920.89	454.94
26 05 26 00-0064 MLF 1/0 AWG Aluminum Bare Single Solid Conductor.....	1,095.77	454.94
26 05 26 00-0065 MLF 2/0 AWG Aluminum Bare Single Solid Conductor.....	1,158.11	432.64
26 05 26 00-0066 MLF 3/0 AWG Aluminum Bare Single Solid Conductor.....	1,246.43	432.64
26 05 26 00-0067 MLF 4/0 AWG Aluminum Bare Single Solid Conductor.....	1,700.80	575.37
26 05 26 00-0068 MLF 250 MCM Aluminum Bare Single Solid Conductor.....	1,894.71	575.37
26 05 26 00-0069 MLF 300 MCM Aluminum Bare Single Solid Conductor.....	2,217.93	664.57
26 05 26 00-0070 MLF 350 MCM Aluminum Bare Single Solid Conductor.....	2,496.15	664.57
26 05 26 00-0071 MLF 500 MCM Aluminum Bare Single Solid Conductor.....	2,946.03	820.68
<b>26 05 26 00-0072 Aluminum Smooth Woven Conductors (26 05 26 00-0002)</b>		
26 05 26 00-0073 LF 10 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.30	0.74
26 05 26 00-0074 LF 16 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.53	0.82
26 05 26 00-0075 LF 24 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	2.97	0.94
26 05 26 00-0076 LF 26 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	3.01	0.96
26 05 26 00-0077 LF 28 Strand x 14 AWG Smooth Weave Aluminum Conductor.....	3.15	1.00
<b>26 05 26 00-0078 Copper Flexible Braid Connector Jumper Strap (26 05 26 00-0001)</b>		
Note: Manufactured from flat extra flexible tinned braid. Ferrules are tin plated pure electrolytic copper with 2 holes, on each end.		
26 05 26 00-0079 EA 100 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	110.46	26.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	16.16	
26 05 26 00-0080 EA 225 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	184.91	32.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	19.40	
26 05 26 00-0081 EA 225 Amp, Copper Flexible Braid Jumper Strap, 18" Length.....	233.06	32.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	19.40	
26 05 26 00-0082 EA 225 Amp, Copper Flexible Braid Jumper Strap, 24" Length.....	280.56	32.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	19.40	
26 05 26 00-0083 EA 400 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	247.70	35.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	24.25	
26 05 26 00-0084 EA 400 Amp, Copper Flexible Braid Jumper Strap, 18" Length.....	316.97	35.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	24.25	
26 05 26 00-0085 EA 400 Amp, Copper Flexible Braid Jumper Strap, 24" Length.....	377.16	35.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	24.25	
26 05 26 00-0086 EA 600 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	319.13	44.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	26.67	
26 05 26 00-0087 EA 800 Amp, Copper Flexible Braid Jumper Strap, 12" Length.....	383.96	53.87
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	32.33	
<b>26 05 26 00-0088 Bonding Jumper For Metallic Conduit (26 05 26 00-0001)</b>		
26 05 26 00-0089 EA 1/2" To 1" Conductor, Bonding Jumper - Metallic Conduit.....	155.43	59.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	33.67	
26 05 26 00-0090 EA 1-1/4" To 2" Conductor, Bonding Jumper - Metallic Conduit.....	191.47	59.26
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	41.45	
26 05 26 00-0091 EA 2-1/2" To 4" Conductor, Bonding Jumper - Metallic Conduit.....	272.77	91.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	48.98	
26 05 26 00-0092 EA 5" To 6" Conductor, Bonding Jumper - Metallic Conduit.....	394.95	91.59
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	59.86	
<b>26 05 26 00-0093 Ground Rods (26 05 26)</b>		
<b>26 05 26 00-0094 Copper-Clad Ground Rods (26 05 26 00-0093)</b>		
26 05 26 00-0095 EA 1/2" Diameter x 8' Long Copper-Clad Ground Rods.....	93.44	80.81
26 05 26 00-0096 EA 5/8" Diameter x 8' Long Copper-Clad Ground Rods.....	97.62	80.81
26 05 26 00-0097 EA 3/4" Diameter x 8' Long Copper-Clad Ground Rods.....	114.49	80.81
26 05 26 00-0098 EA 1/2" Diameter x 10' Long Copper-Clad Ground Rods.....	110.07	80.81
26 05 26 00-0099 EA 5/8" Diameter x 10' Long Copper-Clad Ground Rods.....	115.29	80.81
26 05 26 00-0100 EA 3/4" Diameter x 10' Long Copper-Clad Ground Rods.....	136.38	80.81
<b>26 05 26 00-0101 Copper Grounding Shaft (26 05 26 00-0093)</b>		
26 05 26 00-0102 EA 2-1/8" Diameter x 10' Long Copper Grounding Shaft.....	212.66	80.81
26 05 26 00-0103 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 10' Horizontal Copper Grounding Shaft.....	259.21	80.81
26 05 26 00-0104 EA 2-1/8" Diameter "L" Shaped; 3' Riser x 20' Horizontal Copper Grounding Shaft.....	374.90	80.81



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0105			<b>Ground Access Wells</b> <small>(26 05 26 00-0093)</small>		
26 05 26 00-0106			<b>Precast Ground Access Wells</b> <small>(26 05 26 00-0105)</small>		
26 05 26 00-0107	EA		8" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	178.49	
26 05 26 00-0108	EA		10" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	186.68	
26 05 26 00-0109	EA		12" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	491.19	
26 05 26 00-0110	EA		18" Diameter x 24" Deep Precast Ground Access Well..... Note: With cast iron grate.	499.37	
26 05 26 00-0111			<b>Polyvinyl Chloride (PVC) Ground Access Well</b> <small>(26 05 26 00-0105)</small>		
26 05 26 00-0112	EA		10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well ..... Note: Schedule 40 with cast iron grated cover.	423.28	
26 05 26 00-0113	EA		12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well ..... Note: Schedule 40 with cast iron grated cover.	497.73	
26 05 26 00-0114	EA		18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well ..... Note: Schedule 40 with cast iron grated cover.	926.09	
26 05 26 00-0115	EA		10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well ..... Note: Schedule 40 with flat steel cover.	404.50	
26 05 26 00-0116	EA		12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well ..... Note: Schedule 40 with flat steel cover.	289.70	
26 05 26 00-0117	EA		18" Diameter x 24" Deep Polyvinyl Chloride (PVC) Belled Hub Ground Access Well ..... Note: Schedule 40 with flat steel cover.	888.04	
26 05 26 00-0118	EA		8" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	225.88	
26 05 26 00-0119	EA		10" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	241.58	
26 05 26 00-0120	EA		12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Ground Access Well..... Note: Schedule 40 with flat steel cover.	255.25	
26 05 26 00-0121	EA		8" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover.....	173.33	
26 05 26 00-0122	EA		10" Diameter x 24" Deep Schedule 40 Polyvinyl Chloride (PVC) Ground Access Well, Plastic Cover.....	256.72	
26 05 26 00-0123	EA		8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with flat steel cover.	454.02	
26 05 26 00-0124	EA		10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with flat steel cover.	603.73	
26 05 26 00-0125	EA		8" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with plastic cover.	365.02	
26 05 26 00-0126	EA		10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Slotted Ground Access Well..... Note: Schedule 40 with plastic cover.	531.00	
26 05 26 00-0127	EA		10" Diameter x 36" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	562.46	
26 05 26 00-0128	EA		10" Diameter x 42" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	685.13	
26 05 26 00-0129	EA		12" Diameter x 12" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	302.33	
26 05 26 00-0130	EA		12" Diameter x 24" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	529.50	
26 05 26 00-0131	EA		12" Diameter x 30" Deep Polyvinyl Chloride (PVC) Schedule 80 Ground Access Well..... Note: With cast iron grate, heavy duty.	570.11	
26 05 26 00-0132			<b>Polymer Concrete Ground Access Well</b> <small>(26 05 26 00-0105)</small>		
26 05 26 00-0133	EA		12" x 12" x 12" Polymer Concrete Ground Access Well.....	313.50	
26 05 26 00-0134	EA		12" x 12" x 12" Heavy Duty Polymer Concrete Ground Access Well.....	342.35	
26 05 26 00-0135	EA		12" x 12" x 18" Polymer Concrete Ground Access Well.....	344.39	
26 05 26 00-0136	EA		12" x 12" x 18" Heavy Duty Polymer Concrete Ground Access Well.....	376.08	
26 05 26 00-0137	EA		12" x 12" x 24" Polymer Concrete Ground Access Well.....	376.42	
26 05 26 00-0138	EA		12" x 12" x 24" Heavy Duty Polymer Concrete Ground Access Well.....	411.20	
26 05 26 00-0139	EA		13" x 24" x 18" Polymer Concrete Ground Access Well.....	496.35	
26 05 26 00-0140	EA		13" x 24" x 18" Heavy Duty Polymer Concrete Ground Access Well.....	543.54	
26 05 26 00-0141			<b>High Density Polyethylene (HDPE) Ground Access Well</b> <small>(26 05 26 00-0105)</small>		
26 05 26 00-0142	EA		9" Diameter x 10" Deep High Density Polyethylene (HDPE) Ground Access Well..... Note: With cover.	122.98	
26 05 26 00-0143	EA		14" Diameter x 18" Deep High Density Polyethylene (HDPE) Ground Access Well..... Note: With cover.	169.13	
26 05 26 00-0144			<b>Ground Rod Clamps And Fittings</b> <small>(26 05 26)</small>		
26 05 26 00-0145			<b>Bronze Ground Rod Clamp</b> <small>(26 05 26 00-0144)</small>		
26 05 26 00-0146	EA		1/2" Bronze Ground Rod Clamp.....	22.08	12.18
26 05 26 00-0147	EA		5/8" Bronze Ground Rod Clamp.....	23.13	12.18
26 05 26 00-0148	EA		3/4" Bronze Ground Rod Clamp.....	24.64	12.18
26 05 26 00-0149			<b>Bronze Pipe Clamps</b> <small>(26 05 26 00-0144)</small>		
26 05 26 00-0150	EA		1/2" To 1" Bronze Pipe Ground Clamps.....	28.57	20.25

**26 Electrical****26 05 Common Work Results For Electrical****26 05 26 Grounding And Bonding For Electrical Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 05 26 00-0151 EA 1-1/4" To 2" Bronze Ground Clamps For Pipe .....	35.95	24.24
26 05 26 00-0152 EA 2-1/2" To 3" Bronze Ground Clamps For Pipe .....	51.29	28.34
26 05 26 00-0153 EA 2-1/2" To 4" Bronze Ground Clamps For Pipe .....	63.23	36.42
26 05 26 00-0154 EA 4" To 6" Bronze Ground Clamps For Pipe .....	95.92	52.58
<b>26 05 26 00-0155 Grounding Fittings</b> (26 05 26 00-0144)		
<b>26 05 26 00-0156 Embedded Fittings</b> (26 05 26 00-0155)		
26 05 26 00-0157 EA Ground Insert With 2 - 3/8 x 16 Holes #2-250 MCM Cable Range, Embedded .....	148.75	
26 05 26 00-0158 EA Ground Insert With 4 - 3/8 x 16 Holes #2-250 MCM Cable Range, Embedded .....	158.29	
26 05 26 00-0159 EA Ground Insert With 4 - 3/8 x 16 Holes 250-500 MCM Cable Range, Embedded .....	175.23	
26 05 26 00-0160 EA #8 - 1 AWG, Copper To Aluminum, Grounding Wire Splice.....	142.99	
26 05 26 00-0161 EA 1/0 - 3/0 AWG, Copper To Aluminum, Grounding Wire Splice.....	171.32	
26 05 26 00-0162 EA 4/0 - 300 MCM, Copper To Aluminum, Grounding Wire Splice.....	201.01	
26 05 26 00-0163 EA 350 MCM And Up, Copper To Aluminum, Grounding Wire Splice.....	226.71	
<b>26 05 26 00-0164 Ground Rod Receptacle</b> (26 05 26 00-0155)		
26 05 26 00-0165 EA 1/2" Ground Rod Receptacle .....	321.43	112.06
26 05 26 00-0166 EA 5/8" Ground Rod Receptacle .....	336.19	115.22
26 05 26 00-0167 EA 3/4" Ground Rod Receptacle .....	351.28	118.35
<b>26 05 26 00-0168 Ground Kits For Circuit Breaker Panels</b> (26 05 26 00-0155)		
26 05 26 00-0169 EA 14-8 AWG Copper Ground Kit .....	71.86	26.94
26 05 26 00-0170 EA 12-8 AWG Aluminum Ground Kit .....	66.64	26.94
26 05 26 00-0171 EA 14-4 AWG Copper Ground Kit .....	79.88	26.94
26 05 26 00-0172 EA 12-4 AWG Aluminum Ground Kit .....	75.58	26.94
<b>26 05 26 00-0173 Insulated Grounding Bars</b> (26 05 26 00-0144)		
26 05 26 00-0174 EA Insulated Ground Bar 1/2" x 4" x 10" .....	302.87	27.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.49	
26 05 26 00-0175 EA Insulated Ground Bar SK 9560 1/2" x 4" x 20" .....	318.38	27.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.49	
<b>26 05 26 00-0176 Ground Conductor Bonding</b> (26 05 26)		
<b>26 05 26 00-0177 Ground Conductor Bonding</b> (26 05 26 00-0176)		
<b>26 05 26 00-0178 Splice, Lug, Ground Rod, Rebar Or Structural Steel Cadweld</b> (26 05 26 00-0177)		
26 05 26 00-0179 EA Up To #6 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel .....	129.09	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0180 EA #4 To #1 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	139.85	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0181 EA 1/0 To 4/0 AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel.....	150.63	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0182 EA 250 To 1,000 MCM AWG Cadweld Connection For Splice, Lug, Ground Rod, Rebar Or Structural Steel .....	215.28	
Note: Includes molds, materials and all necessary tools to make connections.		
<b>26 05 26 00-0183 Tee, Wye Or Cross Cadweld</b> (26 05 26 00-0177)		
26 05 26 00-0184 EA Up To #6 AWG Cadweld Connection For Tee, Wye Or Cross.....	145.24	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0185 EA #4 To #1 AWG Cadweld Connection For Tee, Wye Or Cross .....	166.79	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0186 EA 1/0 To 4/0 AWG Cadweld Connection For Tee, Wye Or Cross .....	204.51	
Note: Includes molds, materials and all necessary tools to make connections.		
26 05 26 00-0187 EA 250 To 1,000 MCM AWG Cadweld Connection For Tee, Wye Or Cross.....	247.61	
Note: Includes molds, materials and all necessary tools to make connections.		
<b>26 05 26 00-0188 Grounding Equipment</b> (26 05 26)		
<b>26 05 26 00-0189 Special Grounding Equipment</b> (26 05 26 00-0188)		
<b>26 05 26 00-0190 Ground Reels And Ground Bus</b> (26 05 26 00-0189)		
26 05 26 00-0191 EA Ground Reel With 50' Of Galvanized Steel Cable.....	715.15	
<b>26 05 26 00-0192 Copper Bars</b> (26 05 26 00-0189)		
26 05 26 00-0193 LF 1/4" x 2" Copper Bar .....	41.21	
<b>26 05 26 00-0194 Phenolic Insulators</b> (26 05 26 00-0189)		
26 05 26 00-0195 EA 2" x 2" x 1" Long Phenolic Insulators .....	28.75	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.47	





	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 05 26 00-0196 Grounding Studs <small>(26 05 26 00-0189)</small></b>				
26 05 26 00-0197	EA Ball Grounding Stud.....		41.58	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.65	
<b>26 05 26 00-0198 Equipment Ground Bar Kits <small>(26 05 26 00-0189)</small></b>				
26 05 26 00-0199	EA Switch Rating 30 Ground Bar Kit.....		32.34	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.47	
26 05 26 00-0200	EA Switch Rating 60 Ground Bar Kit.....		41.47	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		7.11	
26 05 26 00-0201	EA Switch Rating 100 Ground Bar Kit.....		48.36	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		8.08	
26 05 26 00-0202	EA Switch Rating 200 Ground Bar Kit.....		84.47	
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.70	
<b>26 05 26 00-0203 Panelboard Ground Bar Kits <small>(26 05 26 00-0189)</small></b>				
26 05 26 00-0204	EA Panelboard Ground Bar Kit.....		123.24	8.08
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		8.08	
<b>26 05 26 00-0205 Circuit Breaker Ground Bar Kits <small>(26 05 26 00-0189)</small></b>				
26 05 26 00-0206	EA 3 Circuit, Ground Bar Kit.....		26.95	4.85
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		4.85	
26 05 26 00-0207	EA 4 Circuit, Ground Bar Kit.....		26.45	4.85
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		4.85	
26 05 26 00-0208	EA 7 Circuit, Ground Bar Kit.....		27.28	4.85
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		4.85	
26 05 26 00-0209	EA 12 Circuit, Ground Bar Kit.....		30.94	5.50
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		5.50	
26 05 26 00-0210	EA 20 Circuit, Ground Bar Kit.....		35.26	6.14
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.14	
26 05 26 00-0211	EA 24 Circuit, Ground Bar Kit.....		38.90	6.79
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.79	
26 05 26 00-0212	EA 30 Circuit, Ground Bar Kit.....		43.46	7.75
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		7.76	
26 05 26 00-0213	EA 54 Circuit, Ground Bar Kit.....		50.26	9.06
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.05	
26 05 26 00-0214	EA 24 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....		55.67	6.79
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.79	
26 05 26 00-0215	EA 30 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....		61.56	7.75
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		7.76	
26 05 26 00-0216	EA 54 Circuit, Ground Bar Kit With #1 To 4/0 Aluminum/Copper Lug.....		68.52	9.06
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.05	
<b>26 20 Low-Voltage Electrical Distribution <small>(26)</small></b>				
<b>26 24 Switchboards And Panelboards <small>(26 20)</small></b>				
<b>26 24 13 Switchboards <small>(26 24)</small></b>				
Note: Installation of free-standing building distribution switchboards. Switchboard sections to be mounted on 4" concrete pad. Includes material, handling, unloading at job site, assembly and installation, wiring connections, testing and cleanup. Exclude concrete pad and foundation.				
<b>26 24 13 00-0001 Fusible Switch Type 240 Volt, 3 Phase, 3 Wire <small>(26 24 13)</small></b>				
<b>26 24 13 00-0002 Incoming Service Section Main Device Only <small>(26 24 13 00-0001)</small></b>				
Note: Copper bus, non-metering type, with fuses.				
26 24 13 00-0003	EA 400 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire.....		3,472.21	942.50
26 24 13 00-0004	EA 600 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire.....		3,828.73	996.93
26 24 13 00-0005	EA 800 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire.....		6,027.78	1,130.86
26 24 13 00-0006	EA 1,200 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire.....		6,491.30	1,212.32
26 24 13 00-0007	EA 1,600 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire.....		10,203.59	1,292.59
26 24 13 00-0008	EA 2,000 Amp Distribution Switchboard With Main Switch, 240 Volt, 3 Phase, 4 Wire.....		11,355.28	1,374.38
26 24 13 00-0009	EA 400 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....		4,139.24	942.50
26 24 13 00-0010	EA 600 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....		5,234.51	996.93
26 24 13 00-0011	EA 800 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....		7,211.66	1,131.83
26 24 13 00-0012	EA 1,200 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....		9,756.11	1,212.32
26 24 13 00-0013	EA 1,600 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....		10,203.59	1,293.89
26 24 13 00-0014	EA 2,000 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....		11,355.28	1,374.38
26 24 13 00-0015	EA 2,500 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....		13,575.84	1,436.87
26 24 13 00-0016	EA 3,000 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....		15,365.16	1,539.35
26 24 13 00-0017	EA 4,000 Amp Distribution Switchboard With MC Main Breaker, 240 Volt, 3 Phase, 4 Wire.....		18,083.48	1,659.38
26 24 13 00-0018	EA 400 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....		2,421.39	835.08
26 24 13 00-0019	EA 600 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....		2,662.52	889.06
26 24 13 00-0020	EA 800 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....		3,051.45	1,023.43
26 24 13 00-0021	EA 1,000 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....		3,279.88	1,066.43
26 24 13 00-0022	EA 1,200 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....		3,481.21	1,104.89
26 24 13 00-0023	EA 1,600 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....		3,805.29	1,184.63
26 24 13 00-0024	EA 2,000 Amp Distribution Switchboard With Main Lug, 240 Volt, 3 Phase, 4 Wire.....		4,112.17	1,265.87



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>26 24 13 00-0025</b>	<b>Branch Breaker Units</b> <small>(26 24 13 00-0001)</small>		
	Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0026	EA 15 - 60 Amp MC Branch Breaker, 240 Volt.....	282.20	32.87
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.72	
26 24 13 00-0027	EA 70 - 100 Amp MC Branch Breaker, 240 Volt.....	414.63	51.72
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	31.03	
26 24 13 00-0028	EA 125 - 225 Amp MC Branch Breaker, 240 Volt.....	1,099.14	94.28
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56.57	
26 24 13 00-0029	EA 100 - 400 Amp MC Branch Breaker, 240 Volt.....	1,936.93	122.84
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	73.70	
26 24 13 00-0030	EA 300 - 600 Amp MC Branch Breaker, 240 Volt.....	3,477.12	301.71
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	181.00	
26 24 13 00-0031	EA 400 - 800 Amp MC Branch Breaker, 240 Volt.....	5,507.99	301.71
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	181.00	
26 24 13 00-0032	EA 600 - 1,200 Amp MC Branch Breaker, 240 Volt.....	8,945.84	537.69
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	322.61	
<b>26 24 13 00-0033</b>	<b>Fusible Switch Type 480 Volt, 3 Phase, 3 Wire</b> <small>(26 24 13)</small>		
<b>26 24 13 00-0034</b>	<b>Incoming Service Section Main Device Only</b> <small>(26 24 13 00-0033)</small>		
	Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0035	EA 400 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	4,901.63	1,222.99
26 24 13 00-0036	EA 600 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	5,454.65	1,222.99
26 24 13 00-0037	EA 800 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	7,917.55	1,589.35
26 24 13 00-0038	EA 1,200 Amp Distribution Switchboard With Main Switch, 480 Volt, 3 Phase, 3 Wire.....	8,942.66	1,589.35
<b>26 24 13 00-0039</b>	<b>Fusible Switch Type 120/240 Volt, 1 Phase, 3 Wire</b> <small>(26 24 13)</small>		
<b>26 24 13 00-0040</b>	<b>Incoming Service Section Main Device Only</b> <small>(26 24 13 00-0039)</small>		
	Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0041	EA 200/400 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,120.48	835.08
26 24 13 00-0042	EA 600 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,461.24	889.06
26 24 13 00-0043	EA 800 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	5,192.71	1,023.43
26 24 13 00-0044	EA 1,200 Amp Distribution Switchboard With Main Switch, 120 / 240 Volt, 1 Phase, 3 Wire.....	5,639.27	1,104.03
26 24 13 00-0045	EA 200/400 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,753.69	835.08
26 24 13 00-0046	EA 600 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	4,687.06	889.06
26 24 13 00-0047	EA 800 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	6,507.84	1,023.43
26 24 13 00-0048	EA 1,200 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	9,226.10	1,104.03
26 24 13 00-0049	EA 2,000 Amp Distribution Switchboard With MC Main Breaker, 120 / 240 Volt, 1 Phase, 3 Wire.....	10,812.75	1,239.15
26 24 13 00-0050	EA 200/400 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	2,231.16	727.22
26 24 13 00-0051	EA 600 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	2,489.34	781.30
26 24 13 00-0052	EA 800 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	2,921.80	915.68
26 24 13 00-0053	EA 1,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,136.36	958.67
26 24 13 00-0054	EA 1,200 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,342.88	996.93
26 24 13 00-0055	EA 1,600 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,622.53	1,066.43
26 24 13 00-0056	EA 2,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	3,894.87	1,130.86
26 24 13 00-0057	EA 2,500 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	4,833.62	1,400.77
26 24 13 00-0058	EA 3,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	5,400.13	1,535.46
26 24 13 00-0059	EA 4,000 Amp Distribution Switchboard With Main Lug, 120 / 240 Volt, 1 Phase, 3 Wire.....	6,305.07	1,656.69
<b>26 24 13 00-0060</b>	<b>Branch Breaker Units</b> <small>(26 24 13 00-0039)</small>		
	Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 240 V, 2 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0061	EA 15 - 60 Amp MC Branch Breaker, 120 / 240 Volt.....	155.34	28.56
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17.13	
26 24 13 00-0062	EA 70 - 100 Amp MC Branch Breaker, 120 / 240 Volt.....	247.44	47.41
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28.45	
26 24 13 00-0063	EA 125 - 225 Amp MC Branch Breaker, 120 / 240 Volt.....	727.86	66.26
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.76	
26 24 13 00-0064	EA 100 - 400 Amp MC Branch Breaker, 120 / 240 Volt.....	2,057.69	85.13
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51.07	
26 24 13 00-0065	EA 300 - 600 Amp MC Branch Breaker, 120 / 240 Volt.....	3,265.61	207.43
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.44	
26 24 13 00-0066	EA 400 - 800 Amp MC Branch Breaker, 120 / 240 Volt.....	4,613.20	207.43
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	124.44	
26 24 13 00-0067	EA 600 - 1,200 Amp MC Branch Breaker, 120 / 240 Volt.....	7,624.77	395.99
	<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	237.62	
<b>26 24 13 00-0068</b>	<b>Fusible Switch Type 120/208 Volt, 3 Phase, 4 Wire</b> <small>(26 24 13)</small>		
<b>26 24 13 00-0069</b>	<b>Incoming Service Section Main Device Only</b> <small>(26 24 13 00-0068)</small>		
	Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0070	EA 400 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,473.53	942.50
26 24 13 00-0071	EA 600 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,827.26	996.93
26 24 13 00-0072	EA 800 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	6,025.87	1,130.86
26 24 13 00-0073	EA 1,200 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	6,489.11	1,212.32



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0074 EA 1,600 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	10,198.62	1,292.59
26 24 13 00-0075 EA 2,000 Amp Distribution Switchboard With Main Switch, 120 / 208 Volt, 3 Phase, 4 Wire.....	11,355.28	1,374.38
26 24 13 00-0076 EA 400 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	4,140.56	942.50
26 24 13 00-0077 EA 600 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	5,233.04	996.93
26 24 13 00-0078 EA 800 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	7,211.66	1,131.83
26 24 13 00-0079 EA 1,200 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	9,753.92	1,212.32
26 24 13 00-0080 EA 1,600 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	10,201.10	1,293.89
26 24 13 00-0081 EA 2,000 Amp Distribution Switchboard With MC Main Breaker, 120 / 208 Volt, 3 Phase, 4 Wire.....	11,355.28	1,374.38
26 24 13 00-0082 EA 400 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	2,526.51	835.08
26 24 13 00-0083 EA 600 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	2,810.44	889.06
26 24 13 00-0084 EA 800 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,272.79	1,023.43
26 24 13 00-0085 EA 1,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,510.23	1,066.43
26 24 13 00-0086 EA 1,200 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	3,738.74	1,104.89
26 24 13 00-0087 EA 1,600 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	4,053.72	1,184.63
26 24 13 00-0088 EA 2,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	4,373.22	1,265.87
26 24 13 00-0089 EA 2,500 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	5,170.86	1,438.49
26 24 13 00-0090 EA 3,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	5,704.21	1,539.24
26 24 13 00-0091 EA 4,000 Amp Distribution Switchboard With Main Lug, 120 / 208 Volt, 3 Phase, 4 Wire.....	6,682.72	1,654.00
<b>26 24 13 00-0092 Branch Breaker Units</b> <small>(26 24 13 00-0068)</small>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 120/208 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0093 EA 15 - 60 Amp MC Branch Breaker, 120/208 Volt.....	282.20	32.87
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	19.72	
26 24 13 00-0094 EA 70 - 100 Amp MC Branch Breaker, 120/208 Volt.....	414.63	51.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	31.03	
26 24 13 00-0095 EA 125 - 225 Amp MC Branch Breaker, 120/208 Volt.....	1,099.14	94.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	56.57	
26 24 13 00-0096 EA 100 - 400 Amp MC Branch Breaker, 120/208 Volt.....	1,936.93	122.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	73.70	
26 24 13 00-0097 EA 300 - 600 Amp MC Branch Breaker, 120/208 Volt.....	3,477.12	301.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	181.00	
26 24 13 00-0098 EA 400 - 800 Amp MC Branch Breaker, 120/208 Volt.....	5,507.99	301.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	181.00	
26 24 13 00-0099 EA 600 - 1,200 Amp MC Branch Breaker, 120/208 Volt.....	8,945.84	537.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	322.61	
<b>26 24 13 00-0100 Fusible Switch Type 277/480 Volt, 3 Phase, 4 Wire</b> <small>(26 24 13)</small>		
<b>26 24 13 00-0101 Incoming Service Section Main Device Only</b> <small>(26 24 13 00-0100)</small>		
Note: Copper bus, non-metering type, with fuses.		
26 24 13 00-0102 EA 400 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire.....	4,525.44	1,292.59
26 24 13 00-0103 EA 600 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire.....	4,952.83	1,374.38
26 24 13 00-0104 EA 800 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire.....	6,909.31	1,534.06
26 24 13 00-0105 EA 1,200 Amp Distribution Switchboard With Main Switch, 480 / 277 Volt, 3 Phase, 4 Wire.....	7,541.69	1,642.57
26 24 13 00-0106 EA 400 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	5,657.91	1,292.59
26 24 13 00-0107 EA 600 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	7,491.08	1,374.38
26 24 13 00-0108 EA 800 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	8,480.95	1,535.79
26 24 13 00-0109 EA 1,200 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	10,614.38	1,642.57
26 24 13 00-0110 EA 1,600 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	11,116.39	1,751.51
26 24 13 00-0111 EA 2,000 Amp Distribution Switchboard With MC Main Breaker, 480 / 277 Volt, 3 Phase, 4 Wire.....	12,327.22	1,860.34
26 24 13 00-0112 EA 400 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	2,526.51	835.08
26 24 13 00-0113 EA 600 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	2,810.44	889.06
26 24 13 00-0114 EA 800 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	3,272.79	1,023.43
26 24 13 00-0115 EA 1,000 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	3,510.23	1,066.43
26 24 13 00-0116 EA 1,200 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	3,738.74	1,104.89
26 24 13 00-0117 EA 1,600 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	4,053.72	1,184.63
26 24 13 00-0118 EA 2,000 Amp Distribution Switchboard With Main Lug, 480 / 277 Volt, 3 Phase, 4 Wire.....	4,373.22	1,265.87
<b>26 24 13 00-0119 Branch Breaker Units</b> <small>(26 24 13 00-0100)</small>		
Note: Includes branch breaker(s) and portion of distribution section occupied by that breaker. 480 V, 3 pole. Use upper range to determine breaker unless designing for future expansion.		
26 24 13 00-0120 EA 15 - 60 Amp MC Branch Breaker, 480 / 277 Volt.....	573.10	32.87
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	19.72	
26 24 13 00-0121 EA 70 - 100 Amp MC Branch Breaker, 480 / 277 Volt.....	664.94	51.72
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	31.03	
26 24 13 00-0122 EA 125 - 225 Amp MC Branch Breaker, 480 / 277 Volt.....	1,206.02	94.28
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	56.57	
26 24 13 00-0123 EA 100 - 400 Amp MC Branch Breaker, 480 / 277 Volt.....	1,936.93	122.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	73.70	
26 24 13 00-0124 EA 300 - 600 Amp MC Branch Breaker, 480 / 277 Volt.....	4,643.41	301.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	181.00	
26 24 13 00-0125 EA 400 - 800 Amp MC Branch Breaker, 480 / 277 Volt.....	4,747.59	301.71
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	181.00	
26 24 13 00-0126 EA 600 - 1,200 Amp MC Branch Breaker, 480 / 277 Volt.....	7,634.77	537.69
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		
	322.61	
<b>26 24 13 00-0127 Fusible Branch Circuit Switch</b> <small>(26 24 13)</small>		
Note: Includes switch fuses, and portion of distribution section occupied by that branch device.		

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 24</b>	<b>Switchboards And Panelboards</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 13 00-0128</b> <b>240 Volt, 2 Pole Twin Branch Switch Units</b> <small>(26 24 13 00-0127)</small>		
26 24 13 00-0129    EA    30/30 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit.....	606.42	84.59
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0130    EA    30/60 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit.....	604.39	84.59
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0131    EA    60/60 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit.....	604.39	84.59
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0132    EA    60/100 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit.....	941.92	111.52
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0133    EA    100/100 Amp, 240 Volt, 2 Pole Twin Branch Switch Unit.....	941.92	111.52
For Electrical Interlock Kit, Add	236.53	
<b>26 24 13 00-0134</b> <b>240 Volt, 2 Pole Single Branch Switch Units</b> <small>(26 24 13 00-0127)</small>		
26 24 13 00-0135    EA    100 Amp, 240 Volt, 2 Pole Single Branch Switch Unit.....	689.36	82.97
For Electrical Interlock Kit, Add	226.59	
26 24 13 00-0136    EA    200 Amp, 240 Volt, 2 Pole Single Branch Switch Unit.....	993.21	82.97
For Electrical Interlock Kit, Add	226.59	
26 24 13 00-0137    EA    400 Amp, 240 Volt, 2 Pole Single Branch Switch Unit.....	2,556.09	223.58
<b>26 24 13 00-0138</b> <b>240 Volt, 3 Pole Twin Branch Switch Units</b> <small>(26 24 13 00-0127)</small>		
26 24 13 00-0139    EA    30/30 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit.....	773.01	95.36
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0140    EA    30/60 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit.....	770.98	95.36
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0141    EA    60/60 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit.....	770.98	95.36
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0142    EA    60/100 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,156.41	127.69
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0143    EA    100/100 Amp, 240 Volt, 3 Pole Twin Branch Switch Unit.....	1,156.41	127.69
For Electrical Interlock Kit, Add	236.53	
<b>26 24 13 00-0144</b> <b>240 Volt, 3 Pole Single Branch Switch Units</b> <small>(26 24 13 00-0127)</small>		
26 24 13 00-0145    EA    100 Amp, 240 Volt, 3 Pole Single Branch Switch Unit.....	832.79	93.74
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0146    EA    200 Amp, 240 Volt, 3 Pole Single Branch Switch Unit.....	1,328.11	93.74
For Electrical Interlock Kit, Add	226.59	
26 24 13 00-0147    EA    400 Amp, 240 Volt, 3 Pole Single Branch Switch Unit.....	3,407.98	250.31
26 24 13 00-0148    EA    600 Amp, 240 Volt, 3 Pole Single Branch Switch Unit.....	4,855.22	320.67
26 24 13 00-0149    EA    800 Amp, 240 Volt, 3 Pole Single Branch Switch Unit.....	8,985.91	434.46
<b>26 24 13 00-0150</b> <b>600 Volt, 3 Pole Twin Branch Switch Units</b> <small>(26 24 13 00-0127)</small>		
26 24 13 00-0151    EA    30/30 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,079.73	95.36
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0152    EA    30/60 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,077.68	95.36
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0153    EA    60/60 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,079.73	95.36
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0154    EA    60/100 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,619.21	127.69
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0155    EA    100/100 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit.....	1,653.46	127.69
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0156    EA    200/200 Amp, 600 Volt, 3 Pole Twin Branch Switch Unit.....	3,487.74	167.02
For Electrical Interlock Kit, Add	236.53	
<b>26 24 13 00-0157</b> <b>600 Volt, 3 Pole, Single Branch Switch Units</b> <small>(26 24 13 00-0127)</small>		
26 24 13 00-0158    EA    100 Amp, 600 Volt, 3 Pole Single Branch Switch Unit.....	1,163.14	93.74
For Electrical Interlock Kit, Add	236.53	
26 24 13 00-0159    EA    200 Amp, 600 Volt, 3 Pole Single Branch Switch Unit.....	1,747.51	93.74
For Electrical Interlock Kit, Add	226.59	
26 24 13 00-0160    EA    400 Amp, 600 Volt, 3 Pole Single Branch Switch Unit.....	4,258.70	250.31
For Electrical Interlock Kit, Add	226.59	
26 24 13 00-0161    EA    600 Amp, 600 Volt, 3 Pole Single Branch Switch Unit.....	5,177.22	320.67
26 24 13 00-0162    EA    800 Amp, 600 Volt, 3 Pole Single Branch Switch Unit.....	8,985.91	434.46
<b>26 24 13 00-0163</b> <b>Service And Distribution Structures</b> <small>(26 24 13)</small>		
<b>26 24 13 00-0164</b> <b>Distribution Section 600 Volts, 250 Volts DC</b> <small>(26 24 13 00-0163)</small>		
<b>26 24 13 00-0165</b> <b>600 Amp Main Bus, 4 Wire</b> <small>(26 24 13 00-0164)</small>		
26 24 13 00-0166    EA    14 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	2,414.38	991.32
26 24 13 00-0167    EA    24 - 30 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	2,857.03	991.32
26 24 13 00-0168    EA    34 - 38 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,182.20	1,260.70
26 24 13 00-0169    EA    42 - 48 Watt Distribution Section, 600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,530.30	1,260.70



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 13 00-0170</b> <b>800 Amp Main Bus, 4 Wire</b> <small>(26 24 13 00-0164)</small>		
26 24 13 00-0171 EA 14 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	2,731.17	1,147.56
26 24 13 00-0172 EA 24 - 30 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,160.06	1,147.56
26 24 13 00-0173 EA 34 - 38 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,530.30	1,422.33
26 24 13 00-0174 EA 42 - 48 Watt Distribution Section, 800 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,843.02	1,422.33
<b>26 24 13 00-0175</b> <b>1,200 Amp Main Bus, 4 Wire</b> <small>(26 24 13 00-0164)</small>		
26 24 13 00-0176 EA 14 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,221.48	1,400.77
26 24 13 00-0177 EA 24 - 30 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,662.13	1,400.77
26 24 13 00-0178 EA 34 - 38 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,056.81	1,724.03
26 24 13 00-0179 EA 42 - 48 Watt Distribution Section, 1,200 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,514.95	1,724.03
<b>26 24 13 00-0180</b> <b>1,600 Amp Main Bus, 4 Wire</b> <small>(26 24 13 00-0164)</small>		
26 24 13 00-0181 EA 14 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	3,909.97	1,535.46
26 24 13 00-0182 EA 24 - 30 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,444.79	1,535.46
26 24 13 00-0183 EA 34 - 38 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,916.55	1,896.43
26 24 13 00-0184 EA 42 - 48 Watt Distribution Section, 1,600 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,315.64	1,896.43
<b>26 24 13 00-0185</b> <b>2,000 Amp Main Bus, 4 Wire</b> <small>(26 24 13 00-0164)</small>		
26 24 13 00-0186 EA 14 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,109.73	1,540.85
26 24 13 00-0187 EA 24 - 30 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,691.47	1,734.81
26 24 13 00-0188 EA 34 - 38 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,778.40	1,734.81
26 24 13 00-0189 EA 42 - 48 Watt Distribution Section, 2,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	4,989.86	1,831.78
<b>26 24 13 00-0190</b> <b>3,000 Amp Main Bus, 4 Wire</b> <small>(26 24 13 00-0164)</small>		
26 24 13 00-0191 EA 24 - 30 Watt Distribution Section, 3,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,518.02	1,734.81
26 24 13 00-0192 EA 34 - 38 Watt Distribution Section, 3,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,603.66	1,734.81
26 24 13 00-0193 EA 42 - 48 Watt Distribution Section, 3,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,815.12	1,831.78
<b>26 24 13 00-0194</b> <b>4,000 Amp Main Bus, 4 Wire</b> <small>(26 24 13 00-0164)</small>		
26 24 13 00-0195 EA 24 - 30 Watt Distribution Section, 4,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,656.17	1,831.78
26 24 13 00-0196 EA 34 - 38 Watt Distribution Section, 4,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,815.12	1,831.78
26 24 13 00-0197 EA 42 - 48 Watt Distribution Section, 4,000 Amp Main Bus, 4 Wire, 600 Volt AC, 250 Volt DC.....	5,891.47	1,831.78
<b>26 24 13 00-0198</b> <b>Pull Boy, Horizontal Mounted Across Top Of Switch Board</b> <small>(26 24 13 00-0164)</small>		
26 24 13 00-0199 EA 18 - 24" Wide, 30" High, Open Bottom, Pull Boy Horizontal Mounted, Top Of Switchboard.....	486.63	129.30
26 24 13 00-0200 EA Drilled Bottom.....	549.27	129.30
26 24 13 00-0201 EA Cable Supports In Pull Box.....	189.62	32.33
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		17.96
<b>26 24 13 00-0202</b> <b>Underground Pull Sections</b> <small>(26 24 13 00-0164)</small>		
<i>Note: Excludes no bus or terminal.</i>		
26 24 13 00-0203 EA 12 - 20" Wide, 15 - 20" Deep Underground Pull Section Without Bus Or Terminal.....	479.20	150.85
26 24 13 00-0204 EA 24 - 28" Wide, 20" Deep Underground Pull Section Without Bus Or Terminal.....	812.96	193.95
26 24 13 00-0205 EA 24 - 28" Wide, 30" Deep Underground Pull Section Without Bus Or Terminal.....	812.96	193.95
26 24 13 00-0206 EA 14 - 20" Wide, 36" Deep Underground Pull Section Without Bus Or Terminal.....	614.74	150.85
26 24 13 00-0207 EA 28 - 30" Wide, 36" Deep Underground Pull Section Without Bus Or Terminal.....	869.25	220.89
26 24 13 00-0208 EA 14 - 20" Wide, 42 - 60" Deep Underground Pull Section Without Bus Or Terminal.....	996.36	220.89
26 24 13 00-0209 EA 26 - 30" Wide, 42 - 60" Deep Underground Pull Section Without Bus Or Terminal.....	1,049.86	285.54
26 24 13 00-0210 EA 38" Wide, 42 - 60" Deep Underground Pull Section Without Bus Or Terminal.....	1,115.05	285.54
<b>26 24 13 00-0211</b> <b>Switchboard Sections</b> <small>(26 24 13 00-0163)</small>		
26 24 13 00-0212 EA 600 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	3,782.64	897.90
26 24 13 00-0213 EA 800 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	4,140.36	976.02
26 24 13 00-0214 EA 1,200 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	5,200.88	1,247.12
26 24 13 00-0215 EA 1,600 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	5,686.78	1,360.47
26 24 13 00-0216 EA 2,000 Amp Switchboard Incoming No Switch Circuit 480 Volt, 4 Wire.....	6,063.89	1,448.29
26 24 13 00-0217 EA 400 Amp Switchboard Incoming For Switch Circuit Section 480 Volt.....	4,397.12	787.67
26 24 13 00-0218 EA Distribution Section Subfeeder Lug-Rated At 200 Amp.....	2,613.76	748.23
26 24 13 00-0219 EA Distribution Section Subfeeder Lug-Rated At 400 Amp.....	2,889.69	811.38
26 24 13 00-0220 EA Distribution Section Aluminum Bus 120/208 Or 277/480 Volt, 4 Wire.....	4,743.23	897.90
26 24 13 00-0221 EA 800 Amp Switchboard Distribution Section Aluminum Bus Less Breaker.....	5,127.71	900.27
26 24 13 00-0222 EA 1,000 Amp Switchboard Distribution Section Aluminum Bus Less Breaker.....	5,645.64	1,005.11
26 24 13 00-0223 EA 15 To 60 Amp, 240 Volt, 1 Phase, Feed Section Circuit Breaker FA Frame.....	151.14	53.87
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		32.90
26 24 13 00-0224 EA 70 To 100 Amp, 240 Volt, 3 Phase, Feed Section Circuit Breaker FA Frame.....	183.70	54.84
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		38.87
26 24 13 00-0225 EA 70 To 225 Amp, 480 Volt, 3 Phase, Feed Section Circuit Breaker KA Frame.....	791.67	64.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		83.75
26 24 13 00-0226 EA 125 To 400 Amp, 480 Volt, 3 Phase, Feed Section Circuit Breaker LA Frame.....	1,298.60	139.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		116.62

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0227 EA 100 Amp, Switchboard Feed Section Branch Circuit Breaker, 240 Volt HIC 3 Phase.....	529.70	194.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.35	
26 24 13 00-0228 EA 225 Amp, Switchboard Feed Section Branch Circuit Breaker, 240 Volt HIC 3 Phase.....	1,430.90	112.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	83.75	
<b>26 24 13 00-0229 Switchboard, Structure Per Section Copper 480 V (26 24 13 00-0163)</b>		
26 24 13 00-0230 EA 225 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	1,961.70	467.64
26 24 13 00-0231 EA 400 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	2,778.41	632.40
26 24 13 00-0232 EA 600 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	3,139.09	769.67
26 24 13 00-0233 EA 800 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	3,997.96	1,077.52
26 24 13 00-0234 EA 1,200 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	4,958.45	1,346.90
26 24 13 00-0235 EA 1,600 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	5,414.61	1,346.90
26 24 13 00-0236 EA 2,000 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	6,733.19	1,795.90
26 24 13 00-0237 EA 2,500 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	7,607.85	1,795.90
26 24 13 00-0238 EA 3,000 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	8,955.79	2,137.91
26 24 13 00-0239 EA 4,000 Amp Switchboard, Structure Per Section, Copper, 480 Volt.....	10,565.25	2,137.91
<b>26 24 13 00-0240 Main Devices (26 24 13)</b>		
<b>26 24 13 00-0241 Power Circuit Breakers (26 24 13 00-0240)</b>		
<b>26 24 13 00-0242 DSL Breaker With Current Limiters And Amptector (26 24 13 00-0241)</b>		
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0243 EA 50 - 800 Amp DSL-206, Main Breaker With Current Limiter, Amptector Static Trip.....	6,698.31	1,131.40
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	677.40	
26 24 13 00-0244 EA 50 - 1,600 Amp DSL-416, Main Breaker With Current Limiter, Amptector Static Trip.....	12,158.98	1,885.66
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,130.27	
26 24 13 00-0245 EA 1,200 - 3,200 Amp DSL-632, Main Breaker With Current Limiter, Amptector Static Trip.....	26,985.96	3,167.91
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,883.78	
26 24 13 00-0246 EA 4,000 Amp DSL-840, Main Breaker With Current Limiter, Amptector Static Trip.....	43,531.83	5,129.00
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,132.32	
26 24 13 00-0247 EA Ground-Fault Trip All Power Breakers - Factory Installed.....	2,190.31	
26 24 13 00-0248 EA Key Interlock All Power Breakers - Factory Installed.....	282.87	
26 24 13 00-0249 EA Short Time Delay Selective Trip - Factory Installed.....	371.11	
26 24 13 00-0250 EA Shunt Trip Manually Open Breakers - Factory Installed.....	267.30	
<b>26 24 13 00-0251 DSL Breaker Electrical Operated And Amptector (26 24 13 00-0241)</b>		
Note: 11 Static trip not applicable to ground-fault or plug in test feature. Manually operated.		
26 24 13 00-0252 EA 50 - 800 Amp DSL-206, Main Breaker, Electrical Operated With Amptector Static Trip.....	7,800.46	1,185.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	714.54	
26 24 13 00-0253 EA 50 - 1,600 Amp DSL-416, Main Breaker, Electrical Operated With Amptector Static Trip.....	14,407.60	1,993.41
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,190.19	
26 24 13 00-0254 EA 1,200 - 3,200 Amp DSL-632, Main Breaker, Electrical Operated With Amptector Static Trip.....	30,235.19	3,286.44
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,980.74	
26 24 13 00-0255 EA 4,000 Amp DSL-840, Main Breaker, Electrical Operated With Amptector Static Trip.....	46,848.03	5,387.60
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,312.05	
<b>26 24 13 00-0256 DS Breakers With Amptector Static Trip, Manually Operated (26 24 13 00-0241)</b>		
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted manually operated.		
26 24 13 00-0257 EA 50 - 800 Amp DS-206, Main Breaker With Groundfault, Amptector Static Trip.....	5,380.98	1,034.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	621.65	
26 24 13 00-0258 EA 50 - 1,600 Amp DS-416, Main Breaker With Groundfault, Amptector Static Trip.....	9,784.45	1,734.81
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,036.07	
26 24 13 00-0259 EA 2,000 Amp DS-420, Main Breaker With Groundfault, Amptector Static Trip.....	14,617.12	2,909.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,726.79	
26 24 13 00-0260 EA 1,200 - 3,200 AMP DS-632, Main Breaker With Groundfault, Amptector Static Trip.....	25,163.86	4,687.21
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,875.94	
26 24 13 00-0261 EA 4,000 Amp DS-840, Main Breaker With Groundfault, Amptector Static Trip.....	41,011.39	7,650.39
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,781.90	
<b>26 24 13 00-0262 DS Breakers With Amptector Static Trip, Electrically Operated (26 24 13 00-0241)</b>		
Note: Includes integral ground fault and plug-in test provision. Excludes system, add price from section drawout mounted electrical operated.		
26 24 13 00-0263 EA 50 - 800 Amp DS-206, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	6,263.56	991.32
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	592.91	
26 24 13 00-0264 EA 50 - 1,600 Amp DS-416, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	11,618.40	1,659.38
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	987.95	
26 24 13 00-0265 EA 2,000 Amp DS-420, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	16,690.43	2,758.45
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,649.27	
26 24 13 00-0266 EA 1,200 - 3,200 Amp DS-632, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	27,562.19	4,493.25
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,748.77	
26 24 13 00-0267 EA 4,000 Amp DS-840, Main Breaker, Electrical Operated With Groundfault, Amptector Static Trip.....	43,277.51	7,704.27
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,591.71	
<b>26 24 13 00-0268 Molded Case Circuit Breakers Conventional (26 24 13 00-0241)</b>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0269 EA 70 - 225 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	2,439.92	905.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	521.38	
26 24 13 00-0270 EA 125 - 400 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	3,451.36	905.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	567.11	
26 24 13 00-0271 EA 300 - 600 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	3,823.89	1,077.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	621.65	
26 24 13 00-0272 EA 400 - 800 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	4,506.50	1,077.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	673.45	
26 24 13 00-0273 EA 600 - 1,200 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	6,531.88	1,293.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	738.03	
26 24 13 00-0274 EA 1,000 - 2,000 Amp 3 Pole Molded Case Circuit Breaker Conventional.....	10,331.29	1,293.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	816.30	
26 24 13 00-0275 EA Shunt Trip, Factory Installed.....	280.28	
26 24 13 00-0276 EA Groundfault Trip Complete Interrupting Circuit, Factory Installed.....	64.88	
<b>26 24 13 00-0277 Switchboard Branch Breaker 480 Volt (26 24 13 00-0240)</b>		
26 24 13 00-0278 EA 60 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	471.38	78.12
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	46.85	
26 24 13 00-0279 EA 100 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	560.10	103.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.17	
26 24 13 00-0280 EA 225 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	1,568.73	156.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	93.65	
26 24 13 00-0281 EA 400 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,069.86	195.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	117.46	
26 24 13 00-0282 EA 600 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	2,514.33	262.59
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	157.53	
26 24 13 00-0283 EA 800 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	3,043.53	336.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	202.04	
26 24 13 00-0284 EA 1,000 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	4,885.26	513.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	307.86	
26 24 13 00-0285 EA 1,200 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	4,885.26	513.11
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	307.86	
26 24 13 00-0286 EA 1,600 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	6,851.41	718.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	431.01	
26 24 13 00-0287 EA 2,000 Amp, 3 Phase, 480 Volt Switchboard Branch Breaker.....	8,613.33	1,077.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	646.51	
<b>26 24 13 00-0288 Switchboard 277/480 Volt Main Breaker (26 24 13 00-0240)</b>		
26 24 13 00-0289 EA 400 Amp, Switchboard 277/480 Volt Main Breaker.....	5,507.68	467.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	280.61	
26 24 13 00-0290 EA 600 Amp, Switchboard 277/480 Volt Main Breaker.....	5,596.59	512.14
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	307.28	
26 24 13 00-0291 EA 800 Amp, Switchboard 277/480 Volt Main Breaker.....	6,111.64	769.67
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	461.79	
26 24 13 00-0292 EA 1,200 Amp, Switchboard 277/480 Volt Main Breaker.....	10,369.10	1,077.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	646.51	
26 24 13 00-0293 EA 1,600 Amp, Switchboard 277/480 Volt Main Breaker.....	10,597.95	1,191.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	715.17	
26 24 13 00-0294 EA 2,000 Amp, Switchboard 277/480 Volt Main Breaker.....	14,190.84	2,137.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	1,282.76	
<b>26 24 13 00-0295 Branch Or Distribution Devices (26 24 13)</b>		
<b>26 24 13 00-0296 3 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)</b>		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0297 EA 15 - 60 Amp, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	377.40	38.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 13 00-0298 EA 70 - 100 Amp, 600 Volt, Type EHB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	388.77	48.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.33	
26 24 13 00-0299 EA 125 - 150 Amp, 600 Volt, Type FB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	887.64	58.19
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.79	
26 24 13 00-0300 EA 70 - 225 Amp, 600 Volt, Type JDB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,279.62	75.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.11	
26 24 13 00-0301 EA 125 - 400 Amp, 600 Volt, Type LBB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,793.58	93.10
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	62.07	
26 24 13 00-0302 EA 300 - 600 Amp, 600 Volt, Type LC, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	2,338.64	108.83
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	72.73	
26 24 13 00-0303 EA 900 - 1,000 Amp, 600 Volt, Type NB, 3 Pole, Panel Mounted, Molded Case Circuit Breaker.....	3,534.53	122.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.11	
<b>26 24 13 00-0304 2 Pole, Panel Mounted, Molded Case Circuit Breakers (26 24 13 00-0295)</b>		
Note: Includes certified refurbished circuit breakers.		
26 24 13 00-0305 EA 15 - 60 Amp, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	261.98	29.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.40	
26 24 13 00-0306 EA 70 - 100 Amp, 600 Volt, Type EHB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	337.75	38.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 13 00-0307 EA 125 - 150 Amp, 600 Volt, Type FB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	876.74	48.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.33	
26 24 13 00-0308 EA 70 - 225 Amp, 600 Volt, Type JDB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,369.87	53.87
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.56	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 13 00-0309 EA 125 - 400 Amp, 600 Volt, Type LBB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	1,459.01	70.04
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46.87	
26 24 13 00-0310 EA 900 - 1,000 Amp, 600 Volt, Type NB, 2 Pole, Panel Mounted, Molded Case Circuit Breaker.....	3,259.61	101.83
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	67.88	
<b>26 24 13 00-0311 Meter Devices And Instrumentation (26 24 13)</b>		
Note: Factory installed accessories.		
<b>26 24 13 00-0312 Instrument Transformers And Metering Compartments (26 24 13 00-0311)</b>		
26 24 13 00-0313 EA 800 Amp And Below Primary Current Transformer, With Compartment.....	338.67	
26 24 13 00-0314 EA 1,000 - 1,500 Amp Primary Current Transformer, With Compartment.....	489.19	
26 24 13 00-0315 EA 2,000 - 6,000 Amp Primary Current Transformer, With Compartment.....	576.12	
26 24 13 00-0316 EA Potential Transformer With 200 VA Max.....	415.22	
26 24 13 00-0317 EA 5 To 800 Amp, Three Current Transformers.....	1,485.34	
26 24 13 00-0318 EA 1,000 To 1,500 Amp, Three Current Transformers.....	2,626.09	
26 24 13 00-0319 EA 2,000 To 4,000 Amp, Three Current Transformers.....	3,417.14	
<b>26 24 13 00-0320 Instruments (26 24 13 00-0311)</b>		
26 24 13 00-0321 EA AC Voltmeter.....	461.94	
26 24 13 00-0322 EA AC Ammeter.....	461.94	
26 24 13 00-0323 EA AC Wattmeter.....	1,233.99	
26 24 13 00-0324 EA Variometer.....	1,393.60	
26 24 13 00-0325 EA Power Factor Meter.....	1,113.32	
26 24 13 00-0326 EA Frequency Meter.....	1,228.80	
26 24 13 00-0327 EA AC Watt-hour Meter Indicating 1 Or 2 Element With Test Block And Plug Block.....	1,563.58	
26 24 13 00-0328 EA AC Watt-hour Meter Recording 2 Element With Recording KW Demand Type R-2.....	2,615.91	
26 24 13 00-0329 EA Weatherproof, Modify Meter.....	2,609.01	
26 24 13 00-0330 EA Control Switch Resistor Type 130 V.....	63.59	
26 24 13 00-0331 EA Metering Instrument Volt, Amp And Watt Hour.....	3,155.45	
<b>26 24 16 Panelboards (26 24)</b>		
<b>26 24 16 00-0001 Branch Circuit Panelboard (26 24 16)</b>		
Note: Includes wiring connections, drilling hole (or removing knock-out on residential units), labeling and testing. All NEMA 3R panelboards include weatherproof hubs. Copper bussing. Panelboards with less than a 30 circuit capacity do not have the door in a door trim front option.		
<b>26 24 16 00-0002 Assembled Lighting And Power Panelboards (26 24 16 00-0001)</b>		
Note: Includes main lugs or breaker (as indicated). 20 Amp, 1 pole branch circuit plug-on breakers (the number of which is indicated). Panelboard box, trim and connection of main service cable from meter.		
<b>26 24 16 00-0003 120/240 Volt, 3 Wire, 1 Phase, Main Lugs Assembled Panelboards (26 24 16 00-0002)</b>		
26 24 16 00-0004 EA 100 Amp Rating, 8 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity.....	1,053.05	307.09
<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0005 EA 100 Amp Rating, 10 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	1,202.93	307.09
<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0006 EA 100 Amp Rating, 12 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	1,370.93	425.62
<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0007 EA 100 Amp Rating, 14 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	1,539.54	425.62
<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0008 EA 100 Amp Rating, 16 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	1,699.39	533.37
<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0009 EA 100 Amp Rating, 18 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity.....	1,863.32	533.37
<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0010 EA 100 Amp Rating, 20 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity.....	2,021.41	614.19
<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0011 EA 225 Amp Rating, 22 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	2,435.94	786.59
<i>For NEMA 3R Panelboard, Add</i>	896.31	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0012 EA 225 Amp Rating, 24 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	2,569.47	786.59
<i>For NEMA 3R Panelboard, Add</i>	896.31	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0013 EA 225 Amp Rating, 26 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	2,698.23	899.73
<i>For NEMA 3R Panelboard, Add</i>	896.31	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0014 EA 225 Amp Rating, 28 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	2,904.52	899.73
<i>For NEMA 3R Panelboard, Add</i>	1,058.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0015 EA 225 Amp Rating, 30 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,030.42 1,058.76 111.86	1,012.87
26 24 16 00-0016 EA 225 Amp Rating, 32 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,220.08 1,058.76 111.86	1,012.87
26 24 16 00-0017 EA 225 Amp Rating, 34 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,339.28 1,058.76 111.86	1,120.62
26 24 16 00-0018 EA 225 Amp Rating, 36 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,525.69 1,058.76 111.86	1,120.62
26 24 16 00-0019 EA 225 Amp Rating, 38 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,700.59 1,058.76 111.86	1,239.15
26 24 16 00-0020 EA 225 Amp Rating, 40 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,818.44 1,101.95 142.96	1,239.15
26 24 16 00-0021 EA 225 Amp Rating, 42 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,998.26 1,101.95 142.96	1,239.15
<b>26 24 16 00-0022 120/240 Volt, 3 Wire, 1 Phase, Main Breaker Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		
26 24 16 00-0023 EA 50 Amp Rating, 8 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,226.79 815.03	296.32
26 24 16 00-0024 EA 50 Amp Rating, 10 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,379.00 815.03	296.32
26 24 16 00-0025 EA 100 Amp Rating, 12 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,737.14 815.03	506.43
26 24 16 00-0026 EA 100 Amp Rating, 14 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,967.53 815.03	506.43
26 24 16 00-0027 EA 100 Amp Rating, 16 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,130.49 815.03	619.58
26 24 16 00-0028 EA 100 Amp Rating, 18 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,300.79 815.03	619.58
26 24 16 00-0029 EA 100 Amp Rating, 20 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,451.34 815.03	743.49
26 24 16 00-0030 EA 225 Amp Rating, 22 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,959.78 896.31 65.50	743.49
26 24 16 00-0031 EA 225 Amp Rating, 24 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,095.13 896.31 65.50	910.51
26 24 16 00-0032 EA 225 Amp Rating, 26 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,242.71 896.31 65.50	910.51
26 24 16 00-0033 EA 225 Amp Rating, 28 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,404.96 1,058.76 111.86	1,023.64
26 24 16 00-0034 EA 225 Amp Rating, 30 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,535.31 1,058.76 111.86	1,023.64
26 24 16 00-0035 EA 225 Amp Rating, 32 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,674.72 1,058.76 111.86	1,120.62
26 24 16 00-0036 EA 225 Amp Rating, 34 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,824.57 1,058.76 111.86	1,120.62
26 24 16 00-0037 EA 225 Amp Rating, 36 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,986.57 1,058.76 111.86	1,325.35

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0038	EA		225 Amp Rating, 38 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,162.79 1,058.76 111.86	1,325.35
26 24 16 00-0039	EA		225 Amp Rating, 40 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,355.81 1,101.95 142.96	1,325.35
26 24 16 00-0040	EA		225 Amp Rating, 42 - 20 Amp Breakers, 120/240 Volt, 3 Wire, 1 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,473.62 1,101.95 142.96	1,400.77
<b>26 24 16 00-0041</b>			<b>120/208 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards</b> (26 24 16 00-0002)		
26 24 16 00-0042	EA		100 Amp Rating, 8 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,265.71 815.03	350.19
26 24 16 00-0043	EA		100 Amp Rating, 10 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,425.93 815.03	350.19
26 24 16 00-0044	EA		100 Amp Rating, 12 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,606.70 815.03	468.72
26 24 16 00-0045	EA		100 Amp Rating, 14 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,795.15 815.03	468.72
26 24 16 00-0046	EA		100 Amp Rating, 16 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,965.03 815.03	576.47
26 24 16 00-0047	EA		100 Amp Rating, 18 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,146.97 815.03	576.47
26 24 16 00-0048	EA		100 Amp Rating, 20 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,317.60 815.03	684.23
26 24 16 00-0049	EA		100 Amp Rating, 22 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,497.03 896.31 65.50	684.23
26 24 16 00-0050	EA		100 Amp Rating, 24 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,660.47 896.31 65.50	802.75
26 24 16 00-0051	EA		100 Amp Rating, 26 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,848.65 896.31 65.50	802.75
26 24 16 00-0052	EA		100 Amp Rating, 28 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,043.25 896.31 65.50	926.67
26 24 16 00-0053	EA		100 Amp Rating, 30 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,231.37 896.31 65.50	926.67
26 24 16 00-0054	EA		225 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,616.23 1,058.76 111.86	1,120.62
26 24 16 00-0055	EA		225 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,750.39 1,058.76 111.86	1,120.62
26 24 16 00-0056	EA		225 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,968.20 1,058.76 111.86	1,244.53
26 24 16 00-0057	EA		225 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,170.44 1,058.76 111.86	1,244.53
26 24 16 00-0058	EA		225 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,309.45 1,101.95 142.96	1,357.68
26 24 16 00-0059	EA		225 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,516.22 1,101.95 142.96	1,357.68
26 24 16 00-0060	EA		400 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,334.49 1,058.76 111.86	1,204.66



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0061 EA 400 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,482.33 1,058.76 111.86	1,266.09
26 24 16 00-0062 EA 400 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,710.77 1,058.76 111.86	1,333.44
26 24 16 00-0063 EA 400 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,929.52 1,058.76 111.86	1,411.55
26 24 16 00-0064 EA 400 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,078.23 1,101.95 142.96	1,454.65
26 24 16 00-0065 EA 400 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,324.77 1,101.95 142.96	1,543.55
<b>26 24 16 00-0066 120/208 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards <small>(26 24 16 00-0062)</small></b>		
26 24 16 00-0067 EA 50 Amp Rating, 8 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,479.33 815.03	339.41
26 24 16 00-0068 EA 50 Amp Rating, 10 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,641.73 815.03	339.41
26 24 16 00-0069 EA 50 Amp Rating, 12 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,832.30 815.03	447.17
26 24 16 00-0070 EA 50 Amp Rating, 14 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,087.42 815.03	447.17
26 24 16 00-0071 EA 100 Amp Rating 16 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,497.09 815.03	673.45
26 24 16 00-0072 EA 100 Amp Rating, 18 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,662.33 815.03	673.45
26 24 16 00-0073 EA 100 Amp Rating, 20 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,842.79 815.03	786.59
26 24 16 00-0074 EA 100 Amp Rating, 22 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,995.20 896.31 65.50	786.59
26 24 16 00-0075 EA 100 Amp Rating, 24 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,196.73 896.31 65.50	910.51
26 24 16 00-0076 EA 100 Amp Rating, 26 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,338.55 896.31 65.50	910.51
26 24 16 00-0077 EA 100 Amp Rating, 28 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,558.60 896.31 65.50	1,023.64
26 24 16 00-0078 EA 100 Amp Rating, 30 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,744.76 896.31 65.50	1,023.64
26 24 16 00-0079 EA 225 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,385.34 1,058.76 111.86	1,185.27
26 24 16 00-0080 EA 225 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,584.20 1,058.76 111.86	1,249.92
26 24 16 00-0081 EA 225 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,671.56 1,058.76 111.86	1,249.92
26 24 16 00-0082 EA 225 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,896.22 1,058.76 111.86	1,411.55
26 24 16 00-0083 EA 225 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,048.82 1,101.95 142.96	1,411.55

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0084	EA		225 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,155.44 1,101.95 142.96	1,411.55
26 24 16 00-0085	EA		400 Amp Rating, 32 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,126.25 1,058.76 111.86	1,298.42
26 24 16 00-0086	EA		400 Amp Rating, 34 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,344.95 1,058.76 111.86	1,373.83
26 24 16 00-0087	EA		400 Amp Rating, 36 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,435.56 1,058.76 111.86	1,411.55
26 24 16 00-0088	EA		400 Amp Rating, 38 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,678.85 1,058.76 111.86	1,497.75
26 24 16 00-0089	EA		400 Amp Rating, 40 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,830.86 1,101.95 142.96	1,540.85
26 24 16 00-0090	EA		400 Amp Rating, 42 - 20 Amp Breakers, 120/208 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,979.12 1,101.95 142.96	1,594.73
<b>26 24 16 00-0091</b>			<b>480 Volt, 3 Wire, 3 Phase, Main Lugs Assembled Panelboards <small>(26 24 16 00-0002)</small></b>		
26 24 16 00-0092	EA		100 Amp Rating, 8 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,410.97 815.03	344.80
26 24 16 00-0093	EA		100 Amp Rating, 10 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,620.02 815.03	344.80
26 24 16 00-0094	EA		100 Amp Rating, 12 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,819.84 815.03	474.11
26 24 16 00-0095	EA		100 Amp Rating, 14 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,028.87 815.03	474.11
26 24 16 00-0096	EA		100 Amp Rating, 16 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,222.81 815.03	592.64
26 24 16 00-0097	EA		100 Amp Rating, 18 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,427.97 815.03	592.64
26 24 16 00-0098	EA		100 Amp Rating, 20 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,642.73 815.03	716.55
26 24 16 00-0099	EA		100 Amp Rating, 22 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	2,838.29 896.31 65.50	716.55
26 24 16 00-0100	EA		100 Amp Rating, 24 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,054.78 896.31 65.50	851.25
26 24 16 00-0101	EA		100 Amp Rating, 26 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,263.27 896.31 65.50	851.25
26 24 16 00-0102	EA		100 Amp Rating, 28 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,453.75 896.31 65.50	969.77
26 24 16 00-0103	EA		100 Amp Rating, 30 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,658.91 896.31 65.50	969.77
26 24 16 00-0104	EA		225 Amp Rating, 32 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,103.94 1,058.76 111.86	1,179.88
26 24 16 00-0105	EA		225 Amp Rating, 34 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,308.85 1,058.76 111.86	1,179.88
26 24 16 00-0106	EA		225 Amp Rating, 36 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,527.97 1,058.76 111.86	1,293.03



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0107 EA 225 Amp Rating, 38 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,683.86 1,058.76 111.86	1,293.03
26 24 16 00-0108 EA 225 Amp Rating, 40 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,929.37 1,101.95 142.96	1,427.72
26 24 16 00-0109 EA 225 Amp Rating, 42 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,100.33 1,101.95 142.96	1,427.72
<b>26 24 16 00-0110 480 Volt, 3 Wire, 3 Phase, Main Breaker Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		
26 24 16 00-0111 EA 50 Amp Rating, 8 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,785.12 815.03	366.36
26 24 16 00-0112 EA 50 Amp Rating, 10 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	1,989.06 815.03	398.69
26 24 16 00-0113 EA 50 Amp Rating, 12 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,195.43 815.03	495.66
26 24 16 00-0114 EA 100 Amp Rating, 14 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,644.03 815.03	603.41
26 24 16 00-0115 EA 100 Amp Rating, 16 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	2,842.86 815.03	668.06
26 24 16 00-0116 EA 100 Amp Rating, 18 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	3,022.76 815.03	721.94
26 24 16 00-0117 EA 100 Amp Rating, 20 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i>	3,222.57 815.03	786.59
26 24 16 00-0118 EA 100 Amp Rating, 22 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,414.27 896.31 65.50	851.25
26 24 16 00-0119 EA 100 Amp Rating, 24 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,588.38 896.31 65.50	905.12
26 24 16 00-0120 EA 100 Amp Rating, 26 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,776.28 896.31 65.50	958.99
26 24 16 00-0121 EA 100 Amp Rating, 28 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	3,980.84 896.31 65.50	1,023.64
26 24 16 00-0122 EA 100 Amp Rating, 30 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	4,205.82 896.31 65.50	1,104.46
26 24 16 00-0123 EA 225 Amp Rating, 32 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,232.74 1,058.76 111.86	1,228.37
26 24 16 00-0124 EA 225 Amp Rating, 34 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,447.84 1,058.76 111.86	1,303.79
26 24 16 00-0125 EA 225 Amp Rating, 36 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,596.39 1,058.76 111.86	1,336.12
26 24 16 00-0126 EA 225 Amp Rating, 38 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	5,840.17 1,058.76 111.86	1,422.33
26 24 16 00-0127 EA 225 Amp Rating, 40 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,005.10 1,101.95 142.96	1,476.20
26 24 16 00-0128 EA 225 Amp Rating, 42 - 20 Amp Breakers, 480 Volt, 3 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity ..... <i>For NEMA 3R Panelboard, Add</i> <i>For Door-In-Door (Hinged) Trim Front, Add</i>	6,176.69 1,101.95 142.96	1,522.53
<b>26 24 16 00-0129 277/480 Volt, 4 Wire, 3 Phase, Main Lugs Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0130	EA		100 Amp Rating , 8 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 12 Circuit Capacity.....	1,702.93	377.13
			<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0131	EA		100 Amp Rating, 10 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	1,933.10	377.13
			<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0132	EA		100 Amp Rating, 12 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	2,156.71	501.04
			<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0133	EA		100 Amp Rating, 14 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	2,382.33	501.04
			<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0134	EA		100 Amp Rating, 16 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 20 Circuit Capacity.....	2,612.00	619.58
			<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0135	EA		100 Amp Rating, 18 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity.....	2,836.45	619.58
			<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0136	EA		100 Amp Rating, 20 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 24 Circuit Capacity.....	3,064.96	743.49
			<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0137	EA		100 Amp Rating, 22 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	3,292.41	743.49
			<i>For NEMA 3R Panelboard, Add</i>	896.31	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0138	EA		100 Amp Rating, 24 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	3,543.04	872.79
			<i>For NEMA 3R Panelboard, Add</i>	896.31	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0139	EA		100 Amp Rating, 26 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	3,749.28	872.79
			<i>For NEMA 3R Panelboard, Add</i>	896.31	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0140	EA		100 Amp Rating, 28 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	3,968.48	878.18
			<i>For NEMA 3R Panelboard, Add</i>	896.31	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0141	EA		100 Amp Rating, 30 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 30 Circuit Capacity.....	4,203.31	878.18
			<i>For NEMA 3R Panelboard, Add</i>	896.31	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0142	EA		225 Amp Rating, 32 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	4,795.07	1,217.60
			<i>For NEMA 3R Panelboard, Add</i>	1,058.76	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0143	EA		225 Amp Rating, 34 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	5,034.95	1,217.60
			<i>For NEMA 3R Panelboard, Add</i>	1,058.76	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0144	EA		225 Amp Rating, 36 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	5,214.83	1,282.25
			<i>For NEMA 3R Panelboard, Add</i>	1,058.76	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0145	EA		225 Amp Rating, 38 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 42 Circuit Capacity.....	5,478.91	1,368.45
			<i>For NEMA 3R Panelboard, Add</i>	1,058.76	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0146	EA		225 Amp Rating, 40 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	5,672.53	1,368.45
			<i>For NEMA 3R Panelboard, Add</i>	1,101.95	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
26 24 16 00-0147	EA		225 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Main Lugs, 54 Circuit Capacity.....	5,968.20	1,497.75
			<i>For NEMA 3R Panelboard, Add</i>	1,101.95	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
<b>26 24 16 00-0148</b>			<b>277/480 Volt, 4 Wire, 3 Phase, Main Breaker Assembled Panelboards</b> <small>(26 24 16 00-0002)</small>		
26 24 16 00-0149	EA		50 Amp Rating, 8 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 12 Circuit Capacity.....	2,203.05	463.34
			<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0150	EA		50 Amp Rating, 10 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity.....	2,439.21	463.34
			<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0151	EA		50 Amp Rating, 12 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, Up To 50 Amp Main Breaker, 20 Circuit Capacity.....	2,665.60	614.19
			<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0152	EA		100 Amp Rating, 14 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	3,178.37	614.19
			<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0153	EA		100 Amp Rating, 16 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 20 Circuit Capacity.....	3,399.09	775.82
			<i>For NEMA 3R Panelboard, Add</i>	815.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0154 EA 100 Amp Rating, 18 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity .....	3,619.41	775.82
<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0155 EA 100 Amp Rating, 20 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 24 Circuit Capacity .....	3,831.63	888.95
<i>For NEMA 3R Panelboard, Add</i>	815.03	
26 24 16 00-0156 EA 100 Amp Rating, 22 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity .....	4,026.25	888.95
<i>For NEMA 3R Panelboard, Add</i>	896.31	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0157 EA 100 Amp Rating, 24 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity .....	4,234.66	1,012.87
<i>For NEMA 3R Panelboard, Add</i>	896.31	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0158 EA 100 Amp Rating, 26 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity .....	4,459.72	1,012.87
<i>For NEMA 3R Panelboard, Add</i>	896.31	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0159 EA 100 Amp Rating, 28 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity .....	4,650.49	1,120.62
<i>For NEMA 3R Panelboard, Add</i>	896.31	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0160 EA 100 Amp Rating, 30 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >50 To 100 Amp Main Breaker, 30 Circuit Capacity .....	4,851.69	1,120.62
<i>For NEMA 3R Panelboard, Add</i>	896.31	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0161 EA 225 Amp Rating, 32 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity .....	6,262.48	1,325.35
<i>For NEMA 3R Panelboard, Add</i>	1,058.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0162 EA 225 Amp Rating, 34 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity .....	6,510.26	1,325.35
<i>For NEMA 3R Panelboard, Add</i>	1,058.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0163 EA 225 Amp Rating, 36 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity .....	6,687.60	1,449.26
<i>For NEMA 3R Panelboard, Add</i>	1,058.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0164 EA 225 Amp Rating, 38 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 42 Circuit Capacity .....	6,966.99	1,449.26
<i>For NEMA 3R Panelboard, Add</i>	1,058.76	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0165 EA 225 Amp Rating, 40 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity .....	7,162.51	1,583.96
<i>For NEMA 3R Panelboard, Add</i>	1,101.95	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
26 24 16 00-0166 EA 225 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >100 To 225 Amp Main Breaker, 54 Circuit Capacity .....	7,365.40	1,583.96
<i>For NEMA 3R Panelboard, Add</i>	1,101.95	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
26 24 16 00-0167 EA 400 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >225 To 400 Amp Main Breaker, 54 Circuit Capacity .....	8,691.96	1,763.90
<i>For NEMA 3R Panelboard, Add</i>	1,101.95	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
26 24 16 00-0168 EA 600 Amp Rating, 42 - 20 Amp Breakers, 277/480 Volt, 4 Wire, 3 Phase Assembled Panelboard, >400 To 600 Amp Main Breaker, 54 Circuit Capacity .....	10,569.86	2,117.32
<i>For NEMA 3R Panelboard, Add</i>	1,101.95	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
<b>26 24 16 00-0169 Unassembled Lighting And Power Panelboards</b> <small>(26 24 16 00-0001)</small>		
<small>Note: Listed panelboards include the main device (lugs or breaker), connection of main service cable from meter and that portion of the panel box, trim and interior occupied by that device. Spaces include that portion of the panel box, trim and interior reserved by that space. The maximum single pole capacity of the panelboard main device (lugs, breakers) is indicated. Excludes branch breakers. A complete panelboard will be the sum of main device and the branch circuit breakers and spaces (within the capacity of the main device).</small>		
<b>26 24 16 00-0170 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small>		
<small>Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers.</small>		
<b>26 24 16 00-0171 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0170)</small>		
26 24 16 00-0172 EA 100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	528.41	
26 24 16 00-0173 EA 100 Amp Rating, 20 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	610.00	
26 24 16 00-0174 EA 225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	839.44	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0175 EA 225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	970.71	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0176 EA 225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,100.14	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 24</b>	<b>Switchboards And Panelboards</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0177 EA 400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,234.33	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0178 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,341.68	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0179 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,471.12	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
26 24 16 00-0180 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,632.13	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0181 EA 600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,740.11	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0182 EA 600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,905.51	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
<b>26 24 16 00-0183 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small></b>		
26 24 16 00-0184 EA 100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	788.60	
26 24 16 00-0185 EA 100 Amp Rating, 20 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	896.86	
26 24 16 00-0186 EA 225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,443.75	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0187 EA 225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,607.07	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0188 EA 225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,762.26	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
26 24 16 00-0189 EA 400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	3,005.09	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0190 EA 400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	3,196.85	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0191 EA 400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	3,367.77	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
<b>26 24 16 00-0192 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small></b>		
26 24 16 00-0193 EA 100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,045.81	
26 24 16 00-0194 EA 100 Amp Rating, 20 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,121.49	
26 24 16 00-0195 EA 225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,338.61	
26 24 16 00-0196 EA 225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,467.41	
26 24 16 00-0197 EA 225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,587.48	
26 24 16 00-0198 EA 400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,817.27	
26 24 16 00-0199 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,918.21	
26 24 16 00-0200 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	2,041.74	
26 24 16 00-0201 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	2,248.09	
26 24 16 00-0202 EA 600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	2,352.23	
26 24 16 00-0203 EA 600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	2,508.38	
<b>26 24 16 00-0204 Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboards <small>(26 24 16 00-0170)</small></b>		
26 24 16 00-0205 EA 100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,300.09	
26 24 16 00-0206 EA 100 Amp Rating, 20 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	1,401.94	
26 24 16 00-0207 EA 225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	2,038.52	
26 24 16 00-0208 EA 225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	2,190.00	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0209 EA 225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	2,336.33	
26 24 16 00-0210 EA 400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	3,566.83	
26 24 16 00-0211 EA 400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	3,752.68	
26 24 16 00-0212 EA 400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 3 Wire, 1 Phase Unassembled Panelboard .....	3,922.13	
<b>26 24 16 00-0213 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small>		
<i>Note: As manufactured by Square D or equal. Accepts plug-on and bolt-on breakers</i>		
<b>26 24 16 00-0214 Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>		
26 24 16 00-0215 EA 100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	597.20	
26 24 16 00-0216 EA 100 Amp Rating, 24 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	703.88	
26 24 16 00-0217 EA 100 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	795.35	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0218 EA 225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	906.78	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0219 EA 225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	1,044.83	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0220 EA 225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	1,158.64	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
26 24 16 00-0221 EA 400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	1,336.97	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0222 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	1,442.58	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0223 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	1,560.15	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
26 24 16 00-0224 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	1,745.61	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0225 EA 600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	1,922.88	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0226 EA 600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	2,264.11	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
<b>26 24 16 00-0227 Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>		
26 24 16 00-0228 EA 100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	922.97	
26 24 16 00-0229 EA 100 Amp Rating, 24 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	1,042.12	
26 24 16 00-0230 EA 100 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	1,209.04	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0231 EA 225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	1,777.25	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0232 EA 225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	1,926.44	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0233 EA 225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	2,070.56	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
26 24 16 00-0234 EA 400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	2,846.81	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0235 EA 400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	3,026.86	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0236 EA 400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard .....	3,175.46	
<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
<b>26 24 16 00-0237 Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>		

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0238	EA	100 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,114.60	
26 24 16 00-0239	EA	100 Amp Rating, 24 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,215.36	
26 24 16 00-0240	EA	100 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,300.43	
26 24 16 00-0241	EA	225 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,405.95	
26 24 16 00-0242	EA	225 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,541.54	
26 24 16 00-0243	EA	225 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,645.98	
26 24 16 00-0244	EA	400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,919.90	
26 24 16 00-0245	EA	400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,019.11	
26 24 16 00-0246	EA	400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,130.77	
26 24 16 00-0247	EA	600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,361.56	
26 24 16 00-0248	EA	600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,527.50	
26 24 16 00-0249	EA	600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,868.73	
<b>26 24 16 00-0250</b>		<b>Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboards</b> <small>(26 24 16 00-0213)</small>		
26 24 16 00-0251	EA	100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,434.46	
26 24 16 00-0252	EA	100 Amp Rating, 24 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,547.20	
26 24 16 00-0253	EA	100 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	1,710.67	
26 24 16 00-0254	EA	225 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,372.02	
26 24 16 00-0255	EA	225 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,509.37	
26 24 16 00-0256	EA	225 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	2,644.63	
26 24 16 00-0257	EA	400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	3,925.17	
26 24 16 00-0258	EA	400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	4,110.34	
26 24 16 00-0259	EA	400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 240 Volt AC, 48 Volt DC, 4 Wire, 3 Phase Unassembled Panelboard	4,267.62	
<b>26 24 16 00-0260</b>		<b>480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small> Note: As manufactured by Square D or equal.		
<b>26 24 16 00-0261</b>		<b>Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>		
26 24 16 00-0262	EA	125 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	844.60	
26 24 16 00-0263	EA	125 Amp Rating, 18 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	930.59	
26 24 16 00-0264	EA	250 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,291.09	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0265	EA	250 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,442.54	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0266	EA	250 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,573.85	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
26 24 16 00-0267	EA	400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,581.82	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0268	EA	400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,670.72	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0269	EA	400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,817.21	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	
26 24 16 00-0270	EA	600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	1,954.58	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	65.50	
26 24 16 00-0271	EA	600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,095.54	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	111.86	
26 24 16 00-0272	EA	600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard	2,291.09	
		<i>For Door-In-Door (Hinged) Trim Front, Add</i>	142.96	



<b>Electrical</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>
<b>Switchboards And Panelboards</b>	<b>26 24</b>

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 16 00-0273 Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>		
26 24 16 00-0274 EA 100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,710.91	
26 24 16 00-0275 EA 100 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,764.74	
26 24 16 00-0276 EA 125 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,917.30	
26 24 16 00-0277 EA 125 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,024.43	
For Door-In-Door (Hinged) Trim Front, Add	65.50	
26 24 16 00-0278 EA 125 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,245.87	
For Door-In-Door (Hinged) Trim Front, Add	111.86	
26 24 16 00-0279 EA 250 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,916.72	
For Door-In-Door (Hinged) Trim Front, Add	65.50	
26 24 16 00-0280 EA 250 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,050.68	
For Door-In-Door (Hinged) Trim Front, Add	111.86	
26 24 16 00-0281 EA 250 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,225.23	
For Door-In-Door (Hinged) Trim Front, Add	142.96	
26 24 16 00-0282 EA 400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,348.06	
For Door-In-Door (Hinged) Trim Front, Add	65.50	
26 24 16 00-0283 EA 400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,538.92	
For Door-In-Door (Hinged) Trim Front, Add	111.86	
26 24 16 00-0284 EA 400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 1, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,709.52	
For Door-In-Door (Hinged) Trim Front, Add	142.96	
<b>26 24 16 00-0285 Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>		
26 24 16 00-0286 EA 125 Amp Rating, 12 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,344.26	
26 24 16 00-0287 EA 125 Amp Rating, 18 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,430.25	
26 24 16 00-0288 EA 250 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	1,778.93	
26 24 16 00-0289 EA 250 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,016.12	
26 24 16 00-0290 EA 250 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,137.56	
26 24 16 00-0291 EA 400 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,145.54	
26 24 16 00-0292 EA 400 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,219.66	
26 24 16 00-0293 EA 400 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,344.96	
26 24 16 00-0294 EA 600 Amp Rating, 30 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,531.61	
26 24 16 00-0295 EA 600 Amp Rating, 42 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,660.55	
26 24 16 00-0296 EA 600 Amp Rating, 54 Circuit Capacity, Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,830.29	
<b>26 24 16 00-0297 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0260)</small>		
26 24 16 00-0298 EA 100 Amp Rating, 12 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,317.01	
26 24 16 00-0299 EA 100 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,370.84	
26 24 16 00-0300 EA 125 Amp Rating, 18 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,409.57	
26 24 16 00-0301 EA 125 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,512.26	
26 24 16 00-0302 EA 125 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	2,819.45	
26 24 16 00-0303 EA 250 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,480.44	
26 24 16 00-0304 EA 250 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,599.61	
26 24 16 00-0305 EA 250 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,752.98	
26 24 16 00-0306 EA 400 Amp Rating, 30 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard.....	3,875.80	

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 24</b>	<b>Switchboards And Panelboards</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0307	EA		400 Amp Rating, 42 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....	4,053.18	
26 24 16 00-0308	EA		400 Amp Rating, 54 Circuit Capacity, Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 3 Wire, 1 Phase, Unassembled Panelboard .....	4,221.79	
<b>26 24 16 00-0309</b>			<b>480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small> Note: As manufactured by Square D or equal.		
<b>26 24 16 00-0310</b>			<b>Main Lugs, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0309)</small>		
26 24 16 00-0311	EA		125 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled .....	878.11	
26 24 16 00-0312	EA		125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled .....	964.59	
26 24 16 00-0313	EA		125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled .....	1,118.11	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	65.50	
26 24 16 00-0314	EA		250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled .....	1,340.41	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	65.50	
26 24 16 00-0315	EA		250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled .....	1,492.95	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	111.86	
26 24 16 00-0316	EA		250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled .....	1,623.31	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	142.96	
26 24 16 00-0317	EA		400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled .....	1,646.91	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	65.50	
26 24 16 00-0318	EA		400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled .....	1,751.54	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	111.86	
26 24 16 00-0319	EA		400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled .....	1,896.87	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	142.96	
26 24 16 00-0320	EA		600 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled .....	2,034.37	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	65.50	
26 24 16 00-0321	EA		600 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled .....	2,176.16	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	111.86	
26 24 16 00-0322	EA		600 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Lugs, Unassembled .....	2,372.52	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	142.96	
<b>26 24 16 00-0323</b>			<b>Main Breaker, NEMA 1, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0309)</small>		
26 24 16 00-0324	EA		100 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled .....	1,883.38	
26 24 16 00-0325	EA		100 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled .....	1,937.70	
26 24 16 00-0326	EA		100 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled .....	2,101.17	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	65.50	
26 24 16 00-0327	EA		125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled .....	2,154.39	
26 24 16 00-0328	EA		125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled .....	2,261.91	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	65.50	
26 24 16 00-0329	EA		125 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled .....	2,482.83	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	111.86	
26 24 16 00-0330	EA		250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled .....	3,194.74	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	65.50	
26 24 16 00-0331	EA		250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled .....	3,330.31	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	111.86	
26 24 16 00-0332	EA		250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled .....	3,503.02	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	142.96	
26 24 16 00-0333	EA		400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled .....	3,681.21	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	65.50	
26 24 16 00-0334	EA		400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled .....	3,873.82	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	111.86	
26 24 16 00-0335	EA		400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 1 Panelboard, Main Breaker, Unassembled .....	4,044.40	
			<i>For Door-In-Door (Hinged) Trim Front, Add</i> .....	142.96	
<b>26 24 16 00-0336</b>			<b>Main Lugs, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0309)</small>		
26 24 16 00-0337	EA		125 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled .....	1,377.77	
26 24 16 00-0338	EA		125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled .....	1,464.25	
26 24 16 00-0339	EA		125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled .....	1,610.38	
26 24 16 00-0340	EA		250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled .....	1,828.25	
26 24 16 00-0341	EA		250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled .....	2,066.53	
26 24 16 00-0342	EA		250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled .....	2,187.03	
26 24 16 00-0343	EA		400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled .....	2,212.11	
26 24 16 00-0344	EA		400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled .....	2,300.47	
26 24 16 00-0345	EA		400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled .....	2,424.62	
26 24 16 00-0346	EA		600 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled .....	2,611.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0347 EA 600 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,740.87	
26 24 16 00-0348 EA 600 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Lugs, Unassembled.....	2,910.61	
<b>26 24 16 00-0349 Main Breaker, NEMA 3R, 5, Or 12, 480Y/277 Volt AC, 4 Wire, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0309)</small>		
26 24 16 00-0350 EA 100 Amp, 12 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,371.21	
26 24 16 00-0351 EA 100 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,425.54	
26 24 16 00-0352 EA 100 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,674.74	
26 24 16 00-0353 EA 125 Amp, 18 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,646.65	
26 24 16 00-0354 EA 125 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	2,749.74	
26 24 16 00-0355 EA 125 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,056.41	
26 24 16 00-0356 EA 250 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,758.46	
26 24 16 00-0357 EA 250 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	3,879.25	
26 24 16 00-0358 EA 250 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,030.77	
26 24 16 00-0359 EA 400 Amp, 30 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,208.95	
26 24 16 00-0360 EA 400 Amp, 42 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,387.77	
26 24 16 00-0361 EA 400 Amp, 54 Circuit Capacity, 277/480 Volt, 4 Wire, 3 Phase, NEMA 3R, 5, 12 Panelboard, Main Breaker, Unassembled.....	4,555.88	
<b>26 24 16 00-0362 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0169)</small> Note: Square D I-Line or equal.		
<b>26 24 16 00-0363 Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards</b> <small>(26 24 16 00-0362)</small>		
26 24 16 00-0364 EA 400 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,563.04	320.64
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>192.39</i>	
26 24 16 00-0365 EA 400 Amp Rating, 45" Breaker Mounted Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,810.01	320.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>192.34</i>	
26 24 16 00-0366 EA 400 Amp Rating, 63" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	1,996.01	320.54
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>192.34</i>	
26 24 16 00-0367 EA 600 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,336.39	526.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>315.86</i>	
26 24 16 00-0368 EA 600 Amp Rating, 45" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,480.35	526.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>315.86</i>	
26 24 16 00-0369 EA 600 Amp Rating, 63" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,638.32	526.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>315.86</i>	
26 24 16 00-0370 EA 800 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	2,899.01	699.79
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>419.86</i>	
26 24 16 00-0371 EA 800 Amp Rating, 45" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,038.32	701.87
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>421.14</i>	
26 24 16 00-0372 EA 800 Amp Rating, 63" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,093.93	699.79
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>419.86</i>	
26 24 16 00-0373 EA 800 Amp Rating, 99" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	3,550.65	699.79
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>419.86</i>	
26 24 16 00-0374 EA 1,200 Amp Rating, 27" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,679.80	1,052.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>631.71</i>	
26 24 16 00-0375 EA 1,200 Amp Rating, 45" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	4,990.65	1,052.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>631.71</i>	
26 24 16 00-0376 EA 1,200 Amp Rating, 63" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,244.81	1,052.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>631.71</i>	
26 24 16 00-0377 EA 1,200 Amp Rating, 99" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Lugs, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard.....	5,555.02	1,052.85
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>631.71</i>	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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**26 24 16 00-0378 Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboards** (26 24 16 00-0362)

26 24 16 00-0379	EA		225 Amp Rating, 36" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard .....	2,912.34	327.44
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	196.45	
26 24 16 00-0380	EA		400 Amp Rating, 27" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard .....	3,801.63	371.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.84	
26 24 16 00-0381	EA		400 Amp Rating, 45" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard .....	3,981.26	371.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.84	
26 24 16 00-0382	EA		400 Amp Rating, 81" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard .....	4,509.96	371.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	222.84	
26 24 16 00-0383	EA		600 Amp Rating, 36" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard .....	5,928.19	608.77
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	365.29	
26 24 16 00-0384	EA		600 Amp Rating, 72" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard .....	6,225.71	610.45
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	366.26	
26 24 16 00-0385	EA		600 Amp Rating, 72" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard .....	6,469.63	608.77
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	365.29	
26 24 16 00-0386	EA		800 Amp Rating, 36" Breaker Mounting Space, 250 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard .....	7,511.72	813.87
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	488.35	
26 24 16 00-0387	EA		800 Amp Rating, 72" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard .....	7,862.05	811.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	486.62	
26 24 16 00-0388	EA		800 Amp Rating, 72" Breaker Mounting Space, 600 Amp Maximum Branch Breaker Size, Main Breaker, NEMA 1, 600 Volt AC, 250 Volt DC, 3 Phase, Unassembled Panelboard .....	8,212.39	811.01
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	486.62	

**26 24 16 00-0389 Branch Circuit Breakers** (26 24 16 00-0001)

Note: For installation in existing and new panelboards. Use task modifier for installation in new panelboards.

**26 24 16 00-0390 Branch Circuit Breakers 10,000 Amp Interrupting Capacity, Plug-On** (26 24 16 00-0389)

Note: Includes connection of electrical wire.

26 24 16 00-0391	EA		1 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity .....	49.03	19.39
			<i>For Bolt-On, Add</i>	13.67	
			<i>For Installation In New Panelboard, Deduct</i>	-10.78	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.93	
26 24 16 00-0392	EA		1 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity .....	49.03	19.39
			<i>For Bolt-On, Add</i>	13.67	
			<i>For Installation In New Panelboard, Deduct</i>	-10.78	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.93	
26 24 16 00-0393	EA		1 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity .....	67.56	24.24
			<i>For Bolt-On, Add</i>	17.87	
			<i>For Installation In New Panelboard, Deduct</i>	-13.47	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.16	
26 24 16 00-0394	EA		1 Pole GFI, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity .....	88.94	23.70
			<i>For Bolt-On, Add</i>	20.17	
			<i>For Installation In New Panelboard, Deduct</i>	-12.93	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.52	
26 24 16 00-0395	EA		1 Pole GFI, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Protection Circuit Breaker, 10,000 Amp Interrupting Capacity .....	115.85	23.70
			<i>For Bolt-On, Add</i>	23.53	
			<i>For Installation In New Panelboard, Deduct</i>	-12.93	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.52	
26 24 16 00-0396	EA		1 Pole GFI, 120/240 Volt, 15-30 Amp, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amp Interrupting Capacity .....	131.20	23.70
			<i>For Bolt-On, Add</i>	25.45	
			<i>For Installation In New Panelboard, Deduct</i>	-12.93	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.52	
26 24 16 00-0397	EA		1 Pole GFI, 120/240 Volt, 15-20 Amp, "Arc Fault" Circuit Breaker, 10,000 Amp Interrupting Capacity .....	74.12	23.70
			<i>For Bolt-On, Add</i>	18.32	
			<i>For Installation In New Panelboard, Deduct</i>	-12.93	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.52	
26 24 16 00-0398	EA		2 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity .....	78.34	29.09
			<i>For Bolt-On, Add</i>	21.11	
			<i>For Installation In New Panelboard, Deduct</i>	-16.16	
			Note: Also for use with new interiors in panelboards.		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.40	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0399 EA 2 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	78.34	29.09
For Bolt-On, Add	21.11	
For Installation In New Panelboard, Deduct	-16.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.40	
26 24 16 00-0400 EA 2 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	113.58	38.79
For Bolt-On, Add	29.28	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0401 EA 2 Pole, 120/240 Volt, 110-125 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	173.93	48.48
For Bolt-On, Add	40.60	
For Installation In New Panelboard, Deduct	-26.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.33	
26 24 16 00-0402 EA 2 Pole, 120/240 Volt, 150 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	201.57	53.87
For Bolt-On, Add	45.94	
For Installation In New Panelboard, Deduct	-29.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.56	
26 24 16 00-0403 EA 2 Pole GFI, 120/240 Volt, 15-50 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	161.64	34.48
For Bolt-On, Add	33.78	
For Installation In New Panelboard, Deduct	-19.40	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.27	
26 24 16 00-0404 EA 2 Pole, GFI, 120/240 Volt, 15-50 Amp, UL Listed 30mA Equipment Protection Circuit Breaker, 10,000 Amp Interrupting Capacity .....	205.66	34.48
For Bolt-On, Add	39.28	
For Installation In New Panelboard, Deduct	-19.40	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	23.27	
26 24 16 00-0405 EA 3 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	134.11	38.79
For Bolt-On, Add	31.85	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0406 EA 3 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	134.11	38.79
For Bolt-On, Add	31.85	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0407 EA 3 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	173.67	48.48
For Bolt-On, Add	40.57	
For Installation In New Panelboard, Deduct	-26.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.33	
26 24 16 00-0408 EA 3 Pole, 120/240 Volt, 110-125 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	249.04	58.19
For Bolt-On, Add	53.76	
For Installation In New Panelboard, Deduct	-32.33	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.79	
26 24 16 00-0409 EA 3 Pole, 120/240 Volt, 150 Amp, Branch Circuit Breaker, 10,000 Amp Interrupting Capacity.....	312.01	67.89
For Bolt-On, Add	65.40	
For Installation In New Panelboard, Deduct	-37.71	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.26	
<b>26 24 16 00-0410 Branch Circuit Breakers 14,000 Amp Interrupting Capacity, Plug-On</b> <small>(26 24 16 00-0389)</small>		
Note: Includes connection of electrical wire.		
26 24 16 00-0411 EA 1 Pole, 277/480 Volt, 15-30 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	62.98	19.39
For Bolt-On, Add	15.42	
For Installation In New Panelboard, Deduct	-10.78	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 24 16 00-0412 EA 1 Pole, 277/480 Volt, 35-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	62.98	19.39
For Bolt-On, Add	15.42	
For Installation In New Panelboard, Deduct	-10.78	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 24 16 00-0413 EA 1 Pole, 277/480 Volt, 70-100 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	103.20	24.24
For Bolt-On, Add	22.33	
For Installation In New Panelboard, Deduct	-13.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.16	
26 24 16 00-0414 EA 1 Pole GFI, 277/480 Volt, 15-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	146.30	23.70
For Bolt-On, Add	27.34	
For Installation In New Panelboard, Deduct	-12.93	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	15.52	
26 24 16 00-0415 EA 2 Pole, 277/480 Volt, 15-30 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity.....	115.05	29.09
For Bolt-On, Add	25.70	
For Installation In New Panelboard, Deduct	-16.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.40	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0416 EA 2 Pole, 277/480 Volt, 35-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity .....	115.05	29.09
For Bolt-On, Add	25.70	
For Installation In New Panelboard, Deduct	-16.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.40	
26 24 16 00-0417 EA 2 Pole, 277/480 Volt, 70-100 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity .....	210.03	38.79
For Bolt-On, Add	41.34	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0418 EA 2 Pole, 277/480 Volt, 110-125 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity .....	282.25	48.48
For Bolt-On, Add	54.14	
For Installation In New Panelboard, Deduct	-26.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.33	
26 24 16 00-0419 EA 2 Pole, 277/480 Volt, 150 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity .....	398.72	53.87
For Bolt-On, Add	70.58	
For Installation In New Panelboard, Deduct	-29.63	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	35.56	
26 24 16 00-0420 EA 3 Pole, 277/480 Volt, 15-30 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity .....	176.70	38.79
For Bolt-On, Add	37.17	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0421 EA 3 Pole, 277/480 Volt, 35-60 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity .....	176.70	38.79
For Bolt-On, Add	37.17	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0422 EA 3 Pole, 277/480 Volt, 70-100 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity .....	255.76	48.48
For Bolt-On, Add	50.83	
For Installation In New Panelboard, Deduct	-26.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.33	
26 24 16 00-0423 EA 3 Pole, 277/480 Volt, 110-125 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity .....	354.20	58.19
For Bolt-On, Add	66.90	
For Installation In New Panelboard, Deduct	-32.33	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.79	
26 24 16 00-0424 EA 3 Pole, 277/480 Volt, 150 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity .....	528.59	67.89
For Bolt-On, Add	92.47	
For Installation In New Panelboard, Deduct	-37.71	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	45.26	
26 24 16 00-0425 EA 3 Pole, 277/480 Volt, 175 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity .....	604.99	72.74
For Bolt-On, Add	103.91	
For Installation In New Panelboard, Deduct	-40.41	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.49	
26 24 16 00-0426 EA 3 Pole, 277/480 Volt, 200 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity .....	649.46	77.58
For Bolt-On, Add	111.35	
For Installation In New Panelboard, Deduct	-43.10	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	51.72	
26 24 16 00-0427 EA 3 Pole, 277/480 Volt, 225 Amp, Branch Circuit Breaker, 14,000 Amp Interrupting Capacity .....	760.13	82.43
For Bolt-On, Add	127.07	
For Installation In New Panelboard, Deduct	-45.80	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	54.95	
<b>26 24 16 00-0428 Branch Circuit Breakers 18,000 Amp Interrupting Capacity, Plug-On <small>(26 24 16 00-0389)</small></b>		
Note: Includes connection of electrical wire.		
26 24 16 00-0429 EA 1 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity .....	72.14	19.39
For Bolt-On, Add	16.56	
For Installation In New Panelboard, Deduct	-10.78	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 24 16 00-0430 EA 1 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity .....	72.14	19.39
For Bolt-On, Add	16.56	
For Installation In New Panelboard, Deduct	-10.78	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 24 16 00-0431 EA 1 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity .....	112.26	24.24
For Bolt-On, Add	23.46	
For Installation In New Panelboard, Deduct	-13.47	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.16	
26 24 16 00-0432 EA 2 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity .....	138.93	29.09
For Bolt-On, Add	28.68	
For Installation In New Panelboard, Deduct	-16.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.40	





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0433	EA		2 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	138.93	29.09
			<i>For Bolt-On, Add</i>	28.68	
			<i>For Installation In New Panelboard, Deduct</i>	-16.16	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.40	
26 24 16 00-0434	EA		2 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	232.93	38.79
			<i>For Bolt-On, Add</i>	44.20	
			<i>For Installation In New Panelboard, Deduct</i>	-21.55	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86	
26 24 16 00-0435	EA		2 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	552.23	48.48
			<i>For Bolt-On, Add</i>	87.89	
			<i>For Installation In New Panelboard, Deduct</i>	-26.94	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.33	
26 24 16 00-0436	EA		3 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	216.12	38.79
			<i>For Bolt-On, Add</i>	42.10	
			<i>For Installation In New Panelboard, Deduct</i>	-21.55	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86	
26 24 16 00-0437	EA		3 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	216.12	38.79
			<i>For Bolt-On, Add</i>	42.10	
			<i>For Installation In New Panelboard, Deduct</i>	-21.55	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86	
26 24 16 00-0438	EA		3 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	284.45	48.48
			<i>For Bolt-On, Add</i>	54.41	
			<i>For Installation In New Panelboard, Deduct</i>	-26.94	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.33	
26 24 16 00-0439	EA		3 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 18,000 Amp Interrupting Capacity.....	681.98	58.19
			<i>For Bolt-On, Add</i>	107.88	
			<i>For Installation In New Panelboard, Deduct</i>	-32.33	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.79	
26 24 16 00-0440	<b>Branch Circuit Breakers 22,000 Amp Interrupting Capacity, Plug-On</b> <small>(26 24 16 00-0389)</small>				
			<i>Note: Includes connection of electrical wire.</i>		
26 24 16 00-0441	EA		1 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	79.92	19.39
			<i>For Bolt-On, Add</i>	17.53	
			<i>For Installation In New Panelboard, Deduct</i>	-10.78	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.93	
26 24 16 00-0442	EA		1 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	79.92	19.39
			<i>For Bolt-On, Add</i>	17.53	
			<i>For Installation In New Panelboard, Deduct</i>	-10.78	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.93	
26 24 16 00-0443	EA		1 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	95.42	24.24
			<i>For Bolt-On, Add</i>	21.35	
			<i>For Installation In New Panelboard, Deduct</i>	-13.47	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.16	
26 24 16 00-0444	EA		1 Pole GFI, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	145.26	23.70
			<i>For Bolt-On, Add</i>	27.21	
			<i>For Installation In New Panelboard, Deduct</i>	-12.93	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15.52	
26 24 16 00-0445	EA		2 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	159.23	29.09
			<i>For Bolt-On, Add</i>	31.22	
			<i>For Installation In New Panelboard, Deduct</i>	-16.16	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.40	
26 24 16 00-0446	EA		2 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	159.23	29.09
			<i>For Bolt-On, Add</i>	31.22	
			<i>For Installation In New Panelboard, Deduct</i>	-16.16	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.40	
26 24 16 00-0447	EA		2 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	196.15	38.79
			<i>For Bolt-On, Add</i>	39.60	
			<i>For Installation In New Panelboard, Deduct</i>	-21.55	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86	
26 24 16 00-0448	EA		2 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	276.32	48.48
			<i>For Bolt-On, Add</i>	53.40	
			<i>For Installation In New Panelboard, Deduct</i>	-26.94	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.33	
26 24 16 00-0449	EA		2 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity.....	349.23	53.87
			<i>For Bolt-On, Add</i>	64.39	
			<i>For Installation In New Panelboard, Deduct</i>	-29.63	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.56	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0450 EA 2 Pole, 240 Volt, 250 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity .....	432.95	63.04
For Bolt-On, Add	78.63	
For Installation In New Panelboard, Deduct	-35.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.02	
26 24 16 00-0451 EA 2 Pole, 240 Volt, 300-400 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity .....	471.22	72.74
For Bolt-On, Add	87.19	
For Installation In New Panelboard, Deduct	-40.41	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.49	
26 24 16 00-0452 EA 3 Pole, 120/240 Volt, 15-30 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity .....	196.49	38.79
For Bolt-On, Add	39.65	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0453 EA 3 Pole, 120/240 Volt, 35-60 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity .....	196.49	38.79
For Bolt-On, Add	39.65	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0454 EA 3 Pole, 120/240 Volt, 70-100 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity .....	233.08	48.48
For Bolt-On, Add	47.99	
For Installation In New Panelboard, Deduct	-26.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.33	
26 24 16 00-0455 EA 3 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity .....	340.76	58.19
For Bolt-On, Add	65.22	
For Installation In New Panelboard, Deduct	-32.33	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.79	
26 24 16 00-0456 EA 3 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity .....	446.20	75.43
For Bolt-On, Add	85.00	
For Installation In New Panelboard, Deduct	-41.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.11	
26 24 16 00-0457 EA 3 Pole, 240 Volt, 250 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity .....	546.44	87.28
For Bolt-On, Add	102.25	
For Installation In New Panelboard, Deduct	-48.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.19	
26 24 16 00-0458 EA 3 Pole, 240 Volt, 300-400 Amp, Branch Circuit Breaker, 22,000 Amp Interrupting Capacity .....	580.52	92.67
For Bolt-On, Add	108.39	
For Installation In New Panelboard, Deduct	-51.18	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.42	
<b>26 24 16 00-0459 Branch Circuit Breakers 25,000 Amp Interrupting Capacity, Plug-On <small>(26 24 16 00-0389)</small></b>		
Note: Includes connection of electrical wire.		
26 24 16 00-0460 EA 2 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity .....	164.30	29.09
For Bolt-On, Add	31.85	
For Installation In New Panelboard, Deduct	-16.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.40	
26 24 16 00-0461 EA 2 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity .....	164.30	29.09
For Bolt-On, Add	31.85	
For Installation In New Panelboard, Deduct	-16.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.40	
26 24 16 00-0462 EA 2 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity .....	245.18	38.79
For Bolt-On, Add	45.73	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0463 EA 2 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity .....	385.88	48.48
For Bolt-On, Add	67.09	
For Installation In New Panelboard, Deduct	-26.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.33	
26 24 16 00-0464 EA 2 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity .....	588.36	60.34
For Bolt-On, Add	97.12	
For Installation In New Panelboard, Deduct	-33.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.41	
26 24 16 00-0465 EA 2 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity .....	662.08	63.04
For Bolt-On, Add	107.27	
For Installation In New Panelboard, Deduct	-35.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.02	
26 24 16 00-0466 EA 2 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity .....	726.73	72.74
For Bolt-On, Add	119.13	
For Installation In New Panelboard, Deduct	-40.41	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0467 EA 3 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	233.54	38.79
For Bolt-On, Add	44.28	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0468 EA 3 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	233.54	38.79
For Bolt-On, Add	44.28	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0469 EA 3 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	293.88	48.48
For Bolt-On, Add	55.59	
For Installation In New Panelboard, Deduct	-26.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.33	
26 24 16 00-0470 EA 3 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	478.21	58.19
For Bolt-On, Add	82.40	
For Installation In New Panelboard, Deduct	-32.33	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.79	
26 24 16 00-0471 EA 3 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	690.48	75.43
For Bolt-On, Add	115.54	
For Installation In New Panelboard, Deduct	-41.76	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	50.11	
26 24 16 00-0472 EA 3 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	814.33	87.28
For Bolt-On, Add	135.73	
For Installation In New Panelboard, Deduct	-48.49	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	58.19	
26 24 16 00-0473 EA 3 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 25,000 Amp Interrupting Capacity.....	879.07	92.67
For Bolt-On, Add	145.71	
For Installation In New Panelboard, Deduct	-51.18	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	61.42	
<b>26 24 16 00-0474 Branch Circuit Breakers 30,000 Amp Interrupting Capacity, Plug-On</b> <small>(26 24 16 00-0389)</small>		
Note: Includes connection of electrical wire.		
26 24 16 00-0475 EA 2 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	169.34	29.09
For Bolt-On, Add	32.48	
For Installation In New Panelboard, Deduct	-16.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.40	
26 24 16 00-0476 EA 2 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	169.34	29.09
For Bolt-On, Add	32.48	
For Installation In New Panelboard, Deduct	-16.16	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.40	
26 24 16 00-0477 EA 2 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	291.71	38.79
For Bolt-On, Add	51.55	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0478 EA 2 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	514.90	48.48
For Bolt-On, Add	83.22	
For Installation In New Panelboard, Deduct	-26.94	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.33	
26 24 16 00-0479 EA 2 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	801.62	60.34
For Bolt-On, Add	123.77	
For Installation In New Panelboard, Deduct	-33.67	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	40.41	
26 24 16 00-0480 EA 2 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	907.36	63.04
For Bolt-On, Add	137.93	
For Installation In New Panelboard, Deduct	-35.02	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	42.02	
26 24 16 00-0481 EA 2 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	991.41	72.74
For Bolt-On, Add	152.21	
For Installation In New Panelboard, Deduct	-40.41	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	48.49	
26 24 16 00-0482 EA 3 Pole, 240/480 Volt, 15-30 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	268.44	38.79
For Bolt-On, Add	48.64	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0483 EA 3 Pole, 240/480 Volt, 35-60 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity.....	268.44	38.79
For Bolt-On, Add	48.64	
For Installation In New Panelboard, Deduct	-21.55	
Note: Also for use with new interiors in panelboards.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 24</b>	<b>Switchboards And Panelboards</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0484	EA		3 Pole, 240/480 Volt, 70-100 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity .....	354.37	48.48
			<i>For Bolt-On, Add</i>	63.15	
			<i>For Installation In New Panelboard, Deduct</i>	-26.94	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.33	
26 24 16 00-0485	EA		3 Pole, 240/480 Volt, 110-125 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity .....	625.62	58.19
			<i>For Bolt-On, Add</i>	100.83	
			<i>For Installation In New Panelboard, Deduct</i>	-32.33	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.79	
26 24 16 00-0486	EA		3 Pole, 240/480 Volt, 150-225 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity .....	791.82	75.43
			<i>For Bolt-On, Add</i>	128.21	
			<i>For Installation In New Panelboard, Deduct</i>	-41.76	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.11	
26 24 16 00-0487	EA		3 Pole, 240/480 Volt, 250 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity .....	1,235.45	87.28
			<i>For Bolt-On, Add</i>	188.37	
			<i>For Installation In New Panelboard, Deduct</i>	-48.49	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	58.19	
26 24 16 00-0488	EA		3 Pole, 240/480 Volt, 300-400 Amp, Branch Circuit Breaker, 30,000 Amp Interrupting Capacity .....	1,315.10	92.67
			<i>For Bolt-On, Add</i>	200.22	
			<i>For Installation In New Panelboard, Deduct</i>	-51.18	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61.42	
<b>26 24 16 00-0489</b>			<b>Branch Circuit Breakers 35,000 Amp Interrupting Capacity, Plug-On</b> <small>(26 24 16 00-0389)</small>		
			<i>Note: Includes connection of electrical wire.</i>		
26 24 16 00-0490	EA		1 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	92.62	19.39
			<i>For Bolt-On, Add</i>	19.12	
			<i>For Installation In New Panelboard, Deduct</i>	-10.78	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.93	
26 24 16 00-0491	EA		1 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	92.62	19.39
			<i>For Bolt-On, Add</i>	19.12	
			<i>For Installation In New Panelboard, Deduct</i>	-10.78	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.93	
26 24 16 00-0492	EA		1 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	152.30	24.24
			<i>For Bolt-On, Add</i>	28.46	
			<i>For Installation In New Panelboard, Deduct</i>	-13.47	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.16	
26 24 16 00-0493	EA		2 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	189.98	29.09
			<i>For Bolt-On, Add</i>	35.06	
			<i>For Installation In New Panelboard, Deduct</i>	-16.16	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.40	
26 24 16 00-0494	EA		2 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	189.98	29.09
			<i>For Bolt-On, Add</i>	35.06	
			<i>For Installation In New Panelboard, Deduct</i>	-16.16	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.40	
26 24 16 00-0495	EA		2 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	334.42	38.79
			<i>For Bolt-On, Add</i>	56.89	
			<i>For Installation In New Panelboard, Deduct</i>	-21.55	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86	
26 24 16 00-0496	EA		2 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	600.20	48.48
			<i>For Bolt-On, Add</i>	93.88	
			<i>For Installation In New Panelboard, Deduct</i>	-26.94	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.33	
26 24 16 00-0497	EA		2 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	1,138.56	60.34
			<i>For Bolt-On, Add</i>	165.89	
			<i>For Installation In New Panelboard, Deduct</i>	-33.67	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.41	
26 24 16 00-0498	EA		3 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	305.68	38.79
			<i>For Bolt-On, Add</i>	53.30	
			<i>For Installation In New Panelboard, Deduct</i>	-21.55	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86	
26 24 16 00-0499	EA		3 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	305.68	38.79
			<i>For Bolt-On, Add</i>	53.30	
			<i>For Installation In New Panelboard, Deduct</i>	-21.55	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86	
26 24 16 00-0500	EA		3 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity .....	406.11	48.48
			<i>For Bolt-On, Add</i>	69.62	
			<i>For Installation In New Panelboard, Deduct</i>	-26.94	
			<i>Note: Also for use with new interiors in panelboards.</i>		
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.33	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 24 16 00-0501	EA	3 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	738.07	58.19	
			<i>For Bolt-On, Add</i>	114.89		
			<i>For Installation In New Panelboard, Deduct</i>	-32.33		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.79		
	26 24 16 00-0502	EA	3 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 35,000 Amp Interrupting Capacity	1,415.44	75.43	
			<i>For Bolt-On, Add</i>	206.16		
			<i>For Installation In New Panelboard, Deduct</i>	-41.76		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.11		
	<b>26 24 16 00-0503</b>		<b>Branch Circuit Breakers 42,000 Amp Interrupting Capacity, Plug-On</b> <small>(26 24 16 00-0389)</small>			
			<i>Note: Includes connection of electrical wire.</i>			
	26 24 16 00-0504	EA	1 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	128.40	19.39	
			<i>For Bolt-On, Add</i>	23.59		
			<i>For Installation In New Panelboard, Deduct</i>	-10.78		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.93		
	26 24 16 00-0505	EA	1 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	128.40	19.39	
			<i>For Bolt-On, Add</i>	23.59		
			<i>For Installation In New Panelboard, Deduct</i>	-10.78		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.93		
	26 24 16 00-0506	EA	1 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	190.36	24.24	
			<i>For Bolt-On, Add</i>	33.22		
			<i>For Installation In New Panelboard, Deduct</i>	-13.47		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	16.16		
	26 24 16 00-0507	EA	2 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	231.38	29.09	
			<i>For Bolt-On, Add</i>	40.24		
			<i>For Installation In New Panelboard, Deduct</i>	-16.16		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.40		
	26 24 16 00-0508	EA	2 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	231.38	29.09	
			<i>For Bolt-On, Add</i>	40.24		
			<i>For Installation In New Panelboard, Deduct</i>	-16.16		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.40		
	26 24 16 00-0509	EA	2 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	423.54	38.79	
			<i>For Bolt-On, Add</i>	68.03		
			<i>For Installation In New Panelboard, Deduct</i>	-21.55		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86		
	26 24 16 00-0510	EA	2 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	751.42	48.48	
			<i>For Bolt-On, Add</i>	112.79		
			<i>For Installation In New Panelboard, Deduct</i>	-26.94		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.33		
	26 24 16 00-0511	EA	2 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	1,464.01	53.87	
			<i>For Bolt-On, Add</i>	203.74		
			<i>For Installation In New Panelboard, Deduct</i>	-29.63		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.56		
	26 24 16 00-0512	EA	3 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	388.64	38.79	
			<i>For Bolt-On, Add</i>	63.67		
			<i>For Installation In New Panelboard, Deduct</i>	-21.55		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86		
	26 24 16 00-0513	EA	3 Pole, 240 Volt, 35-60 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	388.64	38.79	
			<i>For Bolt-On, Add</i>	63.67		
			<i>For Installation In New Panelboard, Deduct</i>	-21.55		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86		
	26 24 16 00-0514	EA	3 Pole, 240 Volt, 70-100 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	534.28	48.48	
			<i>For Bolt-On, Add</i>	85.64		
			<i>For Installation In New Panelboard, Deduct</i>	-26.94		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.33		
	26 24 16 00-0515	EA	3 Pole, 240 Volt, 110-125 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	850.52	58.19	
			<i>For Bolt-On, Add</i>	128.94		
			<i>For Installation In New Panelboard, Deduct</i>	-32.33		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.79		
	26 24 16 00-0516	EA	3 Pole, 240 Volt, 150-225 Amp, Branch Circuit Breaker, 42,000 Amp Interrupting Capacity	1,853.73	75.43	
			<i>For Bolt-On, Add</i>	260.94		
			<i>For Installation In New Panelboard, Deduct</i>	-41.76		
			<i>Note: Also for use with new interiors in panelboards.</i>			
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.11		
	<b>26 24 16 00-0517</b>		<b>Branch Circuit Breakers 65,000 Amp Interrupting Capacity, Plug-On</b> <small>(26 24 16 00-0389)</small>			
			<i>Note: Includes connection of electrical wire.</i>			

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0518 EA 1 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	66.64	19.39
<i>For Bolt-On, Add</i>	15.87	
<i>For Installation In New Panelboard, Deduct</i>	-10.78	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.93	
26 24 16 00-0519 EA 2 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	130.98	29.09
<i>For Bolt-On, Add</i>	27.69	
<i>For Installation In New Panelboard, Deduct</i>	-16.16	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.40	
26 24 16 00-0520 EA 3 Pole, 240 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	201.75	38.79
<i>For Bolt-On, Add</i>	40.30	
<i>For Installation In New Panelboard, Deduct</i>	-21.55	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86	
26 24 16 00-0521 EA 1 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	122.27	19.39
<i>For Bolt-On, Add</i>	22.83	
<i>For Installation In New Panelboard, Deduct</i>	-10.78	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.93	
26 24 16 00-0522 EA 1 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	122.27	19.39
<i>For Bolt-On, Add</i>	22.83	
<i>For Installation In New Panelboard, Deduct</i>	-10.78	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12.93	
26 24 16 00-0523 EA 1 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	243.63	38.79
<i>For Bolt-On, Add</i>	45.54	
<i>For Installation In New Panelboard, Deduct</i>	-21.55	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86	
26 24 16 00-0524 EA 2 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	265.49	29.09
<i>For Bolt-On, Add</i>	44.50	
<i>For Installation In New Panelboard, Deduct</i>	-16.16	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.40	
26 24 16 00-0525 EA 2 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	265.49	29.09
<i>For Bolt-On, Add</i>	44.50	
<i>For Installation In New Panelboard, Deduct</i>	-16.16	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19.40	
26 24 16 00-0526 EA 2 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	500.40	38.79
<i>For Bolt-On, Add</i>	77.64	
<i>For Installation In New Panelboard, Deduct</i>	-21.55	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86	
26 24 16 00-0527 EA 2 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	836.73	48.48
<i>For Bolt-On, Add</i>	123.45	
<i>For Installation In New Panelboard, Deduct</i>	-26.94	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.33	
26 24 16 00-0528 EA 2 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	1,808.31	60.34
<i>For Bolt-On, Add</i>	249.61	
<i>For Installation In New Panelboard, Deduct</i>	-33.67	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40.41	
26 24 16 00-0529 EA 3 Pole, 480 Volt, 15-30 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	437.43	38.79
<i>For Bolt-On, Add</i>	69.76	
<i>For Installation In New Panelboard, Deduct</i>	-21.55	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86	
26 24 16 00-0530 EA 3 Pole, 480 Volt, 35-60 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	437.43	38.79
<i>For Bolt-On, Add</i>	69.76	
<i>For Installation In New Panelboard, Deduct</i>	-21.55	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25.86	
26 24 16 00-0531 EA 3 Pole, 480 Volt, 70-100 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	605.11	48.48
<i>For Bolt-On, Add</i>	94.50	
<i>For Installation In New Panelboard, Deduct</i>	-26.94	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32.33	
26 24 16 00-0532 EA 3 Pole, 480 Volt, 110-125 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	912.56	58.19
<i>For Bolt-On, Add</i>	136.70	
<i>For Installation In New Panelboard, Deduct</i>	-32.33	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.79	
26 24 16 00-0533 EA 3 Pole, 480 Volt, 150-225 Amp, Branch Circuit Breaker, 65,000 Amp Interrupting Capacity .....	2,248.43	75.43
<i>For Bolt-On, Add</i>	310.28	
<i>For Installation In New Panelboard, Deduct</i>	-41.76	
<i>Note: Also for use with new interiors in panelboards.</i>		
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50.11	

26 24 16 00-0534 Residential Lighting And Power Panelboards (26 24 16 00-0001)

26 24 16 00-0535 Residential Type Unassembled Load Center (26 24 16 00-0534)  
 Note: Interior box and cover, includes ground bar kit.



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Switchboards And Panelboards</b>	<b>26 24</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 16 00-0536</b> Main Lug Load Center, 3 Wire, 120/240 Volt, Single Phase <small>(26 24 16 00-0535)</small>		
26 24 16 00-0537 EA 30 Amp, 2 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled .....	138.92	53.87
26 24 16 00-0538 EA 70 Amp, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled .....	477.32	215.50
26 24 16 00-0539 EA 100 Amp, 8 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled .....	715.48	307.63
26 24 16 00-0540 EA 125 Amp, 24 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled .....	1,525.75	646.62
26 24 16 00-0541 EA 150 Amp, 30 Circuit, Main Lug Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled .....	1,666.37	700.39
<b>26 24 16 00-0542</b> Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 V AC <small>(26 24 16 00-0535)</small>		
Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta.		
26 24 16 00-0543 EA 60 Amp, 3 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled .....	188.29	59.26
26 24 16 00-0544 EA 125 Amp, 3 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled .....	323.46	64.65
<b>26 24 16 00-0545</b> Main Lug Load Center, 3 Wire 120/240 Volt, Single Phase, Rainproof <small>(26 24 16 00-0535)</small>		
26 24 16 00-0546 EA 40 Amp, 2 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled .....	191.14	59.26
26 24 16 00-0547 EA 70 Amp, 4 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled .....	212.72	64.65
26 24 16 00-0548 EA 100 Amp, 8 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled .....	772.59	307.63
26 24 16 00-0549 EA 150 Amp, 30 Circuit, Main Lug Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled .....	1,753.27	700.39
<b>26 24 16 00-0550</b> Main Lug Load Center, 3 Phase 4 Wire, 208 Y/120 V AC <small>(26 24 16 00-0535)</small>		
Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta, Rainproof.		
26 24 16 00-0551 EA 60 A, 3 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled .....	231.74	59.26
26 24 16 00-0552 EA 125 A, 20 Circuit, Main Lug Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled .....	1,684.77	646.62
<b>26 24 16 00-0553</b> Main Breaker Load Center, 3 Wire, 120/240 Volt, Single Phase <small>(26 24 16 00-0535)</small>		
26 24 16 00-0554 EA 125 Amp, 24 Circuit, Main Breaker Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled .....	1,796.38	646.62
26 24 16 00-0555 EA 150 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled .....	1,949.41	700.39
26 24 16 00-0556 EA 300 Amp, 42 Circuit, Main Breaker Load Center Panelboard, 3 Wire, 120/240 Volt, Single Phase, Unassembled .....	6,394.00	1,077.52
<b>26 24 16 00-0557</b> Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 V AC <small>(26 24 16 00-0535)</small>		
Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta.		
26 24 16 00-0558 EA 125 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled .....	2,517.40	646.62
26 24 16 00-0559 EA 150 Amp, 40 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled .....	2,744.30	700.39
26 24 16 00-0560 EA 300 Amp, 42 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Unassembled .....	7,000.68	1,077.52
<b>26 24 16 00-0561</b> Main Breaker Load Center, 3 Wire 120/240 Volt, Single Phase, Rainproof <small>(26 24 16 00-0535)</small>		
26 24 16 00-0562 EA 125 Amp, 24 Circuit, Main Breaker Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled .....	1,877.07	646.62
26 24 16 00-0563 EA 150 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Wire 120/240 Volt, 1 Phase, Rainproof, Unassembled .....	2,087.21	700.39
<b>26 24 16 00-0564</b> Main Breaker Load Center, 3 Phase 4 Wire, 208 Y/120 V AC <small>(26 24 16 00-0535)</small>		
Note: 3 Phase 4 wire 240/120 V AC Delta, 3 phase 3 wire 240 V AC Delta, Rainproof.		
26 24 16 00-0565 EA 125 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled .....	2,651.22	646.62
26 24 16 00-0566 EA 155 Amp, 30 Circuit, Main Breaker Load Center Panelboard, 3 Phase 4 Wire, 208 Y/120 Volt AC, 3 Phase 4 Wire 240/120 Volt AC Delta, 3 Phase 3 Wire 240 Volt AC Delta, Rainproof, Unassembled .....	2,758.82	700.39
<b>26 24 16 00-0567</b> Residential Type Assembled Load Center <small>(26 24 16 00-0534)</small>		
<b>26 24 16 00-0568</b> Main Lug Load Center, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase <small>(26 24 16 00-0567)</small>		
Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0569 EA 100 Amp Main Lugs, Indoor 8 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	715.86	307.63
26 24 16 00-0570 EA 100 Amp Main Lugs, Indoor 12 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	866.46	359.35
26 24 16 00-0571 EA 100 Amp Main Lugs, Rainproof, 8 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	729.51	307.63
26 24 16 00-0572 EA 100 Amp Main Lugs, Rainproof, 12 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	870.18	359.35
26 24 16 00-0573 EA 200 Amp Main Lugs, Indoor, 8 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	1,248.46	478.95
26 24 16 00-0574 EA 200 Amp Main Lugs, Indoor, 20 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	1,476.21	574.86
26 24 16 00-0575 EA 200 Amp Main Lugs, Indoor, 24 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	1,690.08	663.21
26 24 16 00-0576 EA 200 Amp Main Lugs, Indoor, 30 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	1,858.01	717.96
26 24 16 00-0577 EA 200 Amp Main Lugs, Indoor, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	2,781.96	1,077.52
26 24 16 00-0578 EA 200 Amp Main Lugs, Rainproof, 16 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	1,296.88	478.95
26 24 16 00-0579 EA 200 Amp Main Lugs, Rainproof, 20 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	1,522.15	574.86
26 24 16 00-0580 EA 200 Amp Main Lugs, Rainproof, 24 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	1,736.01	663.21
26 24 16 00-0581 EA 200 Amp Main Lugs, Rainproof, 30 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	1,901.46	717.96
26 24 16 00-0582 EA 200 Amp Main Lugs, Rainproof, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	2,924.72	1,077.52

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 16 00-0583 EA 400 Amp Main Lugs, Indoor, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	3,381.42	1,197.23
26 24 16 00-0584 EA 400 Amp Main Lugs, Rainproof, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers .....	3,530.39	1,197.23
<b>26 24 16 00-0585 Main Lug Load Center, 4 Wire, 20 Amp, 120/208 V (26 24 16 00-0567)</b> Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0586 EA 125 Amp Main Lugs, Indoor, 12 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	935.98	359.35
26 24 16 00-0587 EA 125 Amp Main Lugs, Indoor, 18 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	1,396.57	538.76
26 24 16 00-0588 EA 125 Amp Main Lugs, Rainproof, 12 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	976.95	359.35
26 24 16 00-0589 EA 125 Amp Main Lugs, Rainproof, 18 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	1,433.81	538.76
26 24 16 00-0590 EA 200 Amp Main Lugs, Indoor, 24 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	1,760.84	663.21
26 24 16 00-0591 EA 200 Amp Main Lugs, Indoor, 30 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	1,920.84	718.39
26 24 16 00-0592 EA 200 Amp Main Lugs, Indoor, 36 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	2,345.30	862.33
26 24 16 00-0593 EA 200 Amp Main Lugs, Indoor, 42 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	2,831.62	1,077.52
26 24 16 00-0594 EA 200 Amp Main Lugs, Rainproof, 24 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	1,804.29	663.21
26 24 16 00-0595 EA 200 Amp Main Lugs, Rainproof, 30 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	1,969.74	717.96
26 24 16 00-0596 EA 200 Amp Main Lugs, Rainproof, 36 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	2,511.78	861.69
26 24 16 00-0597 EA 200 Amp Main Lugs, Rainproof, 42 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	2,999.21	1,077.52
26 24 16 00-0598 EA 400 Amp Main Lugs, Indoor, 42 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	3,418.66	1,197.23
26 24 16 00-0599 EA 400 Amp Main Lugs, Rainproof, 42 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	3,567.63	1,197.23
<b>26 24 16 00-0600 Main Breaker Load Center, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase (26 24 16 00-0567)</b> Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0601 EA 125 Amp Main Breaker, Indoor, 12 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers.....	931.01	359.35
26 24 16 00-0602 EA 125 Amp Main Breaker, Indoor, 18 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers.....	1,379.19	538.76
26 24 16 00-0603 EA 200 Amp Main Breaker, Indoor, 20 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers.....	1,578.01	574.86
26 24 16 00-0604 EA 200 Amp Main Breaker, Indoor, 24 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers.....	1,811.14	663.53
26 24 16 00-0605 EA 200 Amp Main Breaker, Indoor, 30 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, With 1 Pole Plug-In Breakers.....	1,989.12	718.39
26 24 16 00-0606 EA 200 Amp Main Breaker, Indoor, 40 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker .....	2,635.96	957.92
26 24 16 00-0607 EA 200 Amp Main Breaker, Rainproof, 20 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker .....	1,590.42	574.86
26 24 16 00-0608 EA 200 Amp Main Breaker, Rainproof, 24 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker .....	1,835.32	663.21
26 24 16 00-0609 EA 200 Amp Main Breaker, Rainproof, 30 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker .....	1,994.57	717.96
26 24 16 00-0610 EA 200 Amp Main Breaker, Rainproof, 40 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker .....	2,567.68	957.92
26 24 16 00-0611 EA 400 Amp Main Breaker, Indoor, 42 Circuit, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker .....	4,660.09	1,197.23
26 24 16 00-0612 EA 400 Amp Main Breaker, Rainproof, 42 Circuits, 3 Wire, 20 Amp, 120/240 Volt, 1 Phase, 1 Pole Plug-In Breaker .....	4,908.37	1,197.23
<b>26 24 16 00-0613 Main Breaker Load Center, 4 Wire, 20 Amp, 120/208 V (26 24 16 00-0567)</b> Note: Includes 1 pole plug-in breaker.		
26 24 16 00-0614 EA 200 Amp Main Breaker, Indoor, 30 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker.....	2,336.72	718.39
26 24 16 00-0615 EA 200 Amp Main Breaker, Indoor, 42 Circuit, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker.....	3,228.87	1,077.52
26 24 16 00-0616 EA 200 Amp Main Breaker, Rainproof, 30 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	2,410.45	717.96
26 24 16 00-0617 EA 200 Amp Main Breaker, Rainproof, 42 Circuits, 4 Wire, 20 Amp, 120/208 Volt, 1 Pole Plug-In Breaker .....	3,303.36	1,077.52
<b>26 24 16 00-0618 Panel Mounted Accessories And Fuseholders (26 24 16 00-0001)</b>		
<b>26 24 16 00-0619 Midget Finger-Safe Fuse Holders (26 24 16 00-0618)</b> Note: 30 Amp capacity. Excludes fuse.		
26 24 16 00-0620 EA 1 Pole Midget Finger-Safe Fuse Holder .....	58.70	19.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 24 16 00-0621 EA 1 Pole With Indicator Midget Finger-Safe Fuse Holder .....	66.09	19.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 24 16 00-0622 EA 2 Pole Midget Finger-Safe Fuse Holder .....	92.75	29.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.40	
26 24 16 00-0623 EA 2 Pole With Indicators Midget Finger-Safe Fuse Holder .....	112.03	29.09
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	19.40	
26 24 16 00-0624 EA 3 Pole Midget Finger-Safe Fuse Holder .....	132.77	38.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0625 EA 3 Pole With Indicators Midget Finger-Safe Fuse Holder .....	158.39	38.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0626 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder .....	179.82	38.79
Note: With indicators.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0627 EA 3 Pole With 4th Neutral Pole Midget Finger-Safe Fuse Holder .....	151.41	38.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	25.86	
26 24 16 00-0628 EA 4 Pole Midget Finger-Safe Fuse Holder .....	166.90	48.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.33	
26 24 16 00-0629 EA 4 Pole With Indicator Midget Finger-Safe Fuse Holder .....	195.04	48.48
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	32.33	
26 24 16 00-0630 EA 12 To 24 Volt DC Midget Finger-Safe Fuse Holder.....	66.11	19.39
Note: With indicator.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 24 16 00-0631 EA 20 To 24 Volt DC Midget Finger-Safe Fuse Holder.....	70.04	19.39
Note: With indicator.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 24 16 00-0632 EA 35 To 48 Volt DC Midget Finger-Safe Fuse Holder.....	66.83	19.39
Note: With indicator.		
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Switchboards And Panelboards</b>	<b>26 24</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 16 00-0633</b> <b>Removal And Reinstallation Of Panelboards</b> <small>(26 24 16 00-0001)</small>		
Note: Includes storage, cleaning and supply materials.		
26 24 16 00-0634     EA    Removal And Reinstallation Of Up To 42 Circuit Capacity Panelboards With Breakers.....	1,351.91	
Note: Includes removal and reinstallation of main wiring to panelboard.		
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		404.07
26 24 16 00-0635     EA    Removal And Reinstallation Of Breaker, 1-2-3 Pole, Any Amperage .....	71.48	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		21.01
26 24 16 00-0636     EA    Panelboard Filler Plate, Fits 1" Opening.....	4.81	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		1.01
<b>26 24 19</b> <b>Motor-Control Centers</b> <small>(26 24)</small>		
<b>26 24 19 00-0001</b> <b>Combination Starters With Molded Case Circuit Breakers</b> <small>(26 24 19)</small>		
Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" o 20" Deep), fully factory assembled and wired internally.		
<b>26 24 19 00-0002</b> <b>230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 1-Speed non-reversing.		
26 24 19 00-0003     EA    230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination With Molded Case Circuit.....	2,218.47	98.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		59.11
26 24 19 00-0004     EA    230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination With Molded Case Circuit.....	2,627.96	103.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		62.06
26 24 19 00-0005     EA    230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination With Molded Case Circuit.....	3,912.85	108.35
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		65.02
26 24 19 00-0006     EA    230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit.....	7,096.49	128.06
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		76.84
26 24 19 00-0007     EA    230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit.....	14,297.66	147.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		88.66
26 24 19 00-0008     EA    230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit.....	24,057.27	197.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		118.21
<b>26 24 19 00-0009</b> <b>480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 1-Speed non-reversing.		
26 24 19 00-0010     EA    480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination With Molded Case Circuit.....	2,218.47	98.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		59.11
26 24 19 00-0011     EA    480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination With Molded Case Circuit.....	2,627.96	103.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		62.06
26 24 19 00-0012     EA    480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination With Molded Case Circuit.....	3,912.85	108.35
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		65.02
26 24 19 00-0013     EA    480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination With Molded Case Circuit.....	7,096.49	128.06
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		76.84
26 24 19 00-0014     EA    480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination With Molded Case Circuit.....	14,297.66	147.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		88.66
26 24 19 00-0015     EA    480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination With Molded Case Circuit.....	24,057.27	197.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		118.21
<b>26 24 19 00-0016</b> <b>230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 1-Speed reversing.		
26 24 19 00-0017     EA    230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination With Molded Case Circuit.....	3,216.51	98.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		59.11
26 24 19 00-0018     EA    230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination With Molded Case Circuit.....	4,287.83	103.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		62.06
26 24 19 00-0019     EA    230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination With Molded Case Circuit.....	6,147.86	108.35
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		65.02
26 24 19 00-0020     EA    230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit.....	10,758.78	128.06
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		76.84
26 24 19 00-0021     EA    230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit.....	21,180.32	147.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		88.66
26 24 19 00-0022     EA    230 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit.....	36,503.14	197.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		118.21
<b>26 24 19 00-0023</b> <b>480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 1-Speed reversing.		
26 24 19 00-0024     EA    480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination With Molded Case Circuit.....	3,216.51	98.50
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		59.11
26 24 19 00-0025     EA    480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination With Molded Case Circuit.....	4,287.83	103.43
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		62.06
26 24 19 00-0026     EA    480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination With Molded Case Circuit.....	6,147.86	108.35
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		65.02
26 24 19 00-0027     EA    480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination With Molded Case Circuit.....	10,758.78	128.06
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		76.84
26 24 19 00-0028     EA    480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination With Molded Case Circuit.....	21,180.32	147.76
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		88.66
26 24 19 00-0029     EA    480 Volt, Full Volt, 1 Speed, Reversing, 400 HP Combination With Molded Case Circuit.....	36,503.14	197.02
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>
		118.21
<b>26 24 19 00-0030</b> <b>230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small>		
Note: 2-Speed non-reversing, 2 wind.		

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0031 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit .....3,911.95 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 94.56		157.61
26 24 19 00-0032 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit .....5,382.20 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 100.48		167.46
26 24 19 00-0033 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit .....7,926.59 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 106.38		177.31
26 24 19 00-0034 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....14,169.20 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 121.16		201.94
26 24 19 00-0035 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....23,476.37 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 141.86		236.42
<b>26 24 19 00-0036 480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0037 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit .....3,911.95 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 94.56		157.61
26 24 19 00-0038 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit .....5,382.20 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 100.48		167.46
26 24 19 00-0039 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....7,926.59 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 106.38		177.31
26 24 19 00-0040 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....14,169.20 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 121.16		201.94
26 24 19 00-0041 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit .....23,476.37 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 141.86		236.42
<b>26 24 19 00-0042 230 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0043 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination With Molded Case Circuit .....4,521.15 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 59.11		98.50
26 24 19 00-0044 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination With Molded Case Circuit .....6,730.07 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 62.06		103.43
26 24 19 00-0045 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination With Molded Case Circuit .....9,213.87 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 65.02		108.35
26 24 19 00-0046 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....17,311.58 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 76.84		128.06
26 24 19 00-0047 EA 230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....29,995.62 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 88.66		147.76
<b>26 24 19 00-0048 480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small> Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0049 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination With Molded Case Circuit .....4,521.15 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 59.11		98.50
26 24 19 00-0050 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination With Molded Case Circuit .....6,730.07 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 62.06		103.43
26 24 19 00-0051 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination With Molded Case Circuit .....9,213.87 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 65.02		108.35
26 24 19 00-0052 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination With Molded Case Circuit .....17,311.58 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 76.84		128.06
26 24 19 00-0053 EA 480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination With Molded Case Circuit .....29,995.62 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 88.66		147.76
<b>26 24 19 00-0054 480 Volt Combination With Molded Case Circuit, Full Volt</b> <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0055 EA 230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination With Molded Case Circuit .....6,687.78		103.43
26 24 19 00-0056 EA 230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination With Molded Case Circuit .....10,240.79		113.28
26 24 19 00-0057 EA 230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit .....17,262.95		128.06
26 24 19 00-0058 EA 230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit .....26,705.48		147.76
26 24 19 00-0059 EA 230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit .....45,688.48		197.02
<b>26 24 19 00-0060 480 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small> Note: Reducing volt, auto-transformer.		
26 24 19 00-0061 EA 480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination With Molded Case Circuit .....6,687.78		103.43
26 24 19 00-0062 EA 480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination With Molded Case Circuit .....10,240.79		113.28
26 24 19 00-0063 EA 480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination With Molded Case Circuit .....17,262.95		128.06
26 24 19 00-0064 EA 480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination With Molded Case Circuit .....26,705.48		147.76
26 24 19 00-0065 EA 480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination With Molded Case Circuit .....45,688.48		197.02
<b>26 24 19 00-0066 230 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small> Note: Reducing volt, part winding.		
26 24 19 00-0067 EA 230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination With Molded Case Circuit .....4,565.33 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 94.56		157.61
26 24 19 00-0068 EA 230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination With Molded Case Circuit .....5,898.09 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 109.34		182.24
26 24 19 00-0069 EA 230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination With Molded Case Circuit .....10,373.69 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 121.16		201.94
26 24 19 00-0070 EA 230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit .....17,683.32 <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> 147.76		246.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0071 EA 230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,293.71 189.14	315.22
<b>26 24 19 00-0072 480 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small> Note: Reducing volt, part winding.		
26 24 19 00-0073 EA 480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,565.33 94.56	157.61
26 24 19 00-0074 EA 480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,898.09 109.34	182.24
26 24 19 00-0075 EA 480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,373.69 121.16	201.94
26 24 19 00-0076 EA 480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,683.32 147.76	246.27
26 24 19 00-0077 EA 480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,293.71 189.14	315.22
<b>26 24 19 00-0078 230 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small> Note: Reducing volt, energy saver.		
26 24 19 00-0079 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7-1/2 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,876.30 76.84	128.06
26 24 19 00-0080 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,024.35 94.56	157.61
26 24 19 00-0081 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,111.98 109.34	182.24
26 24 19 00-0082 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,480.82 121.16	201.94
26 24 19 00-0083 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45,662.22 147.76	246.27
26 24 19 00-0084 EA 230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61,967.54 189.14	315.22
<b>26 24 19 00-0085 480 Volt Combination With Molded Case Circuit</b> <small>(26 24 19 00-0001)</small> Note: Reducing volt, energy saver.		
26 24 19 00-0086 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,876.30 76.84	128.06
26 24 19 00-0087 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,024.35 94.56	157.61
26 24 19 00-0088 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,111.98 109.34	182.24
26 24 19 00-0089 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,480.82 121.16	201.94
26 24 19 00-0090 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45,662.22 147.76	246.27
26 24 19 00-0091 EA 480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination With Molded Case Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61,967.54 189.14	315.22
<b>26 24 19 00-0092 Combination Starters With Current Limiting Circuit Breakers</b> <small>(26 24 19)</small> Note: Includes NEMA 1 enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and wired internally.		
<b>26 24 19 00-0093 230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed non-reversing.		
26 24 19 00-0094 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,969.11 59.11	98.50
26 24 19 00-0095 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 15 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,378.60 62.06	103.43
26 24 19 00-0096 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 30 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,225.94 65.02	108.35
26 24 19 00-0097 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,631.76 76.84	128.06
26 24 19 00-0098 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	17,245.26 88.66	147.76
26 24 19 00-0099 EA 230 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	28,110.74 118.21	197.02
<b>26 24 19 00-0100 480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Full volt, 1-speed non-reversing.		

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0101 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 10 HP Combination Starters With Current Limiting Circuit.....	2,969.11	98.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>59.11</i>	
26 24 19 00-0102 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 25 HP Combination Starters With Current Limiting Circuit.....	3,378.60	103.43
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>62.06</i>	
26 24 19 00-0103 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 50 HP Combination Starters With Current Limiting Circuit.....	5,225.94	108.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>65.02</i>	
26 24 19 00-0104 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 100 HP Combination Starters With Current Limiting Circuit.....	9,631.76	128.06
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>76.84</i>	
26 24 19 00-0105 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 200 HP Combination Starters With Current Limiting Circuit.....	17,245.26	147.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>88.66</i>	
26 24 19 00-0106 EA 480 Volt, Full Volt, 1 Speed, Non-Reversing, 400 HP Combination Starters With Current Limiting Circuit.....	28,110.74	197.02
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>118.21</i>	
<b>26 24 19 00-0107 230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
Note: Full volt, 1-speed reversing.		
26 24 19 00-0108 EA 230 Volt, Full Volt, 1 Speed, Reversing, 7-1/2 HP Combination Starters With Current Limiting Circuit .....	3,960.81	98.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>59.11</i>	
26 24 19 00-0109 EA 230 Volt, Full Volt, 1 Speed, Reversing, 15 HP Combination Starters With Current Limiting Circuit .....	5,023.67	103.43
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>62.06</i>	
26 24 19 00-0110 EA 230 Volt, Full Volt, 1 Speed, Reversing, 30 HP Combination Starters With Current Limiting Circuit .....	7,431.35	108.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>65.02</i>	
26 24 19 00-0111 EA 230 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit .....	13,260.22	128.06
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>76.84</i>	
26 24 19 00-0112 EA 230 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit .....	24,068.71	147.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>88.66</i>	
<b>26 24 19 00-0113 480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
Note: Full volt, 1-speed reversing.		
26 24 19 00-0114 EA 480 Volt, Full Volt, 1 Speed, Reversing, 10 HP Combination Starters With Current Limiting Circuit .....	3,960.81	98.50
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>59.11</i>	
26 24 19 00-0115 EA 480 Volt, Full Volt, 1 Speed, Reversing, 25 HP Combination Starters With Current Limiting Circuit .....	5,023.67	103.43
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>62.06</i>	
26 24 19 00-0116 EA 480 Volt, Full Volt, 1 Speed, Reversing, 50 HP Combination Starters With Current Limiting Circuit .....	7,431.35	108.35
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>65.02</i>	
26 24 19 00-0117 EA 480 Volt, Full Volt, 1 Speed, Reversing, 100 HP Combination Starters With Current Limiting Circuit .....	13,260.22	128.06
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>76.84</i>	
26 24 19 00-0118 EA 480 Volt, Full Volt, 1 Speed, Reversing, 200 HP Combination Starters With Current Limiting Circuit .....	24,068.71	147.76
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>88.66</i>	
<b>26 24 19 00-0119 230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0120 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit .....	4,643.57	157.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>94.56</i>	
26 24 19 00-0121 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit .....	6,103.24	167.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>100.48</i>	
26 24 19 00-0122 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit .....	9,188.94	177.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>106.38</i>	
26 24 19 00-0123 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit .....	16,641.03	201.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>121.16</i>	
26 24 19 00-0124 EA 230 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit .....	26,341.50	236.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>141.86</i>	
<b>26 24 19 00-0125 480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
Note: Full volt, 2-speed non-reversing, 2 wind.		
26 24 19 00-0126 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit .....	4,643.57	157.61
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>94.56</i>	
26 24 19 00-0127 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit .....	6,103.24	167.46
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>100.48</i>	
26 24 19 00-0128 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit .....	9,188.94	177.31
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>106.38</i>	
26 24 19 00-0129 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit .....	16,641.03	201.94
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>121.16</i>	
26 24 19 00-0130 EA 480 Volt, Full Volt, 2 Speed, 2 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit .....	26,341.50	236.42
<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>141.86</i>	
<b>26 24 19 00-0131 230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small>		
Note: Full volt, 2-speed non-reversing, 1 wind.		



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0132	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 7-1/2 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,351.26 88.66	147.76
26 24 19 00-0133	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,546.76 94.56	157.61
26 24 19 00-0134	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,588.07 100.48	167.46
26 24 19 00-0135	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,881.86 115.25	192.09
26 24 19 00-0136	EA	230 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,961.30 135.95	226.57
<b>26 24 19 00-0137</b>		<b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Full volt, 2-speed non-reversing, 1 wind.		
26 24 19 00-0138	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,351.26 88.66	147.76
26 24 19 00-0139	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,546.76 94.56	157.61
26 24 19 00-0140	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,588.07 100.48	167.46
26 24 19 00-0141	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,881.86 115.25	192.09
26 24 19 00-0142	EA	480 Volt, Full Volt, 2 Speed, 1 Wind Starter, Non-Reverse, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,961.30 135.95	226.57
<b>26 24 19 00-0143</b>		<b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Reduced volt, auto-transformer.		
26 24 19 00-0144	EA	230 Volt, Reduced Volt, Auto Transformer, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,398.24 62.06	103.43
26 24 19 00-0145	EA	230 Volt, Reduced Volt, Auto Transformer, 30 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,915.46 67.97	113.28
26 24 19 00-0146	EA	230 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,140.77 76.84	128.06
26 24 19 00-0147	EA	230 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,513.67 88.66	147.76
26 24 19 00-0148	EA	230 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50,207.14 118.21	197.02
<b>26 24 19 00-0149</b>		<b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Reduced volt, auto-transformer.		
26 24 19 00-0150	EA	480 Volt, Reduced Volt, Auto Transformer, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,398.24 62.06	103.43
26 24 19 00-0151	EA	480 Volt, Reduced Volt, Auto Transformer, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,915.46 67.97	113.28
26 24 19 00-0152	EA	480 Volt, Reduced Volt, Auto Transformer, 100 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,140.77 76.84	128.06
26 24 19 00-0153	EA	480 Volt, Reduced Volt, Auto Transformer, 200 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,513.67 88.66	147.76
26 24 19 00-0154	EA	480 Volt, Reduced Volt, Auto Transformer, 400 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	50,207.14 118.21	197.02
<b>26 24 19 00-0155</b>		<b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Reduced volt, part winding.		
26 24 19 00-0156	EA	230 Volt, Reduced Volt, Part Winding Starters, 10 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,296.94 94.56	157.61
26 24 19 00-0157	EA	230 Volt, Reduced Volt, Part Winding Starters, 25 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,614.90 109.34	182.24
26 24 19 00-0158	EA	230 Volt, Reduced Volt, Part Winding Starters, 50 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,627.58 121.16	201.94
26 24 19 00-0159	EA	230 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,597.08 147.76	246.27
26 24 19 00-0160	EA	230 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,387.66 189.14	315.22
<b>26 24 19 00-0161</b>		<b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Reduced volt, part winding.		
26 24 19 00-0162	EA	480 Volt, Reduced Volt, Part Winding Starters, 15 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,296.94 94.56	157.61
26 24 19 00-0163	EA	480 Volt, Reduced Volt, Part Winding Starters, 40 HP Combination Starters With Current Limiting Circuit <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,614.90 109.34	182.24

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 24</b>	<b>Switchboards And Panelboards</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0164	EA		480 Volt, Reduced Volt, Part Winding Starters, 75 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,627.58 121.16	201.94
26 24 19 00-0165	EA		480 Volt, Reduced Volt, Part Winding Starters, 150 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,597.08 147.76	246.27
26 24 19 00-0166	EA		480 Volt, Reduced Volt, Part Winding Starters, 350 HP Combination Starters With Current Limiting Circuit ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	30,387.66 189.14	315.22
<b>26 24 19 00-0167</b>			<b>230 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0168	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 7.5 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,483.16 76.84	128.06
26 24 19 00-0169	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 15 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,624.87 94.56	157.61
26 24 19 00-0170	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 30 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,691.35 109.34	182.24
26 24 19 00-0171	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,960.81 121.16	201.94
26 24 19 00-0172	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46,034.37 147.76	246.27
26 24 19 00-0173	EA		230 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64,519.73 189.14	315.22
<b>26 24 19 00-0174</b>			<b>480 Volt Combination Starters With Current Limiting Circuit</b> <small>(26 24 19 00-0092)</small> Note: Reduced volt, energy saving		
26 24 19 00-0175	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 10 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,483.21 76.85	128.06
26 24 19 00-0176	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 25 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,624.87 94.56	157.61
26 24 19 00-0177	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 50 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,691.35 109.34	182.24
26 24 19 00-0178	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 100 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,960.81 121.16	201.94
26 24 19 00-0179	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 200 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	46,034.37 147.76	246.27
26 24 19 00-0180	EA		480 Volt, Energy Saver Solid State Reduced Volt Starter With MCP, 400 HP Combination Starters With Current Limiting Circuit..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	64,519.73 189.14	315.22
<b>26 24 19 00-0181</b>			<b>Combination Starters With Fusible Switch</b> <small>(26 24 19)</small> Note: Includes NEMA I enclosure of indoor installation, vertical free standing floor mounted sections (90" high x 20" wide x 16" to 20" deep), fully factory assembled and Wired Internally.		
<b>26 24 19 00-0182</b>			<b>230 Volt Combination Starters With Fusible Switch, Full Volt</b> <small>(26 24 19 00-0181)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0183	EA		7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,973.19 59.11	98.50
26 24 19 00-0184	EA		15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,723.11 62.06	103.43
26 24 19 00-0185	EA		30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,593.71 65.02	108.35
26 24 19 00-0186	EA		50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,105.10 76.84	128.06
26 24 19 00-0187	EA		100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,160.07 88.66	147.76
26 24 19 00-0188	EA		200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,475.78 118.21	197.02
<b>26 24 19 00-0189</b>			<b>480 Volt Combination Starters With Fusible Switch, Full Volt</b> <small>(26 24 19 00-0181)</small> Note: 1-Speed non-reversing.		
26 24 19 00-0190	EA		10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,973.19 59.11	98.50
26 24 19 00-0191	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,723.11 62.06	103.43
26 24 19 00-0192	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,593.71 65.02	108.35
26 24 19 00-0193	EA		100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,105.10 76.84	128.06
26 24 19 00-0194	EA		200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	13,160.07 88.66	147.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0195 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Non-Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,475.78 118.21	197.02
<b>26 24 19 00-0196 230 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181) Note: 1-Speed reversing.		
26 24 19 00-0197 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,189.02 59.11	98.50
26 24 19 00-0198 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,753.02 62.06	103.43
26 24 19 00-0199 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,606.86 65.02	108.35
26 24 19 00-0200 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,399.63 76.84	128.06
26 24 19 00-0201 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,078.52 88.66	147.76
26 24 19 00-0202 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,432.75 118.21	197.02
<b>26 24 19 00-0203 480 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181) Note: 1-Speed reversing.		
26 24 19 00-0204 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,189.02 59.11	98.50
26 24 19 00-0205 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,753.02 62.06	103.43
26 24 19 00-0206 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,606.86 65.02	108.35
26 24 19 00-0207 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	12,399.63 76.84	128.06
26 24 19 00-0208 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,078.52 88.66	147.76
26 24 19 00-0209 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 1 Speed Reversing..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	32,432.75 118.21	197.02
<b>26 24 19 00-0210 230 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0211 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,734.34 94.56	157.61
26 24 19 00-0212 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,136.92 100.48	167.46
26 24 19 00-0213 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,085.18 106.38	177.31
26 24 19 00-0214 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,444.08 121.16	201.94
26 24 19 00-0215 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,013.29 141.86	236.42
<b>26 24 19 00-0216 480 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181) Note: 2-Speed non-reversing, 2 wind.		
26 24 19 00-0217 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,734.34 94.56	157.61
26 24 19 00-0218 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,136.92 100.48	167.46
26 24 19 00-0219 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8,085.18 106.38	177.31
26 24 19 00-0220 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14,444.08 121.16	201.94
26 24 19 00-0221 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 2 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,013.29 141.86	236.42
<b>26 24 19 00-0222 230 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0223 EA 7-1/2 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,263.18 59.11	98.50
26 24 19 00-0224 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,501.70 62.06	103.43
26 24 19 00-0225 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,361.88 65.02	108.35
26 24 19 00-0226 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,872.07 76.84	128.06
<b>26 24 19 00-0227 480 Volt Combination Starters With Fusible Switch, Full Volt</b> (26 24 19 00-0181) Note: 2-Speed non-reversing, 1 wind.		
26 24 19 00-0228 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,263.18 59.11	98.50
26 24 19 00-0229 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,501.70 62.06	103.43
26 24 19 00-0230 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,361.88 65.02	108.35

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 24</b>	<b>Switchboards And Panelboards</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0231 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Full Volt, 2 Speed Non-Reversing, 1 Wind Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,872.07 76.84	128.06
<b>26 24 19 00-0232 230 Volt Combination Starters With Fusible Switch, Reduced Volt</b> (26 24 19 00-0181) Note: Auto-transformer.		
26 24 19 00-0233 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,457.30 62.06	103.43
26 24 19 00-0234 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,401.64 67.97	113.28
26 24 19 00-0235 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,996.83 76.84	128.06
26 24 19 00-0236 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,364.89 88.66	147.76
26 24 19 00-0237 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42,614.01 118.21	197.02
<b>26 24 19 00-0238 480 Volt Combination Starters With Fusible Switch, Reduced Volt</b> (26 24 19 00-0181) Note: Auto-transformer.		
26 24 19 00-0239 EA 25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,457.30 62.06	103.43
26 24 19 00-0240 EA 50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	11,401.64 67.97	113.28
26 24 19 00-0241 EA 100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,996.83 76.84	128.06
26 24 19 00-0242 EA 200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	25,364.89 88.66	147.76
26 24 19 00-0243 EA 400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Auto-Transformer..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	42,614.01 118.21	197.02
<b>26 24 19 00-0244 230 Volt Combination Starters With Fusible Switch, Reduced Volt</b> (26 24 19 00-0181) Note: Part winding.		
26 24 19 00-0245 EA 10 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,592.82 94.56	157.61
26 24 19 00-0246 EA 25 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,079.93 109.34	182.24
26 24 19 00-0247 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,680.14 121.16	201.94
26 24 19 00-0248 EA 75 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,296.67 147.76	246.27
<b>26 24 19 00-0249 480 Volt Combination Starters With Fusible Switch, Reduced Volt</b> (26 24 19 00-0181) Note: Part winding.		
26 24 19 00-0250 EA 15 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,592.82 94.56	157.61
26 24 19 00-0251 EA 40 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,079.93 109.34	182.24
26 24 19 00-0252 EA 75 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,680.14 121.16	201.94
26 24 19 00-0253 EA 150 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Part Winding Starters..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	19,296.67 147.76	246.27
<b>26 24 19 00-0254 230 Volt Combination Starters With Fusible Switch, Reduced Volt</b> (26 24 19 00-0181) Note: Energy saver.		
26 24 19 00-0255 EA 7.5 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,874.19 76.84	128.06
26 24 19 00-0256 EA 15 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	20,024.35 94.56	157.61
26 24 19 00-0257 EA 30 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	22,111.98 109.34	182.24
26 24 19 00-0258 EA 50 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	33,480.82 121.16	201.94
26 24 19 00-0259 EA 100 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	45,662.22 147.76	246.27
26 24 19 00-0260 EA 200 HP, 230 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	61,967.54 189.14	315.22
<b>26 24 19 00-0261 480 Volt Combination Starters With Fusible Switch, Reduced Volt</b> (26 24 19 00-0181) Note: Energy saver.		
26 24 19 00-0262 EA 10 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	18,874.19 76.84	128.06





	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	26 24 19 00-0263	EA		25 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	20,024.35	157.61
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	94.56	
	26 24 19 00-0264	EA		50 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	22,111.98	182.24
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	109.34	
	26 24 19 00-0265	EA		100 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	33,480.82	201.94
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	121.16	
	26 24 19 00-0266	EA		200 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	45,662.22	246.27
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	147.76	
	26 24 19 00-0267	EA		400 HP, 480 Volt, Combination Starters With Fusible Switch, Reduced Volt, Energy Saver Solid State Starter With MCP	61,967.54	315.22
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	189.14	
	<b>26 24 19 00-0268</b>			<b>Starter Accessories</b> <small>(26 24 19)</small>		
	<b>26 24 19 00-0269</b>			<b>Starter Modifications</b> <small>(26 24 19 00-0268)</small>		
	26 24 19 00-0270	EA		Control Circuit Transformer 60 Hertz, Size 1, 2, 50 VA Standard	100.08	
	26 24 19 00-0271	EA		Control Circuit Transformer 60 Hertz, Size 3, 4, 150 VA Standard	329.86	
	26 24 19 00-0272	EA		Control Circuit Transformer 60 Hertz, Size 5, 6, 50 VA	471.53	
	26 24 19 00-0273	EA		Control Circuit Transformer 60 Hertz, All Sizes, Extra 50 VA	118.41	
	26 24 19 00-0274	EA		Control Circuit Transformer 60 Hertz, All Sizes, Extra 100 VA	167.04	
	26 24 19 00-0275	EA		Control Circuit Transformer 60 Hertz, All Sizes, Extra 150 VA	281.23	
	26 24 19 00-0276	EA		Overload Relay Heater Elements, 3 Per Starter	69.78	
	26 24 19 00-0277	EA		N.O. Overload Relay Alarm	59.21	
	26 24 19 00-0278	EA		Control Circuit Fuses, Primary/Secondary	110.73	
	26 24 19 00-0279	EA		Control Devices Type PB2 Mount On Device, 2 Unit Pushbutton	136.90	
	26 24 19 00-0280	EA		Control Devices Type PB2 Mount On Device, 3 Unit Pushbutton	267.76	
	26 24 19 00-0281	EA		Control Devices Type PB2 Mount On Device, 2 Or 3 Post Select	136.90	
	26 24 19 00-0282	EA		Control Devices Type PB2 Mount On Device, Individual Light Full V	157.03	
	26 24 19 00-0283	EA		Control Devices Type PB2 Mount On Device, Individual Light Transformer	189.25	
	26 24 19 00-0284	EA		Control Devices Type PB2 Mount On Device, Individual Light Push To	223.47	
	26 24 19 00-0285	EA		Blank Devices Panel	42.28	
	26 24 19 00-0286	EA		Oversize Or Special Color Starter	66.44	
	26 24 19 00-0287	EA		Mini Voltmeter/Ammeter With Current Transformer	583.20	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.87	
	26 24 19 00-0288	EA		Mini Elapsed Time Meters, Non Resettable	528.84	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.87	
	26 24 19 00-0289	EA		Panel Elapsed Time Meter, Resettable	785.17	
	26 24 19 00-0290	EA		Terminal Blocks, Side Mounted, Press Connection, Plug-In Press	66.44	
	26 24 19 00-0291	EA		Terminal Blocks, Side Mounted, Press Connection, Plug-In Screw	94.62	
	26 24 19 00-0292	EA		Terminal Blocks, Front Mounted, Press Connection, Standard	66.44	
	26 24 19 00-0293	EA		Terminal Blocks, Front Mounted, Press Connection, Plug-In	94.62	
	26 24 19 00-0294	EA		Terminal Blocks, Front Mounted, Press Connection, Screw-Type Utility	94.62	
	26 24 19 00-0295	EA		Terminal Blocks, Front Mounted, Press Connection, Plug-In Screw Type	136.90	
	26 24 19 00-0296	EA		MOR - A Solid State Modular Overload Relay	340.24	
	26 24 19 00-0297	EA		Heater Module	42.34	
	26 24 19 00-0298	EA		LAM - Long Acceleration Module	263.03	
	26 24 19 00-0299	EA		JAM - Jam Protection Module	301.52	
	26 24 19 00-0300	EA		PUM - Phase Unbalance Module	572.25	
	26 24 19 00-0301	EA		ULM - Underload Module	274.58	
	26 24 19 00-0302	EA		Wiring To Common Control Circuit Transformer	60.30	
	26 24 19 00-0303	EA		Handle Operator Separable Source Control Circuit	112.91	
	26 24 19 00-0304	EA		Type SIS Control Wire	47.47	
	26 24 19 00-0305	EA		Ring Or Spade Terminals Control	60.30	
	26 24 19 00-0306	EA		Ring Terminals Power	60.30	
	26 24 19 00-0307	EA		14 Gauge Control Wire	47.47	
	26 24 19 00-0308	EA		Wiremakers	60.30	
	26 24 19 00-0309	EA		Wiring Diagram On Door	35.93	
	26 24 19 00-0310	EA		Special Color Or Type Control Wire	43.62	
	26 24 19 00-0311	EA		Current Transformer 12.5 VA	342.58	
	26 24 19 00-0312	EA		Ground Fault Relay-Instant Non-Adjust, Size 1 Thru 4	1,094.46	
	26 24 19 00-0313	EA		Ground Fault Relay-Instant Non-Adjust, Size 5 Thru 6	1,231.75	
	<b>26 24 19 00-0314</b>			<b>Control Relays And Special Components</b> <small>(26 24 19 00-0268)</small>		
	26 24 19 00-0315	EA		Control Relays, 600 Volt, 2 Pole	721.90	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	8.87	
	26 24 19 00-0316	EA		Control Relays, 600 Volt, 4 Pole	846.30	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	14.78	
	26 24 19 00-0317	EA		Control Relays, 600 Volt, 6 Pole	980.54	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23.64	
	26 24 19 00-0318	EA		Control Relays, 600 Volt, 8 Pole	1,085.88	
				<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	29.55	
	26 24 19 00-0319	EA		Control Relays, Pneumatic Timer	977.86	
	26 24 19 00-0320	EA		Control Relays, Motor Driven Timer	2,548.15	
	26 24 19 00-0321	EA		Control Relays, 7 Day Time Switch	3,207.19	
	26 24 19 00-0322	EA		Control Relays, 24 Hour Time Switch	899.35	
	26 24 19 00-0323	EA		Control Relays, Phase Voltage	1,529.84	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0324 EA Control Relays, Two Circuit Alternator .....	2,141.30	
26 24 19 00-0325 EA Control Relays, Manual 120 Volt.....	209.37	
26 24 19 00-0326 EA Control Relays, Over-Current Relay .....	2,448.11	
26 24 19 00-0327 EA Control Relays, UV-Relay .....	2,073.45	
26 24 19 00-0328 EA Control Relays, Over-Current Relay .....	2,073.45	
26 24 19 00-0329 EA Control Relays, Teleductor .....	1,577.43	
26 24 19 00-0330 EA Control Relays, Current Transducer .....	4,242.16	
26 24 19 00-0331 EA Control Relays, Watt Transducer .....	8,484.32	
26 24 19 00-0332 EA Control Relays, Blank, Add For Each 1x.....	287.89	
26 24 19 00-0333 EA Control Relays, Fixed Mounted Back Pan, 20" Structure With Wireway .....	430.64	
26 24 19 00-0334 EA Control Relays, Fixed Mounted Back Pan, 24" Structure With Wireway .....	485.36	
26 24 19 00-0335 EA Control Relays, Fixed Mounted Back Pan, 280" Structure With Wireway .....	540.08	
26 24 19 00-0336 EA Control Relays, Fixed Mounted Back Pan, 20" Structure Without Wireway .....	485.36	
26 24 19 00-0337 EA Control Relays, Fixed Mounted Back Pan, 24" Structure Without Wireway .....	540.08	
26 24 19 00-0338 EA Control Relays, Fixed Mounted Back Pan, 2820" Structure Without Wireway .....	568.63	
<b>26 24 19 00-0339 Circuit Breaker Modifications/Accessories (26 24 19 00-0268)</b>		
26 24 19 00-0340 EA Circuit Breaker, Shunt Trip.....	231.19	
26 24 19 00-0341 EA Circuit Breaker, Auxiliary Switch .....	79.85	
26 24 19 00-0342 EA Circuit Breaker, Key Interlock.....	287.22	
26 24 19 00-0343 EA Circuit Breaker, GFR Ground Fault.....	1,324.04	
26 24 19 00-0344 EA Circuit Breaker, Seltronic Breaker.....	766.99	
<b>26 24 19 00-0345 Incoming Line And Feeder Circuit Breakers (26 24 19 00-0268)</b>		
26 24 19 00-0346 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100 .....	1,093.16	64.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.41	
26 24 19 00-0347 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150 .....	1,888.24	98.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.11	
26 24 19 00-0348 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/100 .....	1,807.23	64.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.41	
26 24 19 00-0349 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 100/150 .....	2,600.80	98.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.11	
26 24 19 00-0350 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 150/150 .....	3,328.40	98.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.11	
26 24 19 00-0351 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 250 .....	2,085.69	128.06
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	76.85	
26 24 19 00-0352 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 400 .....	3,353.13	137.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	82.76	
26 24 19 00-0353 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 600 .....	4,420.90	177.31
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	106.34	
26 24 19 00-0354 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 800 .....	5,227.75	270.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	162.59	
26 24 19 00-0355 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 1200 .....	7,414.75	408.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	245.48	
26 24 19 00-0356 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2000 .....	16,099.13	541.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	324.80	
26 24 19 00-0357 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 2500 .....	23,999.35	679.70
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	407.44	
26 24 19 00-0358 EA Incoming Line And Feeder Circuit Breaker, Standard Mold, Type A, B, 3000 .....	39,889.13	787.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	473.24	
26 24 19 00-0359 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	1,308.13	64.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.41	
26 24 19 00-0360 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150.....	2,097.19	98.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.11	
26 24 19 00-0361 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	1,308.13	64.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.41	
26 24 19 00-0362 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/50.....	2,097.19	98.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.11	
26 24 19 00-0363 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50/150.....	2,205.60	64.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	38.41	
26 24 19 00-0364 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 150/150.....	3,024.73	98.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.11	
26 24 19 00-0365 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 50.....	3,743.31	98.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.11	
26 24 19 00-0366 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 100.....	1,993.47	98.50
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.11	
26 24 19 00-0367 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 400.....	5,059.38	270.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	162.59	
26 24 19 00-0368 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-225 .....	5,059.38	270.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	162.59	
26 24 19 00-0369 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 125-400 .....	6,784.39	295.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.24	
26 24 19 00-0370 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-600 .....	8,461.32	344.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	206.78	
26 24 19 00-0371 EA Incoming Line And Feeder Circuit Breaker, Current Limiting Mold, Case Circuit Breakers, 300-800 .....	9,741.86	408.81
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	245.48	
<b>26 24 19 00-0372 Incoming Line And Feeder Fusible Switches (26 24 19 00-0268)</b>		
26 24 19 00-0373 EA Incoming Line And Feeder Fusible Switches, 30 Or 60 Amps .....	1,102.87	98.50
26 24 19 00-0374 EA Incoming Line And Feeder Fusible Switches, 30 Dual / 60 Dual.....	1,666.14	98.50



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0375 EA Incoming Line And Feeder Fusible Switches, 100 Amps .....	1,896.90	123.13
26 24 19 00-0376 EA Incoming Line And Feeder Fusible Switches, 200 Amps .....	3,060.15	147.76
26 24 19 00-0377 EA Incoming Line And Feeder Fusible Switches, 400 Amps .....	5,983.24	187.16
26 24 19 00-0378 EA Incoming Line And Feeder Fusible Switches, 600 Amps .....	8,384.87	246.27
26 24 19 00-0379 EA Incoming Line And Feeder Fusible Switches, 800 Amps .....	20,267.11	330.00
26 24 19 00-0380 EA Incoming Line And Feeder Fusible Switches, 1,200 Amps .....	22,906.56	458.06
<b>26 24 19 00-0381 Dry Type Distribution Transformers (26 24 19 00-0268)</b>		
26 24 19 00-0382 EA 500 VA, Phase 1, Dry Type Distribution Transformers .....	1,025.25	
26 24 19 00-0383 EA 750 VA, Phase 1, Dry Type Distribution Transformers .....	1,058.32	
26 24 19 00-0384 EA 1,000 VA, Phase 1, Dry Type Distribution Transformers .....	1,092.90	
26 24 19 00-0385 EA 1,500 VA, Phase 1, Dry Type Distribution Transformers .....	1,253.75	
26 24 19 00-0386 EA 2,000 VA, Phase 1, Dry Type Distribution Transformers .....	1,358.98	
26 24 19 00-0387 EA 3,000 VA, Phase 1, Dry Type Distribution Transformers .....	1,376.74	
26 24 19 00-0388 EA 5,000 VA, Phase 1, Dry Type Distribution Transformers .....	1,849.06	
26 24 19 00-0389 EA 7,500 VA, Phase 1, Dry Type Distribution Transformers .....	2,083.58	
26 24 19 00-0390 EA 9,000 VA, Phase 3, Dry Type Distribution Transformers .....	4,843.64	
26 24 19 00-0391 EA 10,000 VA, Phase 1, Dry Type Distribution Transformers .....	2,570.65	
26 24 19 00-0392 EA 15,000 VA, Phase 1, Dry Type Distribution Transformers .....	3,561.32	
26 24 19 00-0393 EA 15,000 VA, Phase 3, Dry Type Distribution Transformers .....	5,550.19	
26 24 19 00-0394 EA 20,000 VA, Phase 1, Dry Type Distribution Transformers .....	5,139.79	
26 24 19 00-0395 EA 30,000 VA, Phase 1, Dry Type Distribution Transformers .....	7,122.64	
26 24 19 00-0396 EA 30,000 VA, Phase 3, Dry Type Distribution Transformers .....	6,582.18	
26 24 19 00-0397 EA 45,000 VA, Phase 1, Dry Type Distribution Transformers .....	9,117.54	
<b>26 24 19 00-0398 Metering Equipment (26 24 19 00-0268)</b>		
26 24 19 00-0399 EA Metering Equipment, Voltmeter, Panel Type .....	648.27	
26 24 19 00-0400 EA Metering Equipment, Voltmeter, Switchboard Type .....	1,417.34	
26 24 19 00-0401 EA Metering Equipment, Ammeter, Panel .....	583.85	
26 24 19 00-0402 EA Metering Equipment, Ammeter, Switchboard Type .....	1,417.34	
26 24 19 00-0403 EA Metering Equipment, Voltmeter/Ammeter, Switch .....	787.17	
26 24 19 00-0404 EA Metering Equipment, Control Switch, 4 Circuits .....	835.50	
26 24 19 00-0405 EA Add For Additional Circuits .....	70.57	
26 24 19 00-0406 EA Metering Equipment, Indicating Wattmeter .....	2,923.25	
26 24 19 00-0407 EA Metering Equipment, Indicating Power Factor .....	3,062.17	
26 24 19 00-0408 EA Metering Equipment, Integrating Watt-hour .....	2,699.78	
26 24 19 00-0409 EA Add For Demand Attachment .....	461.91	
26 24 19 00-0410 EA Metering Equipment, Current Transformer, 800 Amp .....	807.32	
26 24 19 00-0411 EA Metering Equipment, Current Transformer, 1,000 Amp .....	1,393.18	
26 24 19 00-0412 EA Metering Equipment, Current Transformer, 2,000 Amp .....	1,622.69	
26 24 19 00-0413 EA Metering Equipment, Potential Transformer .....	1,352.91	
26 24 19 00-0414 EA Metering Equipment, Surge Arrester .....	1,455.59	
26 24 19 00-0415 EA Metering Equipment, Ground Detector System .....	1,113.33	
<b>26 24 19 00-0416 Current Limiting Reactors (26 24 19 00-0268)</b>		
26 24 19 00-0417 EA Current Limiting Reactors, 600 Amps .....	18,555.26	
26 24 19 00-0418 EA Current Limiting Reactors, 800 Amps .....	27,021.85	
26 24 19 00-0419 EA Current Limiting Reactors, 1,000 Amps .....	35,507.99	
26 24 19 00-0420 EA Current Limiting Reactors, 1,200 Amps .....	54,049.72	
<b>26 24 19 00-0421 Incoming Line Cable Space Requirements, Main Lugs Only (26 24 19 00-0268)</b>		
26 24 19 00-0422 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Screw .....	458.84	
26 24 19 00-0423 EA Incoming Line Cable Space Requirement, 350 MCC, 2 Crimp .....	458.84	
26 24 19 00-0424 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Screw .....	634.35	
26 24 19 00-0425 EA Incoming Line Cable Space Requirement, 350 MCC, 4 Crimp .....	1,160.85	
26 24 19 00-0426 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Screw .....	634.35	
26 24 19 00-0427 EA Incoming Line Cable Space Requirement, 600 MCC, 2 Crimp .....	809.85	
26 24 19 00-0428 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Screw .....	809.85	
26 24 19 00-0429 EA Incoming Line Cable Space Requirement, 600 MCC, 4 Crimp .....	1,158.74	
26 24 19 00-0430 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Screw .....	809.85	
26 24 19 00-0431 EA Incoming Line Cable Space Requirement, 750 MCC, 2 Crimp .....	1,158.74	
26 24 19 00-0432 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Screw .....	985.35	
26 24 19 00-0433 EA Incoming Line Cable Space Requirement, 750 MCC, 4 Crimp .....	3,194.99	
26 24 19 00-0434 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Screw .....	985.35	
26 24 19 00-0435 EA Incoming Line Cable Space Requirement, 1,000 MCC, 2 Crimp .....	1,158.74	
26 24 19 00-0436 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Screw .....	3,194.99	
26 24 19 00-0437 EA Incoming Line Cable Space Requirement, 1,000 MCC, 4 Crimp .....	3,194.99	
26 24 19 00-0438 EA Bus Duct Transition Pull Box .....	521.89	
26 24 19 00-0439 EA Throat And Transition To Substation .....	1,007.50	
26 24 19 00-0440 EA Service Entrance Label .....	218.19	
26 24 19 00-0441 EA Type W To 5 Star - 10" Transition .....	456.07	
26 24 19 00-0442 EA 600 Ampere Sub Feed Lugs On Main Bus .....	306.66	
<b>26 24 19 00-0443 Standard Structures And Structure Options/Modifications (26 24 19 00-0268)</b>		
26 24 19 00-0444 EA Standard Structure Add For Each Additional 4" Of Structure Width .....	144.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0445	EA		Standard Structure Add For 8" Vertical Wireway In Lieu Of 4".....	144.08	
26 24 19 00-0446	EA		Standard Structure Single Corner Section "L", 16" Depth.....	445.71	
26 24 19 00-0447	EA		Standard Structure Single Corner Section "L", 21" Depth.....	502.71	
26 24 19 00-0448	EA		Standard Structure Unused Space/Future Space.....	43.02	
26 24 19 00-0449	EA		Standard Structure NEMA 12 Dustproof.....	116.09	
26 24 19 00-0450	EA		Standard Structure Bottom Plate For NEMA 1 Gasket Enclosure.....	24.36	
26 24 19 00-0451	EA		Standard Structure 150 Watt Space.....	104.69	
26 24 19 00-0452	EA		Standard Structure Thermostat For Space Heater Control.....	373.38	
26 24 19 00-0453	EA		Standard Structure Rear Hinged Structure Door, 72" High.....	104.69	
26 24 19 00-0454	EA		Standard Structure NEMA 2 Drip Shield On Top Of MCC.....	241.22	
26 24 19 00-0455	EA		Standard Structure NEMA 3R N-Walk In Front Mounted.....	3,441.21	
26 24 19 00-0456	EA		Standard Structure NEMA 3R N-Walk In Back-to-back.....	3,977.53	
26 24 19 00-0457	EA		Standard Structure NEMA 3R Walk-In Aisle Front Mounted.....	3,981.38	
<b>26 24 19 00-0458 Installation Hours For Vertical Sections <small>(26 24 19 00-0268)</small></b>					
26 24 19 00-0459	EA		Install Vertical Section, 230/480 Volt, 1 Section, 600 Amps.....	591.02	295.52
26 24 19 00-0460	EA		Install Vertical Section, 230/480 Volt, 2 Section, 600 Amps.....	886.53	443.29
26 24 19 00-0461	EA		Install Vertical Section, 230/480 Volt, 3 Section, 600 Amps.....	985.08	492.53
26 24 19 00-0462	EA		Install Vertical Section, 230/480 Volt, 4 Section, 600 Amps.....	1,182.19	591.05
26 24 19 00-0463	EA		Install Vertical Section, 230/480 Volt, Bolt To Floor, 600 Amps.....	98.50	49.26
26 24 19 00-0464	EA		Install Vertical Section, 230/480 Volt, 1 Section, 800 Amps.....	591.02	295.52
26 24 19 00-0465	EA		Install Vertical Section, 230/480 Volt, 2 Section, 800 Amps.....	886.53	443.29
26 24 19 00-0466	EA		Install Vertical Section, 230/480 Volt, 3 Section, 800 Amps.....	985.08	492.53
26 24 19 00-0467	EA		Install Vertical Section, 230/480 Volt, 4 Section, 800 Amps.....	1,182.19	591.05
26 24 19 00-0468	EA		Install Vertical Section, 230/480 Volt, Bolt To Floor, 800 Amps.....	98.50	49.26
26 24 19 00-0469	EA		Install Vertical Section, 230/480 Volt, 1 Section, 1,200 Amps.....	689.56	344.77
26 24 19 00-0470	EA		Install Vertical Section, 230/480 Volt, 2 Section, 1,200 Amps.....	886.53	443.29
26 24 19 00-0471	EA		Install Vertical Section, 230/480 Volt, 3 Section, 1,200 Amps.....	1,182.19	591.05
26 24 19 00-0472	EA		Install Vertical Section, 230/480 Volt, 4 Section, 1,200 Amps.....	1,378.93	689.45
26 24 19 00-0473	EA		Install Vertical Section, 230/480 Volt, Bolt To Floor, 1,200 Amps.....	147.76	73.88
26 24 19 00-0474	EA		Install Vertical Section, 230/480 Volt, 1 Section, 1,600 Amps.....	788.06	394.03
26 24 19 00-0475	EA		Install Vertical Section, 230/480 Volt, 2 Section, 1,600 Amps.....	1,083.67	541.79
26 24 19 00-0476	EA		Install Vertical Section, 230/480 Volt, 3 Section, 1,600 Amps.....	1,378.93	689.45
26 24 19 00-0477	EA		Install Vertical Section, 230/480 Volt, 4 Section, 1,600 Amps.....	1,575.84	787.96
26 24 19 00-0478	EA		Install Vertical Section, 230/480 Volt, Bolt To Floor, 1,600 Amps.....	197.02	98.50
26 24 19 00-0479	EA		Install Vertical Section, 230/480 Volt, 1 Section, 2,000 Amps.....	788.06	394.03
26 24 19 00-0480	EA		Install Vertical Section, 230/480 Volt, 2 Section, 2,000 Amps.....	1,182.19	591.05
26 24 19 00-0481	EA		Install Vertical Section, 230/480 Volt, 3 Section, 2,000 Amps.....	1,477.45	738.71
26 24 19 00-0482	EA		Install Vertical Section, 230/480 Volt, 4 Section, 2,000 Amps.....	1,674.73	837.42
26 24 19 00-0483	EA		Install Vertical Section, 230/480 Volt, Bolt To Floor, 2,000 Amps.....	197.02	98.50
<b>26 24 19 00-0484 Motor Control Centers <small>(26 24 19)</small></b>					
<b>26 24 19 00-0485 2.4 KV Motor Control Centers <small>(26 24 19 00-0484)</small></b>					
26 24 19 00-0486	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 100 To 300 Hp.....	14,544.97	197.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>118.21</i>	
26 24 19 00-0487	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 400 Hp.....	14,544.97	197.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>118.21</i>	
26 24 19 00-0488	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 600 Hp.....	14,544.97	197.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>118.21</i>	
26 24 19 00-0489	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 700 Hp.....	14,594.25	221.64
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>132.99</i>	
26 24 19 00-0490	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,000 Hp.....	15,500.32	246.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>147.76</i>	
26 24 19 00-0491	EA		2,400 KV CL 11-202, Squirrel Cage Motor Control, 1,250 Hp.....	15,549.56	270.90
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>162.53</i>	
26 24 19 00-0492	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,500 Hp.....	15,598.81	295.52
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>177.31</i>	
26 24 19 00-0493	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 1,750 Hp.....	15,697.35	344.77
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>206.87</i>	
26 24 19 00-0494	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,000 Hp.....	15,795.85	394.03
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>236.42</i>	
26 24 19 00-0495	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,250 Hp.....	26,574.60	443.29
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>265.96</i>	
26 24 19 00-0496	EA		2.4 KV CL 11-202, Squirrel Cage Motor Control, 2,500 Hp.....	28,525.32	492.53
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>295.52</i>	
26 24 19 00-0497	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 100 Hp.....	21,569.38	197.02
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>118.21</i>	
26 24 19 00-0498	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 150 Hp.....	22,471.36	211.79
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>127.08</i>	
26 24 19 00-0499	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 200 Hp.....	25,527.89	231.49
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>138.89</i>	
26 24 19 00-0500	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 300 Hp.....	28,413.59	246.27
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>147.76</i>	
26 24 19 00-0501	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 400 Hp.....	30,915.85	285.67
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>171.41</i>	
26 24 19 00-0502	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 600 Hp.....	33,871.96	305.37
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>183.23</i>	
26 24 19 00-0503	EA		2.4 KV CL 13-202, Wound Rotor Motor Control, 700 Hp.....	36,826.32	325.07
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	<i>195.03</i>	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0504 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,000 Hp.....	40,331.92	354.63
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	212.78	
26 24 19 00-0505 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,250 Hp.....	46,931.38	394.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	236.42	
26 24 19 00-0506 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,500 Hp.....	50,846.02	418.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	251.21	
26 24 19 00-0507 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 1,750 Hp.....	77,633.85	492.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	295.52	
26 24 19 00-0508 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,000 Hp.....	82,717.72	541.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	325.10	
26 24 19 00-0509 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,250 Hp.....	87,143.75	591.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	354.66	
26 24 19 00-0510 EA 2.4 KV CL 13-202, Wound Rotor Motor Control, 2,500 Hp.....	94,889.94	640.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	384.24	
26 24 19 00-0511 EA 2.4 KV CL 14-202, Synchronous Motor Control, 100 To 300 Hp.....	20,352.48	197.02
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	118.21	
26 24 19 00-0512 EA 2.4 KV CL 14-202, Synchronous Motor Control, 400 Hp.....	20,401.76	221.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	132.99	
26 24 19 00-0513 EA 2.4 KV CL 14-202, Synchronous Motor Control, 600 Hp.....	20,450.98	246.27
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	147.76	
26 24 19 00-0514 EA 2.4 KV CL 14-202, Synchronous Motor Control, 700 Hp.....	20,500.22	270.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	162.53	
26 24 19 00-0515 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,000 Hp.....	20,552.94	295.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.31	
26 24 19 00-0516 EA 2,400 Volt CL 14-202, Synchronous Motor Control, 1,250 HP.....	20,602.24	320.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	192.10	
26 24 19 00-0517 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,500 Hp.....	20,651.48	344.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	206.87	
26 24 19 00-0518 EA 2.4 KV CL 14-202, Synchronous Motor Control, 1,750 Hp.....	20,848.45	443.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	265.96	
26 24 19 00-0519 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,000 Hp.....	35,492.60	492.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	295.52	
26 24 19 00-0520 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,250 Hp.....	35,591.19	541.79
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	325.10	
26 24 19 00-0521 EA 2.4 KV CL 14-202, Synchronous Motor Control, 2,500 Hp.....	37,531.50	591.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	354.66	
26 24 19 00-0522 EA Add For Reversing Starters, 100 To 700 HP.....	8,003.84	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.11	
26 24 19 00-0523 EA Add For Reversing Starters, 1,000 To 1,500 Hp.....	8,246.18	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.11	
26 24 19 00-0524 EA Add For Reversing Starters, 1,750 To 2,500 HP.....	12,616.96	
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	59.11	
<b>26 24 19 00-0525 4.8 KV Motor Control Centers <small>(26 24 19 00-0484)</small></b>		
26 24 19 00-0526 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 100 To 600 HP.....	15,841.15	295.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.31	
26 24 19 00-0527 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 700 HP.....	15,890.45	320.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	192.10	
26 24 19 00-0528 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,000 HP.....	15,939.69	344.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	206.87	
26 24 19 00-0529 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,250 HP.....	15,988.97	369.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	221.65	
26 24 19 00-0530 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,500 HP.....	16,886.38	394.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	236.42	
26 24 19 00-0531 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 1,750 HP.....	16,935.69	418.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	251.21	
26 24 19 00-0532 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,000 HP.....	16,984.85	443.29
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	265.96	
26 24 19 00-0533 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,250 HP.....	17,034.19	467.91
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	280.76	
26 24 19 00-0534 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 2,500 HP.....	17,083.40	492.53
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	295.52	
26 24 19 00-0535 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,000 HP.....	28,916.26	640.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	384.24	
26 24 19 00-0536 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 3,500 HP.....	29,014.38	689.45
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	413.68	
26 24 19 00-0537 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,000 HP.....	30,956.41	738.71
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	443.24	
26 24 19 00-0538 EA 4.8 KV CL 11-202, Squirrel Cage Motor Control, 4,500 HP.....	31,054.80	787.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	472.75	
26 24 19 00-0539 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 100 HP.....	22,012.17	295.52
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	177.31	
26 24 19 00-0540 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 150 HP.....	22,303.81	320.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	192.10	
26 24 19 00-0541 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 200 HP.....	26,005.46	344.77
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	206.87	
26 24 19 00-0542 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 300 HP.....	28,902.24	369.40
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	221.65	
26 24 19 00-0543 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 400 HP.....	31,374.87	394.03
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	236.42	
26 24 19 00-0544 EA 4.8 KV CL 13-202, Wound Rotor Motor Control, 600 HP.....	34,340.91	418.66
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	251.21	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 24 Switchboards And Panelboards**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
26 24	19 00-0545	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	37,125.06 265.96	443.29	
26 24	19 00-0546	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	40,800.85 280.76	467.91	
26 24	19 00-0547	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	47,254.76 295.52	492.53	
26 24	19 00-0548	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	51,641.92 310.31	517.16	
26 24	19 00-0549	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	56,078.35 339.86	566.42	
26 24	19 00-0550	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	59,743.72 354.66	591.05	
26 24	19 00-0551	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	63,201.21 369.40	615.67	
26 24	19 00-0552	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	68,036.90 384.24	640.40	
26 24	19 00-0553	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	107,816.09 472.75	787.96	
26 24	19 00-0554	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	119,893.51 502.42	837.42	
26 24	19 00-0555	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	144,096.03 531.92	886.56	
26 24	19 00-0556	EA	4.8 KV CL 13-202, Wound Rotor Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	152,413.50 531.92	886.56	
26 24	19 00-0557	EA	4.8 KV CL 14-202, Synchronous Motor Control, 100 To 600 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,743.74 206.87	344.77	
26 24	19 00-0558	EA	4.8 KV CL 14-202, Synchronous Motor Control, 700 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,793.02 221.65	369.40	
26 24	19 00-0559	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,842.24 236.42	394.03	
26 24	19 00-0560	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	21,891.55 251.21	418.66	
26 24	19 00-0561	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,765.18 265.96	443.29	
26 24	19 00-0562	EA	4.8 KV CL 14-202, Synchronous Motor Control, 1,750 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,814.52 280.76	467.91	
26 24	19 00-0563	EA	4.8 KV CL 14-202, Synchronous Motor Control, 2,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,863.73 295.52	492.53	
26 24	19 00-0564	EA	4.8 KV CL 14-202, Synchronous Motor Control, 2,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,913.00 310.31	517.16	
26 24	19 00-0565	EA	4.8 KV CL 14-202, Synchronous Motor Control, 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	23,962.32 325.10	541.79	
26 24	19 00-0566	EA	4.8 KV CL 14-202, Synchronous Motor Control, 3,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	24,257.58 413.68	689.45	
26 24	19 00-0567	EA	4.8 KV CL 14-202, Synchronous Motor Control, 3,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39,144.05 443.24	738.71	
26 24	19 00-0568	EA	4.8 KV CL 14-202, Synchronous Motor Control, 4,000 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41,077.31 472.75	787.96	
26 24	19 00-0569	EA	4.8 KV CL 14-202, Synchronous Motor Control, 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41,077.31 472.75	787.96	
26 24	19 00-0570	EA	Add For Reversing Starters, 100 To 1,250 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,733.36 59.11		
26 24	19 00-0571	EA	Add For Reversing Starters, 1,500 To 2,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	10,029.39 59.11		
26 24	19 00-0572	EA	Add For Reversing Starters, 3,000 To 4,500 HP..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	15,368.47 59.11		
26 24	19 00-0573	<b>2.4/4.8 KV Motor Control Centers, Accessories</b> (26 24 19 00-0484)				
26 24	19 00-0574	EA	2.4/4.8 KV Load Break Disconnect Switch 600 Amp.....	12,658.06	197.02	
26 24	19 00-0575	EA	2.4/4.8 KV Load Break Disconnect Switch 1,200 Amp.....	15,204.25	295.52	
26 24	19 00-0576	EA	2.4/4.8 KV NEMA 3 Weather Resistant.....	4,992.31		
26 24	19 00-0577	EA	2.4/4.8 KV Space Heaters.....	179.03	14.78	
26 24	19 00-0578	EA	2.4/4.8 KV Potential Transformer Fused.....	1,446.31		
26 24	19 00-0579	EA	2.4/4.8 KV Current Transformer 600 Volt, 5 KVA.....	776.02		
26 24	19 00-0580	EA	2.4/4.8 KV Control Transformer 4 KVA Max.....	2,311.14		
26 24	19 00-0581	EA	2.4/4.8 KV Pushbuttons Each.....	148.01		
26 24	19 00-0582	EA	2.4/4.8 KV Selector Switch Each.....	490.56		
26 24	19 00-0583	EA	2.4/4.8 KV Indicating Light.....	148.01		
26 24	19 00-0584	EA	2.4/4.8 KV Push To Test Light.....	448.27		
26 24	19 00-0585	EA	2.4/4.8 KV AC Voltmeter, Switchboard Type.....	1,192.57		
26 24	19 00-0586	EA	2.4/4.8 KV AC Ammeter, Switchboard Type.....	1,192.57		
26 24	19 00-0587	EA	2.4/4.8 KV Power Factor Meter.....	3,567.14		
26 24	19 00-0588	EA	2.4/4.8 KV Watt Hr Meter, 2 Element Drawout.....	2,459.15		
26 24	19 00-0589	EA	2.4/4.8 KV Operation Counter.....	477.82	14.78	
26 24	19 00-0590	EA	2.4/4.8 KV Phase Failure Protection.....	3,443.62	49.26	
26 24	19 00-0591	EA	2.4/4.8 KV Ground Protection.....	6,587.26	24.63	
26 24	19 00-0592	EA	2.4/4.8 KV Synchronous Motor DC Protection.....	2,410.35	24.63	
26 24	19 00-0593	EA	2.4/4.8 KV Lightning Arresters.....	2,843.33	14.78	
26 24	19 00-0594	EA	2.4/4.8 KV Portable Lifting Mechanism.....	4,101.56		
26 24	19 00-0595	EA	2.4/4.8 KV Auxiliary Timing Relay.....	477.82	49.26	
26 24	19 00-0596	EA	2.4/4.8 KV Auxiliary Control Relay.....	349.34	49.26	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Switchboards And Panelboards</b>	<b>26 24</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 24 19 00-0597 Incoming Section And Feeder Air Circuit Breakers</b> <small>(26 24 19 00-0484)</small>		
<i>Note: 3 Pole. Includes structure.</i>		
26 24 19 00-0598 EA Incoming Section MCC, Air Circuit Breaker, 70 - 100 Amp, 14,000 Amp IC, 3-Pole, With Structure Included .....	1,118.88	295.24
26 24 19 00-0599 EA Incoming Section MCC, Air Circuit Breaker, 125 - 225 Amp, 22,000 Amp IC, 3-Pole, With Structure Included .....	1,941.46	522.60
26 24 19 00-0600 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 30,000 Amp IC, 3-Pole, With Structure Included .....	2,319.34	669.14
26 24 19 00-0601 EA Incoming Section MCC, Air Circuit Breaker, 125 - 600 Amp, 30,000 Amp IC, 3-Pole, With Structure Included .....	3,724.01	1,077.52
26 24 19 00-0602 EA Incoming Section MCC, Air Circuit Breaker, 125 - 1,200 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	4,382.02	1,185.27
26 24 19 00-0603 EA Incoming Section MCC, Air Circuit Breaker, 125 - 2,000 Amp, 30,000 Amp IC, 3-Pole, With Structure Included.....	5,662.53	1,314.57
26 24 19 00-0604 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 45,000 Amp IC, 3-Pole, With Structure Included .....	6,589.91	1,540.85
26 24 19 00-0605 EA Incoming Section MCC, Air Circuit Breaker, 125 - 400 Amp, 100,000 Amp IC, 3-Pole, With Structure Included.....	11,420.19	1,795.15
 <b>26 24 19 00-0606 Main Lugs Only</b> <small>(26 24 19 00-0484)</small>		
26 24 19 00-0607 EA 600 Amp Incoming Section, Main Lugs .....	887.17	377.13
26 24 19 00-0608 EA 800 Amp Incoming Section, Main Lugs .....	963.45	377.13
26 24 19 00-0609 EA 1,200 Amp Incoming Section, Main Lugs .....	1,350.31	592.64
26 24 19 00-0610 EA 2,000 Amp Incoming Section, Main Lugs .....	3,322.72	1,077.52
26 24 19 00-0611 EA 3,000 Amp Incoming Section, Main Lugs .....	5,054.54	1,562.40
26 24 19 00-0612 EA 4,000 Amp Incoming Section, Main Lugs .....	7,218.57	2,155.04
 <b>26 24 19 00-0613 Incoming Main Circuit Breaker Structure</b> <small>(26 24 19 00-0484)</small>		
<i>Note: Includes structure, main breaker, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.</i>		
26 24 19 00-0614 EA 225 Amp, Main Circuit Breaker Section .....	5,990.86	521.41
<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
<i>For NEMA 1 With Gaskets, Add</i>	97.00	
<i>For NEMA 12, Add</i>	245.00	
<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0615 EA 400 Amp, Main Circuit Breaker Section .....	12,718.17	669.78
<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
<i>For NEMA 1 With Gaskets, Add</i>	97.00	
<i>For NEMA 12, Add</i>	245.00	
<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0616 EA 600 Amp, Main Circuit Breaker Section .....	13,204.50	1,043.26
<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
<i>For NEMA 1 With Gaskets, Add</i>	97.00	
<i>For NEMA 12, Add</i>	245.00	
<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0617 EA 800 Amp, Main Circuit Breaker Section .....	18,762.64	1,043.26
<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
<i>For NEMA 1 With Gaskets, Add</i>	97.00	
<i>For NEMA 12, Add</i>	245.00	
<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0618 EA 1,200 Amp, Main Circuit Breaker Section .....	27,157.51	1,180.42
<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
<i>For NEMA 1 With Gaskets, Add</i>	97.00	
<i>For NEMA 12, Add</i>	245.00	
<i>For 20" Cabinet Depth, Add</i>	108.00	
 <b>26 24 19 00-0619 Incoming Fusible Main Disconnect Section</b> <small>(26 24 19 00-0484)</small>		
<i>Note: Includes structure, fuses, 42 KA bus bracing, 600 A tin plated copper bus, NEMA 1 enclosure, 15" cabinet depth, and 1/4" x 2" tin plated copper horizontal ground bus.</i>		
26 24 19 00-0620 EA 200 Amp, Fusible Main Disconnect Section.....	5,201.76	522.06
<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
<i>For NEMA 1 With Gaskets, Add</i>	97.00	
<i>For NEMA 12, Add</i>	245.00	
<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0621 EA 400 Amp, Fusible Main Disconnect Section.....	7,182.33	670.11
<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
<i>For NEMA 1 With Gaskets, Add</i>	97.00	
<i>For NEMA 12, Add</i>	245.00	
<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0622 EA 600 Amp, Fusible Main Disconnect Section.....	14,032.12	1,044.12
<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
<i>For NEMA 1 With Gaskets, Add</i>	97.00	
<i>For NEMA 12, Add</i>	245.00	
<i>For 20" Cabinet Depth, Add</i>	108.00	
26 24 19 00-0623 EA 800 Amp, Fusible Main Disconnect Section.....	16,312.18	1,044.12
<i>For 800 Amp Tin Plated Copper Bus, Add</i>	182.00	
<i>For 1,200 Amp Tin Plated Copper Bus, Add</i>	334.00	
<i>For NEMA 1 With Gaskets, Add</i>	97.00	
<i>For NEMA 12, Add</i>	245.00	
<i>For 20" Cabinet Depth, Add</i>	108.00	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0624 EA 1,200 Amp, Fusible Main Disconnect Section..... <i>For 800 Amp Tin Plated Copper Bus, Add</i> <i>For 1,200 Amp Tin Plated Copper Bus, Add</i> <i>For NEMA 1 With Gaskets, Add</i> <i>For NEMA 12, Add</i> <i>For 20" Cabinet Depth, Add</i>	22,974.35 182.00 334.00 97.00 245.00 108.00	1,181.50
<b>26 24 19 00-0625 Circuit Breaker Combination Starters</b> <small>(26 24 19 00-0484)</small>		
<b>26 24 19 00-0626 Class I, Type A</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0627 EA Size 1, Class I, Type A Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	932.44 124.71	218.74
26 24 19 00-0628 EA Size 2, Class I, Type A Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,084.24 138.14	218.74
26 24 19 00-0629 EA Size 3, Class I, Type A Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,573.04 185.78	310.32
26 24 19 00-0630 EA Size 4, Class I, Type A Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,557.89 244.89	408.38
26 24 19 00-0631 EA Size 5, Class I, Type A Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,574.12 306.11	510.75
<b>26 24 19 00-0632 Class I, Type B</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0633 EA Size 1, Class I, Type B Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	881.84 107.75	190.72
26 24 19 00-0634 EA Size 2, Class I, Type B Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,028.24 121.34	190.72
26 24 19 00-0635 EA Size 3, Class I, Type B Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,506.34 165.77	275.84
26 24 19 00-0636 EA Size 4, Class I, Type B Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,489.86 224.48	373.90
26 24 19 00-0637 EA Size 5, Class I, Type B Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,519.26 289.66	477.34
<b>26 24 19 00-0638 Class I, Type C</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0639 EA Size 1, Class I, Type C Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	928.05 97.60	176.71
26 24 19 00-0640 EA Size 2, Class I, Type C Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,084.07 114.63	176.71
26 24 19 00-0641 EA Size 3, Class I, Type C Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,609.77 158.46	263.99
26 24 19 00-0642 EA Size 4, Class I, Type C Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,599.42 219.01	365.28
26 24 19 00-0643 EA Size 5, Class I, Type C Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,620.71 280.61	468.72
<b>26 24 19 00-0644 Class II, Type B</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0645 EA Size 1, Class II, Type B Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	936.70 148.01	261.84
26 24 19 00-0646 EA Size 2, Class II, Type B Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,289.10 165.26	261.84
26 24 19 00-0647 EA Size 3, Class II, Type B Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,823.42 208.82	349.12
26 24 19 00-0648 EA Size 4, Class II, Type B Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,967.62 269.38	447.17
26 24 19 00-0649 EA Size 5, Class II, Type B Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,331.68 328.51	546.30
<b>26 24 19 00-0650 Class II, Type C</b> <small>(26 24 19 00-0625)</small>		
26 24 19 00-0651 EA Size 1, Class II, Type C Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,163.12 141.78	247.83
26 24 19 00-0652 EA Size 2, Class II, Type C Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,334.39 154.82	247.83
26 24 19 00-0653 EA Size 3, Class II, Type C Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,932.21 202.54	338.34
26 24 19 00-0654 EA Size 4, Class II, Type C Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,069.26 261.53	436.39
26 24 19 00-0655 EA Size 5, Class II, Type C Circuit Breaker Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,448.20 324.56	538.76
<b>26 24 19 00-0656 Fused Disconnect Combination Starter</b> <small>(26 24 19 00-0484)</small>		
<b>26 24 19 00-0657 Class I, Type A</b> <small>(26 24 19 00-0656)</small>		
26 24 19 00-0658 EA Size 1, Class I, Type A Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	852.31 121.34	201.50
26 24 19 00-0659 EA Size 2, Class I, Type A Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,281.47 165.26	275.84





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0660	EA		Size 3, Class I, Type A Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,026.92 215.51	358.82
26 24 19 00-0661	EA		Size 4, Class I, Type A Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,774.42 302.68	503.21
26 24 19 00-0662	EA		Size 5, Class I, Type A Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,830.16 384.83	641.12
<b>26 24 19 00-0663</b>			<b>Class I, Type B</b> <small>(26 24 19 00-0656)</small>		
26 24 19 00-0664	EA		Size 1, Class I, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	864.68 107.75	179.95
26 24 19 00-0665	EA		Size 2, Class I, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,165.12 148.01	246.75
26 24 19 00-0666	EA		Size 3, Class I, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,719.55 198.08	329.72
26 24 19 00-0667	EA		Size 4, Class I, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,867.14 286.57	476.26
26 24 19 00-0668	EA		Size 5, Class I, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,908.04 364.03	605.56
<b>26 24 19 00-0669</b>			<b>Class I, Type C</b> <small>(26 24 19 00-0656)</small>		
26 24 19 00-0670	EA		Size 1, Class I, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	912.39 100.89	168.09
26 24 19 00-0671	EA		Size 2, Class I, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,226.96 138.14	228.43
26 24 19 00-0672	EA		Size 3, Class I, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,864.31 192.41	317.87
26 24 19 00-0673	EA		Size 4, Class I, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,010.89 280.61	468.72
26 24 19 00-0674	EA		Size 5, Class I, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,646.07 359.17	599.10
<b>26 24 19 00-0675</b>			<b>Class II, Type B</b> <small>(26 24 19 00-0656)</small>		
26 24 19 00-0676	EA		Size 1, Class II, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,093.89 151.34	252.14
26 24 19 00-0677	EA		Size 2, Class II, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,411.63 188.38	314.63
26 24 19 00-0678	EA		Size 3, Class II, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,040.49 242.69	405.15
26 24 19 00-0679	EA		Size 4, Class II, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,308.36 328.51	546.30
26 24 19 00-0680	EA		Size 5, Class II, Type B Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,640.75 408.15	682.07
<b>26 24 19 00-0681</b>			<b>Class II, Type C</b> <small>(26 24 19 00-0656)</small>		
26 24 19 00-0682	EA		Size 1, Class II, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,132.60 141.78	237.06
26 24 19 00-0683	EA		Size 2, Class II, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,473.09 178.40	297.39
26 24 19 00-0684	EA		Size 3, Class II, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,160.65 232.22	386.83
26 24 19 00-0685	EA		Size 4, Class II, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,437.32 320.69	533.37
26 24 19 00-0686	EA		Size 5, Class II, Type C Fused Disconnect Combination Starter ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	5,764.38 396.15	660.52
<b>26 24 19 00-0687</b>			<b>Space Complete With Bus And Hardware</b> <small>(26 24 19 00-0484)</small>		
<b>26 24 19 00-0688</b>			<b>Circuit Breaker Type</b> <small>(26 24 19 00-0687)</small>		
26 24 19 00-0689	EA		Circuit Breaker Type, Size 1 Space Complete With Bus And Hardware.....	264.27	73.28
26 24 19 00-0690	EA		Circuit Breaker Type, Size 2 Space Complete With Bus And Hardware.....	264.27	73.28
26 24 19 00-0691	EA		Circuit Breaker Type, Size 3 Space Complete With Bus And Hardware.....	392.60	106.67
26 24 19 00-0692	EA		Circuit Breaker Type, Size 4 Space Complete With Bus And Hardware.....	466.97	140.08
26 24 19 00-0693	EA		Circuit Breaker Type, Size 5 Space Complete With Bus And Hardware.....	782.27	213.35
<b>26 24 19 00-0694</b>			<b>Fused Disconnect Type</b> <small>(26 24 19 00-0687)</small>		
26 24 19 00-0695	EA		Fused Disconnect Type, Size 1 Space Complete With Bus And Hardware.....	264.27	73.28
26 24 19 00-0696	EA		Fused Disconnect Type, Size 2 Space Complete With Bus And Hardware.....	351.09	106.67
26 24 19 00-0697	EA		Fused Disconnect Type, Size 3 Space Complete With Bus And Hardware.....	487.29	140.08
26 24 19 00-0698	EA		Fused Disconnect Type, Size 4 Space Complete With Bus And Hardware.....	838.95	213.35
26 24 19 00-0699	EA		Fused Disconnect Type, Size 5 Space Complete With Bus And Hardware.....	1,170.44	310.32
<b>26 24 19 00-0700</b>			<b>Blank Space For Future Expansion</b> <small>(26 24 19 00-0687)</small>		
			Note: Factory modified no labor costs.		
26 24 19 00-0701	EA		Blank Space For Future Expansion, Size 1 Factory Modified, No Crew Costs.....	118.27	
26 24 19 00-0702	EA		Blank Space For Future Expansion, Size 2 Factory Modified, No Crew Costs.....	118.27	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0703 EA Blank Space For Future Expansion, Size 3 Factory Modified, No Crew Costs .....	179.31	
26 24 19 00-0704 EA Blank Space For Future Expansion, Size 4 Factory Modified, No Crew Costs .....	179.31	
26 24 19 00-0705 EA Blank Space For Future Expansion, Size 5 Factory Modified, No Crew Costs .....	356.71	
<b>26 24 19 00-0706 Structure Combination Of Starters To 72" High (26 24 19 00-0687)</b>		
26 24 19 00-0707 EA Structure Combination Of Starters To 72" High .....	3,056.82	567.10
<b>26 24 19 00-0708 Motor Control Center Basic Distribution Section (26 24 19 00-0484)</b>		
26 24 19 00-0709 EA 20" Wide Basic Section With Vertical Wireway .....	5,159.31	1,476.85
For 20" Cabinet Depth, Add	108.00	
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For 1,600 Amp Tin Plated Copper Bus, Add	402.00	
For 2,000 Amp Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amp Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0710 EA 25"-35" Wide Basic Section (No Vertical Wireway) .....	5,159.31	1,476.85
For 20" Cabinet Depth, Add	108.00	
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For 1,600 Amp Tin Plated Copper Bus, Add	402.00	
For 2,000 Amp Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amp Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0711 EA 25" Wide Basic Section With 9" Wide Vertical Wireway .....	5,679.02	1,476.85
For 20" Cabinet Depth, Add	108.00	
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For 1,600 Amp Tin Plated Copper Bus, Add	402.00	
For 2,000 Amp Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amp Tin Plated Copper Vertical, Add	210.00	
26 24 19 00-0712 EA Corner Section .....	5,679.02	1,476.85
For 20" Cabinet Depth, Add	108.00	
For 800 Amp Tin Plated Copper Bus, Add	182.00	
For 1,200 Amp Tin Plated Copper Bus, Add	334.00	
For 1,600 Amp Tin Plated Copper Bus, Add	402.00	
For 2,000 Amp Tin Plated Copper Bus, Add	506.00	
For NEMA 1 With Gasket, Add	97.00	
For NEMA 12, Add	245.00	
For 600 Amp Tin Plated Copper Vertical, Add	210.00	
<b>26 24 19 00-0713 Motor Control Center Starters With HMCP Circuit Breaker (26 24 19 00-0484)</b>		
Note: Includes door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
<b>26 24 19 00-0714 FVNR Starters With HMCP Circuit Breaker (26 24 19 00-0713)</b>		
26 24 19 00-0715 EA Class 1, Type A, Size 1 FVNR Starters With HMCP Circuit Breaker .....	1,319.12	207.43
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	124.44	
26 24 19 00-0716 EA Class 1, Type A, Size 2 FVNR Starters With HMCP Circuit Breaker .....	1,468.16	230.05
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	138.02	
26 24 19 00-0717 EA Class 1, Type A, Size 3 FVNR Starters With HMCP Circuit Breaker .....	2,535.36	309.25
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	185.57	
26 24 19 00-0718 EA Class 1, Type A, Size 4 FVNR Starters With HMCP Circuit Breaker .....	3,672.89	407.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	244.67	
26 24 19 00-0719 EA Class 1, Type A, Size 5 FVNR Starters With HMCP Circuit Breaker .....	3,326.14	509.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	305.77	
26 24 19 00-0720 EA Class 1, Type A, Size 6 FVNR Starters With HMCP Circuit Breaker .....	19,397.89	509.56
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	305.77	
26 24 19 00-0721 EA Class 1, Type B, Size 1 FVNR Starters With HMCP Circuit Breaker .....	1,328.45	179.41
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	107.64	
26 24 19 00-0722 EA Class 1, Type B, Size 2 FVNR Starters With HMCP Circuit Breaker .....	1,498.23	202.04
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	121.22	
26 24 19 00-0723 EA Class 1, Type B, Size 3 FVNR Starters With HMCP Circuit Breaker .....	2,587.70	275.84
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	165.50	
26 24 19 00-0724 EA Class 1, Type B, Size 4 FVNR Starters With HMCP Circuit Breaker .....	3,671.43	373.90
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	224.36	
26 24 19 00-0725 EA Class 1, Type B, Size 5 FVNR Starters With HMCP Circuit Breaker .....	8,338.68	482.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	289.66	
26 24 19 00-0726 EA Class 1, Type B, Size 6 FVNR Starters With HMCP Circuit Breaker .....	19,529.56	482.73
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	289.66	
<b>26 24 19 00-0727 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker (26 24 19 00-0713)</b>		
26 24 19 00-0728 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker .....	2,104.67	259.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	155.71	
26 24 19 00-0729 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker .....	2,578.61	287.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	172.31	



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Switchboards And Panelboards</b>	<b>26 24</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 24 19 00-0730 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	4,239.87	385.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	231.56	
26 24 19 00-0731 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	7,276.83	510.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	306.11	
26 24 19 00-0732 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	13,110.03	638.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	383.00	
26 24 19 00-0733 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	2,133.21	224.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	134.47	
26 24 19 00-0734 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	2,628.86	252.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	151.62	
26 24 19 00-0735 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	4,311.06	345.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	207.22	
26 24 19 00-0736 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	7,291.15	467.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	280.61	
26 24 19 00-0737 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With HMCP Circuit Breaker.....	13,140.68	603.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	362.39	
<b>26 24 19 00-0738 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker (26 24 19 00-0713)</b>		
26 24 19 00-0739 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,303.37	259.58
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	155.71	
26 24 19 00-0740 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	3,268.77	287.15
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	172.31	
26 24 19 00-0741 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	6,151.38	385.96
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	231.56	
26 24 19 00-0742 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	8,374.99	510.21
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	306.11	
26 24 19 00-0743 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	16,746.27	638.32
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	383.00	
26 24 19 00-0744 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	2,331.91	224.13
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	134.47	
26 24 19 00-0745 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	3,319.02	252.68
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	151.62	
26 24 19 00-0746 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	6,222.58	345.34
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	207.22	
26 24 19 00-0747 EA Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	8,389.31	467.64
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	280.61	
26 24 19 00-0748 EA Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With HMCP Circuit Breaker.....	16,776.92	603.95
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	362.39	
<b>26 24 19 00-0749 Motor Control Center Starters With Fusible Disconnect (26 24 19 00-0484)</b>		
Note: Includes fuses, door, unit support pan, heater elements, and NEMA 1 with gasket, or NEMA 12 enclosure. Line voltages of 208 V, 240 V, 480 V, and 600 V.		
<b>26 24 19 00-0750 FVNR Starters With Fusible Disconnect (26 24 19 00-0749)</b>		
26 24 19 00-0751 EA Class 1, Type A, Size 1 FVNR Starters With Fusible Disconnect.....	1,068.14	202.25
26 24 19 00-0752 EA Class 1, Type A, Size 2 FVNR Starters With Fusible Disconnect.....	1,393.58	274.87
26 24 19 00-0753 EA Class 1, Type A, Size 3 FVNR Starters With Fusible Disconnect.....	2,312.67	358.17
26 24 19 00-0754 EA Class 1, Type A, Size 4 FVNR Starters With Fusible Disconnect.....	3,888.77	504.50
26 24 19 00-0755 EA Class 1, Type A, Size 5 FVNR Starters With Fusible Disconnect.....	7,772.36	641.34
26 24 19 00-0756 EA Class 1, Type A, Size 6 FVNR Starters With Fusible Disconnect.....	19,593.78	641.34
26 24 19 00-0757 EA Class 1, Type B, Size 1 FVNR Starters With Fusible Disconnect.....	1,086.83	179.30
26 24 19 00-0758 EA Class 1, Type B, Size 2 FVNR Starters With Fusible Disconnect.....	1,422.39	246.21
26 24 19 00-0759 EA Class 1, Type B, Size 3 FVNR Starters With Fusible Disconnect.....	2,375.71	330.15
26 24 19 00-0760 EA Class 1, Type B, Size 4 FVNR Starters With Fusible Disconnect.....	3,901.32	477.66
26 24 19 00-0761 EA Class 1, Type B, Size 5 FVNR Starters With Fusible Disconnect.....	7,769.25	606.75
26 24 19 00-0762 EA Class 1, Type B, Size 6 FVNR Starters With Fusible Disconnect.....	19,709.90	606.75
<b>26 24 19 00-0763 Two Speed 2-Winding (TS2W) With Fusible Disconnect (26 24 19 00-0749)</b>		
26 24 19 00-0764 EA Class 1, Type A, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	1,829.70	253.22
26 24 19 00-0765 EA Class 1, Type A, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,548.36	343.62
26 24 19 00-0766 EA Class 1, Type A, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	3,936.41	447.49
26 24 19 00-0767 EA Class 1, Type A, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	8,217.93	632.40
26 24 19 00-0768 EA Class 1, Type A, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	13,338.63	740.04
26 24 19 00-0769 EA Class 1, Type B, Size 1 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	1,870.04	224.13
26 24 19 00-0770 EA Class 1, Type B, Size 2 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	2,595.41	307.52
26 24 19 00-0771 EA Class 1, Type B, Size 3 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	4,020.12	413.12
26 24 19 00-0772 EA Class 1, Type B, Size 4 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	8,244.54	595.98
26 24 19 00-0773 EA Class 1, Type B, Size 5 Two Speed 2-Winding (TS2W) With Fusible Disconnect.....	13,353.62	697.91
<b>26 24 19 00-0774 Two Speed 1-Winding (TS1W) With Fusible Disconnect (26 24 19 00-0749)</b>		
26 24 19 00-0775 EA Class 1, Type A, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,129.08	253.22
26 24 19 00-0776 EA Class 1, Type A, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,249.12	343.62
26 24 19 00-0777 EA Class 1, Type A, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	5,867.79	447.49
26 24 19 00-0778 EA Class 1, Type A, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	8,620.64	632.40
26 24 19 00-0779 EA Class 1, Type A, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	16,235.70	740.04
26 24 19 00-0780 EA Class 1, Type B, Size 1 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	2,170.30	224.13
26 24 19 00-0781 EA Class 1, Type B, Size 2 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	3,296.17	307.52
26 24 19 00-0782 EA Class 1, Type B, Size 3 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....	5,951.50	413.12

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 24 Switchboards And Panelboards**

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
26 24 19 00-0783	EA	Class 1, Type B, Size 4 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....		8,647.24	595.98
26 24 19 00-0784	EA	Class 1, Type B, Size 5 Two Speed 1-Winding (TS1W) With Fusible Disconnect.....		16,250.69	697.91
<b>26 24 19 00-0785</b>		<b>Tin Plated Copper Bus Bar And Ground Bus Bar Splice Kit (26 24 19 00-0484)</b>			
		Note: Per section. Labor is included in basic distribution section.			
26 24 19 00-0786	EA	600 Amp Horizontal Tin Plated Copper Bus Kit.....		228.32	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		8.09	
26 24 19 00-0787	EA	800 Amp Horizontal Tin Plated Copper Bus Kit.....		279.54	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		8.09	
26 24 19 00-0788	EA	1,200 Amp Horizontal Tin Plated Copper Bus Kit.....		336.16	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.71	
26 24 19 00-0789	EA	1,600 Amp Horizontal Tin Plated Copper Bus Kit.....		436.84	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		9.71	
26 24 19 00-0790	EA	2,000 Amp Horizontal Tin Plated Copper Bus Kit.....		731.89	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		11.33	
26 24 19 00-0791	EA	1/4" x 2" Horizontal Tin Plated Copper Ground Bus Kit.....		131.08	
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.47	
<b>26 24 19 00-0792</b>		<b>Disconnect Switch For Motor Control Centers (26 24 19 00-0484)</b>			
<b>26 24 19 00-0793</b>		<b>3 Pole Circuit Breaker Disconnect For Motor Control Center (26 24 19 00-0792)</b>			
		Note: Includes door, unit support pan, inverse time (Thermal Magnetic) circuit breaker, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).			
26 24 19 00-0794	EA	150 Amp Rating, 15 To 100 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....		642.57	155.70
26 24 19 00-0795	EA	150 Amp Rating, 125 To 150 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....		1,043.15	172.41
26 24 19 00-0796	EA	225 Amp Rating, 70 To 225 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....		1,290.42	232.21
26 24 19 00-0797	EA	400 Amp Rating, 125 To 400 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....		2,076.75	306.02
26 24 19 00-0798	EA	600 Amp Rating, 300 To 600 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....		3,469.19	382.52
26 24 19 00-0799	EA	800 Amp Rating, 400 To 800 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....		3,913.71	382.52
26 24 19 00-0800	EA	1,200 Amp Rating, 600 To 1,200 Amp Trip Range, 3 Pole Circuit Breaker Disconnect.....		7,811.65	478.95
<b>26 24 19 00-0801</b>		<b>Fusible Disconnect Switch For Motor Control Center (26 24 19 00-0792)</b>			
		Note: Includes door, unit support pan, fuses and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Class 1 type A (no starters).			
26 24 19 00-0802	EA	30 Amp Switch Rating, Fusible Disconnect Switch With 30 Amp Fuse Clips.....		739.92	151.39
26 24 19 00-0803	EA	60 Amp Switch Rating, Fusible Disconnect Switch With 60 Amp Fuse Clips.....		876.36	206.35
26 24 19 00-0804	EA	100 Amp Switch Rating, Fusible Disconnect Switch With 100 Amp Fuse Clips.....		1,198.28	263.99
26 24 19 00-0805	EA	200 Amp Switch Rating, Fusible Disconnect Switch With 200 Amp Fuse Clips.....		2,217.59	378.21
26 24 19 00-0806	EA	400 Amp Switch Rating, Fusible Disconnect Switch With 400 Amp Fuse Clips.....		3,912.14	481.01
26 24 19 00-0807	EA	600 Amp Switch Rating, Fusible Disconnect Switch With 600 Amp Fuse Clips.....		8,892.93	481.01
26 24 19 00-0808	EA	800 Amp Switch Rating, Fusible Disconnect Switch With 800 Amp Fuse Clips.....		10,994.61	601.26
26 24 19 00-0809	EA	1,200 Amp Switch Rating, Fusible Disconnect Switch With 1,200 Amp Fuse Clips.....		16,208.54	601.26
<b>26 24 19 00-0810</b>		<b>Control Circuit Transformer (26 24 19 00-0484)</b>			
26 24 19 00-0811	EA	Control Circuit Transformer, Size 1 Factory Installed.....		63.10	
26 24 19 00-0812	EA	Control Circuit Transformer, Size 2 Factory Installed.....		63.10	
26 24 19 00-0813	EA	Control Circuit Transformer, Size 3 Factory Installed.....		121.52	
26 24 19 00-0814	EA	Control Circuit Transformer, Size 4 Factory Installed.....		121.52	
26 24 19 00-0815	EA	Control Circuit Transformer, Size 5 Factory Installed.....		168.82	
26 24 19 00-0816	EA	Control Circuit Fuse And Holder Small Dim, Dual Element Time Delay.....		48.61	12.20
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		8.09	
<b>26 24 19 00-0817</b>		<b>Cover Mounted Control Devices (26 24 19 00-0484)</b>			
26 24 19 00-0818	EA	Control Device, 2 Unit Push Button Station Cover Mounted.....		108.00	21.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		13.47	
26 24 19 00-0819	EA	Control Device, 2-3 Unit Selector Switch Cover Mounted.....		121.55	21.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.84	
26 24 19 00-0820	EA	Control Device, Pilot Light Cover Mounted.....		101.40	21.55
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		10.09	
26 24 19 00-0821	EA	Control Device, Hand-Off-Auto Switch Cover Mounted With Pilot Light.....		278.06	73.28
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		44.16	
26 24 19 00-0822	EA	Auxiliary Contact Add Per Starter.....		327.44	27.91
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		16.75	
<b>26 24 19 00-0823</b>		<b>Extra Interlocks (26 24 19 00-0484)</b>			
		Note: Per contact.			
26 24 19 00-0824	EA	Extra Interlocks, Class I, Type A Per Contact.....		70.57	14.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		10.09	
26 24 19 00-0825	EA	Extra Interlocks, Class I, Type B Per Contact.....		96.94	14.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		10.09	
26 24 19 00-0826	EA	Extra Interlocks, Class I, Type C Per Contact.....		107.19	14.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		8.42	
26 24 19 00-0827	EA	Extra Interlocks, Class II, Type B Per Contact.....		96.30	14.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		6.74	
26 24 19 00-0828	EA	Extra Interlocks, Class II, Type C Per Contact.....		101.35	14.00
		<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>		5.08	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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26 24 19 00-0829 Special Cabinet Provisions (2624 19 00-0484)  
 26 24 19 00-0830 EA Provisions For Bus Duct Entrance Special Cabinet Provisions..... 789.86

26 24 19 00-0831 Nameplate Requirements (26 24 19 00-0484)  
 26 24 19 00-0832 EA Special Cabinet Nameplate Requirements ..... 28.04

26 24 19 00-0833 Auxiliary Relays (26 24 19 00-0484)  
 26 24 19 00-0834 EA Industrial Control Relay, 10 Amp Class A600 With 2 Contacts..... 157.80 26.97  
*For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add* 16.18  
 26 24 19 00-0835 EA Timing Relay, Solid State, DPDT 0.1-10 Sec Variable, Off-Delay ..... 149.36 24.27  
*For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add* 16.18  
 26 24 19 00-0836 EA General Purpose Control Relay, 240 Volt AC, 10 Amp, With Base ..... 86.40 24.27  
*For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add* 16.18

26 24 19 00-0837 Motor Control Center Accessories (26 24 19 00-0484)

26 24 19 00-0838 Lighting Transformer With Circuit Breaker (26 24 19 00-0837)  
 Note: For 240 V, 480 V, or 600 V primary. Includes door, unit support pan, and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure for MCC only.  
 26 24 19 00-0839 EA 1 Phase, 5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker..... 4,617.16 344.16  
 26 24 19 00-0840 EA 1 Phase, 7.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker..... 4,800.48 357.93  
 26 24 19 00-0841 EA 1 Phase, 10 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker..... 5,251.51 385.47  
 26 24 19 00-0842 EA 1 Phase, 15 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker..... 6,592.40 412.99  
 26 24 19 00-0843 EA 1 Phase, 25 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker..... 8,849.08 440.53  
 26 24 19 00-0844 EA 1 Phase, 37.5 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker..... 10,864.39 495.59  
 26 24 19 00-0845 EA 1 Phase, 50 KVA, 120/240 Volt Secondary Lighting Transformer With Circuit Breaker..... 14,262.34 550.66  
 26 24 19 00-0846 EA 3 Phase, 10 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker..... 8,347.58 454.30  
 26 24 19 00-0847 EA 3 Phase, 15 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker..... 9,069.47 495.59  
 26 24 19 00-0848 EA 3 Phase, 25 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker..... 10,370.84 550.66  
 26 24 19 00-0849 EA 3 Phase, 30 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker..... 11,005.13 605.73  
 26 24 19 00-0850 EA 3 Phase, 37.5 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker..... 13,268.75 660.79  
 26 24 19 00-0851 EA 3 Phase, 45 KVA, 120/208 Volt Secondary Lighting Transformer With Circuit Breaker..... 13,695.33 715.86

26 24 19 00-0852 Bolt-On Lighting Panel (26 24 19 00-0837)  
 Note: Includes door, T-handle, unit support pan, neutral bar (10 KA IC RMS), and NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. For MCC only.  
 26 24 19 00-0853 EA 18 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt..... 1,978.33 560.75  
 26 24 19 00-0854 EA 30 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt..... 3,091.25 976.02  
 26 24 19 00-0855 EA 42 Circuit Bolt-On Lighting Panel, MLO, 1 Phase, 3 Wire, 120/240 Volt..... 4,109.63 1,320.50  
 26 24 19 00-0856 EA 18 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt..... 2,070.27 606.75  
 26 24 19 00-0857 EA 30 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt..... 3,049.72 955.22  
 26 24 19 00-0858 EA 42 Circuit Bolt-On Lighting Panel, MLO, 3 Phase, 4 Wire, 120/208 Volt..... 4,274.69 1,403.04  
 26 24 19 00-0859 EA 18 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt ..... 3,319.51 650.39  
 26 24 19 00-0860 EA 30 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt ..... 4,431.55 1,044.12  
 26 24 19 00-0861 EA 42 Circuit Bolt-On Lighting Panel, MCB, 1 Phase, 3 Wire, 120/240 Volt ..... 5,543.73 1,403.04  
 26 24 19 00-0862 EA 18 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt ..... 3,421.81 701.47  
 26 24 19 00-0863 EA 30 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt ..... 4,431.55 1,044.12  
 26 24 19 00-0864 EA 42 Circuit Bolt-On Lighting Panel, MCB, 3 Phase, 4 Wire, 120/208 Volt ..... 5,634.25 1,448.29

26 24 19 00-0865 Factory Installed Bolt-On Branch Circuit Breaker (26 24 19 00-0837)  
 Note: For MCC lighting panel only.  
 26 24 19 00-0866 EA 15 A / 1 Pole - 30 A / 1 Pole Bolt-On Branch Circuit Breaker ..... 13.28  
 26 24 19 00-0867 EA 15 A / 1 Pole - 30 A / 1 Pole (GFI) Bolt-On Branch Circuit Breaker ..... 243.42  
 26 24 19 00-0868 EA 15 A / 2 Pole - 50 A / 2 Pole Bolt-On Branch Circuit Breaker ..... 25.96  
 26 24 19 00-0869 EA 60 A / 2 Pole - 100 A / 2 Pole Bolt-On Branch Circuit Breaker ..... 59.77  
 26 24 19 00-0870 EA 15 A / 3 Pole - 50 A / 3 Pole Bolt-On Branch Circuit Breaker ..... 70.03  
 26 24 19 00-0871 EA 60 A / 3 Pole - 100 A / 3 Pole Bolt-On Branch Circuit Breaker ..... 106.26

26 24 19 00-0872 Blank Unit Door (BUD) (26 24 19 00-0837)  
 Note: With NEMA 1, NEMA 1 with gasket, or NEMA 12 enclosure. Factory installed.  
 26 24 19 00-0873 EA 6" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure..... 64.91  
 26 24 19 00-0874 EA 12" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure..... 77.90  
 26 24 19 00-0875 EA 18" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure..... 116.84  
 26 24 19 00-0876 EA 24" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure..... 155.79  
 26 24 19 00-0877 EA 30" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure..... 233.69  
 26 24 19 00-0878 EA 48" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure..... 272.63  
 26 24 19 00-0879 EA 72" High Blank Unit Door (BUD) With NEMA 1, NEMA 1 With Gasket, Or NEMA 12 Enclosure..... 311.58

26 25 Enclosed Bus Assemblies (26 20)  
 26 25 00 00-0001 Bus Ducts (26 25)

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 25 Enclosed Bus Assemblies**



MINOR	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0002	<b>Plug-In Bus Duct</b> <small>(26 25 00 00-0001)</small>		
	Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers with anchors and hardware support.		
26 25 00 00-0003	<b>600 Volt, 3-Phase, 3-Wire, Copper Conductors</b> <small>(26 25 00 00-0002)</small>		
26 25 00 00-0004	LF 225 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....	259.54	32.33
	For Up To 25, Add .....	64.89	
	For >25 To 50, Add .....	38.93	
	For >50 To 100, Add .....	19.47	
26 25 00 00-0005	LF 400 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....	366.47	32.33
	For Up To 25, Add .....	91.62	
	For >25 To 50, Add .....	54.97	
	For >50 To 100, Add .....	27.49	
26 25 00 00-0006	LF 600 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....	463.89	43.10
	For Up To 25, Add .....	115.97	
	For >25 To 50, Add .....	69.58	
	For >50 To 100, Add .....	34.79	
26 25 00 00-0007	LF 800 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors .....	639.14	43.10
	For Up To 25, Add .....	159.79	
	For >25 To 50, Add .....	95.87	
	For >50 To 100, Add .....	47.94	
26 25 00 00-0008	LF 1,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	674.33	53.87
	For Up To 25, Add .....	168.58	
	For >25 To 50, Add .....	101.15	
	For >50 To 100, Add .....	50.57	
26 25 00 00-0009	LF 1,350 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	937.70	53.87
	For Up To 25, Add .....	234.43	
	For >25 To 50, Add .....	140.66	
	For >50 To 100, Add .....	70.33	
26 25 00 00-0010	LF 1,600 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,096.54	56.57
	For Up To 25, Add .....	274.14	
	For >25 To 50, Add .....	164.48	
	For >50 To 100, Add .....	82.24	
26 25 00 00-0011	LF 2,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,333.75	58.19
	For Up To 25, Add .....	333.44	
	For >25 To 50, Add .....	200.06	
	For >50 To 100, Add .....	100.03	
26 25 00 00-0012	LF 2,500 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,644.71	61.42
	For Up To 25, Add .....	411.18	
	For >25 To 50, Add .....	246.71	
	For >50 To 100, Add .....	123.35	
26 25 00 00-0013	LF 3,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	1,899.18	71.65
	For Up To 25, Add .....	474.80	
	For >25 To 50, Add .....	284.88	
	For >50 To 100, Add .....	142.44	
26 25 00 00-0014	LF 4,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors.....	2,197.23	78.12
	For Up To 25, Add .....	549.31	
	For >25 To 50, Add .....	329.58	
	For >50 To 100, Add .....	164.79	
26 25 00 00-0015	<b>277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors</b> <small>(26 25 00 00-0002)</small>		
26 25 00 00-0016	LF 225 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	422.20	32.33
	For Up To 25, Add .....	105.55	
	For >25 To 50, Add .....	63.33	
	For >50 To 100, Add .....	31.67	
26 25 00 00-0017	LF 400 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	608.46	32.33
	For Up To 25, Add .....	152.12	
	For >25 To 50, Add .....	91.27	
	For >50 To 100, Add .....	45.63	
26 25 00 00-0018	LF 600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	687.97	43.10
	For Up To 25, Add .....	171.99	
	For >25 To 50, Add .....	103.20	
	For >50 To 100, Add .....	51.60	
26 25 00 00-0019	LF 800 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	873.95	43.10
	For Up To 25, Add .....	218.49	
	For >25 To 50, Add .....	131.09	
	For >50 To 100, Add .....	65.55	
26 25 00 00-0020	LF 1,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,065.51	53.87
	For Up To 25, Add .....	266.38	
	For >25 To 50, Add .....	159.83	
	For >50 To 100, Add .....	79.91	
26 25 00 00-0021	LF 1,350 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,379.23	53.87
	For Up To 25, Add .....	344.81	
	For >25 To 50, Add .....	206.88	
	For >50 To 100, Add .....	103.44	
26 25 00 00-0022	LF 1,600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	1,782.20	55.82
	For Up To 25, Add .....	445.55	
	For >25 To 50, Add .....	267.33	
	For >50 To 100, Add .....	133.67	
26 25 00 00-0023	LF 2,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors.....	2,145.30	58.19
	For Up To 25, Add .....	536.33	
	For >25 To 50, Add .....	321.80	
	For >50 To 100, Add .....	160.90	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0024 LF 2,500 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors ..... <i>For Up To 25, Add</i> <i>For &gt;25 To 50, Add</i> <i>For &gt;50 To 100, Add</i>	2,659.23 664.81 398.88 199.44	60.88
26 25 00 00-0025 LF 3,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors ..... <i>For Up To 25, Add</i> <i>For &gt;25 To 50, Add</i> <i>For &gt;50 To 100, Add</i>	3,069.82 767.46 460.47 230.24	71.65
26 25 00 00-0026 LF 4,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors ..... <i>For Up To 25, Add</i> <i>For &gt;25 To 50, Add</i> <i>For &gt;50 To 100, Add</i>	3,557.88 889.47 533.68 266.84	78.12
<b>26 25 00 00-0027 Cable Tap Boxes</b> <small>(26 25 00 00-0002)</small>		
<b>26 25 00 00-0028 600 Volt, 3-Phase, 3-Wire, Copper Conductors</b> <small>(26 25 00 00-0027)</small>		
26 25 00 00-0029 EA 225 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....	2,121.45	150.85
26 25 00 00-0030 EA 400 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....	2,193.12	150.85
26 25 00 00-0031 EA 600 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....	2,371.30	204.73
26 25 00 00-0032 EA 800 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....	2,523.91	204.73
26 25 00 00-0033 EA 1,000 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....	2,707.10	269.38
26 25 00 00-0034 EA 1,350 Amp Cable Tap Box, 600 Volt, 3 Phase, 3 Wire .....	2,966.02	269.38
<b>26 25 00 00-0035 277/480 Volt, 3-Phase, 4-Wire, 100% Neutral, Copper Conductors</b> <small>(26 25 00 00-0027)</small>		
26 25 00 00-0036 EA 225 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....	2,193.12	296.32
26 25 00 00-0037 EA 400 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....	2,383.66	296.32
26 25 00 00-0038 EA 600 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....	2,547.54	404.07
26 25 00 00-0039 EA 800 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....	2,862.69	404.07
26 25 00 00-0040 EA 1,000 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....	3,011.52	538.76
26 25 00 00-0041 EA 1,350 Amp Cable Tap Box 277/480 Volt, 3 Phase, 4 Wire .....	3,425.77	538.76
<b>26 25 00 00-0042 Bus Duct Plug-In Circuit Breaker</b> <small>(26 25 00 00-0002)</small>		
<b>26 25 00 00-0043 240 Volt, 3-Phase</b> <small>(26 25 00 00-0042)</small>		
26 25 00 00-0044 EA 60 Amp Bus Duct Circuit Breaker 240 Volt, 3 Phase Plug-in Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	957.30 58.95	107.76
26 25 00 00-0045 EA 100 Amp Bus Duct Circuit Breaker 240 Volt, 3 Phase Plug-in Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,901.54 75.67	107.76
<b>26 25 00 00-0046 600 Volt, 3-Phase</b> <small>(26 25 00 00-0042)</small>		
26 25 00 00-0047 EA 60 Amp Bus Duct Circuit Breaker 600 Volt, 3 Phase Plug-in Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,845.81 58.95	107.76
26 25 00 00-0048 EA 100 Amp Bus Duct Circuit Breaker 600 Volt, 3 Phase Plug-in Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,390.69 75.67	107.76
<b>26 25 00 00-0049 120/208 Volt, 3-Phase, 4-Wire</b> <small>(26 25 00 00-0042)</small>		
26 25 00 00-0050 EA 60 Amp Bus Duct Circuit Breaker 120/208 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,102.35 67.35	129.30
26 25 00 00-0051 EA 100 Amp Bus Duct Circuit Breaker 120/208 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,317.17 84.18	129.30
<b>26 25 00 00-0052 277/480 Volt, 3-Phase, 4-Wire</b> <small>(26 25 00 00-0042)</small>		
26 25 00 00-0053 EA 60 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,261.06 67.35	129.30
26 25 00 00-0054 EA 100 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,938.64 84.18	129.30
26 25 00 00-0055 EA 225 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,837.13 193.80	447.17
26 25 00 00-0056 EA 400 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	6,768.52 420.91	447.17
26 25 00 00-0057 EA 600 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,570.35 585.61	1,293.03
26 25 00 00-0058 EA 800 Amp Bus Duct Circuit Breaker 277/480 Volt, 3 Phase, 4 Wire Plug-in Circuit Breaker ..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	9,493.27 1,036.07	1,293.03
<b>26 25 00 00-0059 Bus Duct Plug-In Fusible Switch</b> <small>(26 25 00 00-0002)</small>		
<b>26 25 00 00-0060 240 Volt, 3-Pole, 3-Fuse</b> <small>(26 25 00 00-0059)</small>		
26 25 00 00-0061 EA 30 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	955.12	107.76
26 25 00 00-0062 EA 60 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	1,049.06	107.76
26 25 00 00-0063 EA 100 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	1,449.62	129.30
26 25 00 00-0064 EA 200 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	2,446.45	258.61
26 25 00 00-0065 EA 400 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	6,180.07	581.86
26 25 00 00-0066 EA 600 Amp Bus Duct Fusible Switch 240 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	9,241.24	1,012.87



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 25 00 00-0067</b> <b>600 Volt, 3-Pole, 3-Fuse</b> <small>(26 25 00 00-0059)</small>		
26 25 00 00-0068 EA 30 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	992.97	118.52
26 25 00 00-0069 EA 60 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	1,084.53	118.52
26 25 00 00-0070 EA 100 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	1,461.56	118.52
26 25 00 00-0071 EA 200 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	2,506.62	247.83
26 25 00 00-0072 EA 400 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	6,151.28	560.31
26 25 00 00-0073 EA 600 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	9,445.32	1,077.52
26 25 00 00-0074 EA 800 Amp Bus Duct Fusible Switch 600 Volt, 3 Phase Plug-in Fusible Switch, 3 Fuses.....	15,493.60	1,400.77
<b>26 25 00 00-0075</b> <b>120/208 Volt, 4-pole, 3 Fuse</b> <small>(26 25 00 00-0059)</small>		
26 25 00 00-0076 EA 30 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,105.38	140.08
26 25 00 00-0077 EA 60 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,186.96	140.08
26 25 00 00-0078 EA 100 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,604.87	140.08
26 25 00 00-0079 EA 200 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	2,720.66	290.93
26 25 00 00-0080 EA 400 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	6,782.12	646.51
26 25 00 00-0081 EA 600 Amp Bus Duct Fusible Switch 120/208 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	9,871.10	991.32
<b>26 25 00 00-0082</b> <b>277/480 Volt, 4-pole, 3-Fuse</b> <small>(26 25 00 00-0059)</small>		
26 25 00 00-0083 EA 30 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,141.88	140.08
26 25 00 00-0084 EA 60 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,223.46	118.85
26 25 00 00-0085 EA 100 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	1,712.20	161.63
26 25 00 00-0086 EA 200 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	2,835.41	290.93
26 25 00 00-0087 EA 400 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	6,782.12	646.51
26 25 00 00-0088 EA 600 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	9,871.10	991.32
26 25 00 00-0089 EA 800 Amp Bus Duct Fusible Switch 277/480 Volt, 4 Phase Plug-in Fusible Switch, 3 Fuses.....	15,628.97	1,314.57
<b>26 25 00 00-0090</b> <b>Feeder Bus Duct</b> <small>(26 25 00 00-0001)</small>		
Note: Based on an average of 100' horizontal run with a 15' maximum mounting height. Each 100' of bus duct includes 2 elbows, 1 end cap, and switchboard stub. Excludes hangers and hardware support.		
<b>26 25 00 00-0091</b> <b>600 Volt, 3 Phase, 3 Wire, Ventilated Low Impedance</b> <small>(26 25 00 00-0090)</small>		
Note: Copper conductors.		
26 25 00 00-0092 LF 800 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	766.10	45.26
For Up To 25, Add	191.53	
For >25 To 50, Add	114.92	
For >50 To 100, Add	57.46	
26 25 00 00-0093 LF 1,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	776.58	45.26
For Up To 25, Add	194.15	
For >25 To 50, Add	116.49	
For >50 To 100, Add	58.24	
26 25 00 00-0094 LF 1,350 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	1,016.17	45.26
For Up To 25, Add	254.04	
For >25 To 50, Add	152.43	
For >50 To 100, Add	76.21	
26 25 00 00-0095 LF 1,600 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	1,220.32	45.26
For Up To 25, Add	305.08	
For >25 To 50, Add	183.05	
For >50 To 100, Add	91.52	
26 25 00 00-0096 LF 2,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	1,491.49	45.26
For Up To 25, Add	372.87	
For >25 To 50, Add	223.72	
For >50 To 100, Add	111.86	
26 25 00 00-0097 LF 3,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	2,035.32	107.76
For Up To 25, Add	508.83	
For >25 To 50, Add	305.30	
For >50 To 100, Add	152.65	
26 25 00 00-0098 LF 4,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	2,813.10	107.76
For Up To 25, Add	703.28	
For >25 To 50, Add	421.97	
For >50 To 100, Add	210.98	
26 25 00 00-0099 LF 5,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	3,328.24	107.76
For Up To 25, Add	832.06	
For >25 To 50, Add	499.24	
For >50 To 100, Add	249.62	
26 25 00 00-0100 LF 6,000 Amp Bus Duct 600 Volt, 3 Phase, 3 Wire Copper Conductors, With Supports.....	4,099.45	107.76
For Up To 25, Add	1,024.86	
For >25 To 50, Add	614.92	
For >50 To 100, Add	307.46	
<b>26 25 00 00-0101</b> <b>277/480 Volt, 3 Phase, 4 Wire, Half Neutral, Ventilated</b> <small>(26 25 00 00-0090)</small>		
Note: Low impedance, copper conductors.		
26 25 00 00-0102 LF 800 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	878.25	48.48
For Up To 25, Add	219.56	
For >25 To 50, Add	131.74	
For >50 To 100, Add	65.87	
26 25 00 00-0103 LF 1,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports.....	892.04	48.48
For Up To 25, Add	223.01	
For >25 To 50, Add	133.81	
For >50 To 100, Add	66.90	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 25 00 00-0104 LF 1,350 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	1,147.76	48.48
For Up To 25, Add	286.94	
For >25 To 50, Add	172.16	
For >50 To 100, Add	86.08	
26 25 00 00-0105 LF 1,600 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	1,360.60	48.48
For Up To 25, Add	340.15	
For >25 To 50, Add	204.09	
For >50 To 100, Add	102.05	
26 25 00 00-0106 LF 2,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	1,643.59	48.48
For Up To 25, Add	410.90	
For >25 To 50, Add	246.54	
For >50 To 100, Add	123.27	
26 25 00 00-0107 LF 3,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	2,525.50	82.97
For Up To 25, Add	631.38	
For >25 To 50, Add	378.83	
For >50 To 100, Add	189.41	
26 25 00 00-0108 LF 4,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	3,167.51	82.97
For Up To 25, Add	791.88	
For >25 To 50, Add	475.13	
For >50 To 100, Add	237.56	
26 25 00 00-0109 LF 5,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	3,747.89	154.09
For Up To 25, Add	936.97	
For >25 To 50, Add	562.18	
For >50 To 100, Add	281.09	
26 25 00 00-0110 LF 6,000 Amp Bus Duct 277/480 Volt, 3 Phase, 4 Wire Copper Conductors, With Supports	4,622.14	154.09
For Up To 25, Add	1,155.54	
For >25 To 50, Add	693.32	
For >50 To 100, Add	346.66	

### 26 26 Power Distribution Units (26 20)

Note: Includes wiring connections and testing.

26 26 00 00-0001	<b>Liebert Precision Power Center</b> (26 26)		
	Note: With K20 Trans Spike Suppression Modules Lighting/ Surge Arrestors. Includes start-up.		
26 26 00 00-0002 EA	PDU 15 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC015C)	11,574.22	331.34
26 26 00 00-0003 EA	PDU 30 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC030C)	13,945.44	359.14
26 26 00 00-0004 EA	PDU 50 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC050C)	15,885.20	398.69
26 26 00 00-0005 EA	PDU 75 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC075C)	18,256.97	431.01
26 26 00 00-0006 EA	PDU 100 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC100C)	19,972.05	538.76
26 26 00 00-0007 EA	PDU 125 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC125C)	22,436.91	646.51
26 26 00 00-0008 EA	PDU 150 KVA, 208/480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC150C)	25,894.12	754.27
26 26 00 00-0009 EA	PDU 200 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC200C)	27,493.91	862.01
26 26 00 00-0010 EA	PDU 225 KVA, 480/600 Input Voltage, 120/208 Output Voltage (Liebert PPC225C)	28,861.16	969.77
26 26 00 00-0011 EA	Ex Panelboard 10-30 KVA	1,084.37	107.76
26 26 00 00-0012 EA	Ex Panelboard 50-125 KVA	1,601.35	134.69
26 26 00 00-0013 EA	Ex Panelboard 150-220 KVA	3,507.63	161.63
26 26 00 00-0014 EA	Removal And Reinstallation Of Power Distribution Unit	1,724.03	
	Note: Includes disconnection / reconnection of branch circuits, storage and cleaning.		
26 26 00 00-0015 EA	Start-Up Liebert Power Distribution Unit Line Item Applies To A Relocation Only	1,293.03	

### 26 27 Low-Voltage Distribution Equipment (26 20)

#### 26 27 13 Electricity Metering (26 27)

##### 26 27 13 00-0001 Revenue Metering (26 27 13)

##### 26 27 13 00-0002 Meter Socket Base (26 27 13 00-0001)

	Note: NEMA 3R.		
26 27 13 00-0003 EA	100 Amp, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	270.49	70.04
26 27 13 00-0004 EA	100 Amp, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	288.18	70.04
26 27 13 00-0005 EA	200 Amp, 1 Phase, 3 Wire, 4 Terminal Meter Socket With Bypass	367.00	86.20
26 27 13 00-0006 EA	200 Amp, 1 Phase, 3 Wire, 5 Terminal Meter Socket With Bypass	372.03	86.20
26 27 13 00-0007 EA	200 Amp, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass And Jaw Release	746.41	96.98
26 27 13 00-0008 EA	320 Amp, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass, And Jaw Release	1,000.88	107.76
26 27 13 00-0009 EA	400 Amp, 3 Phase, 4 Wire, 7 Terminal Meter Socket With Bypass, And Jaw Release	2,530.76	118.52
26 27 13 00-0010 EA	Combination Motor And Current Transformer Cabinet, 15-30 A, 13 Terminal, Underground, With Test Switch And Transformer - Socket Base	2,748.78	538.76

##### 26 27 13 00-0011 Meter Device (26 27 13 00-0001)

	Note: Direct read, with 15 minute demand.		
26 27 13 00-0012 EA	100 To 200 Amp, 120 Volt, Or 240 Volt, 1 Phase, KWH Meter	282.31	21.55
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.25	
26 27 13 00-0013 EA	200 Amp, 120 Volt, Or 240 Volt, 3 Phase, KWH Meter	810.72	21.57
	For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	13.49	

##### 26 27 13 00-0014 Current Transformer Enclosure (26 27 13 00-0001)

26 27 13 00-0015 EA	Current Transformer Cover, Screwed, 18" x 24" x 9", NEMA 3R	551.62	140.08
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**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0016			120/240 Volt Meter Center And Main Breaker, Indoor Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0017			800 Amp Bus, 4 Jaw Sockets, 125 Amp Max., 2 Pole <small>(26 27 13 00-0016)</small>		
26 27 13 00-0018	EA		3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	1,107.81	67.35
26 27 13 00-0019	EA		4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	1,461.03	80.81
26 27 13 00-0020	EA		5 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	1,812.33	94.28
26 27 13 00-0021	EA		6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	2,100.68	107.76
26 27 13 00-0022	EA		7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	2,742.03	121.22
26 27 13 00-0023	EA		8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	2,959.77	134.69
26 27 13 00-0024	EA		10 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 125 Amp Max .....	3,452.51	161.63
26 27 13 00-0025			1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max., 2 Pole <small>(26 27 13 00-0016)</small>		
26 27 13 00-0026	EA		3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max .....	2,061.85	67.35
26 27 13 00-0027	EA		4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max .....	2,718.46	80.81
26 27 13 00-0028	EA		6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max .....	3,745.46	107.76
26 27 13 00-0029	EA		7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max .....	4,154.00	121.22
26 27 13 00-0030	EA		8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 200 Amp Max .....	5,230.37	134.69
26 27 13 00-0031			800 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole <small>(26 27 13 00-0016)</small>		
26 27 13 00-0032	EA		3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	1,699.76	94.28
26 27 13 00-0033	EA		4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	2,238.06	107.76
26 27 13 00-0034	EA		5 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	2,742.03	121.22
26 27 13 00-0035	EA		6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	3,226.90	134.69
26 27 13 00-0036	EA		7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	4,074.30	148.16
26 27 13 00-0037	EA		8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	4,272.99	161.63
26 27 13 00-0038	EA		10 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	5,299.96	188.56
26 27 13 00-0039			1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole <small>(26 27 13 00-0016)</small>		
26 27 13 00-0040	EA		3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	2,649.98	94.28
26 27 13 00-0041	EA		4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	3,478.31	107.76
26 27 13 00-0042	EA		6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	4,906.00	134.69
26 27 13 00-0043	EA		7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	5,257.30	148.16
26 27 13 00-0044	EA		8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	6,734.36	161.63
26 27 13 00-0045			120/208 Volt Meter Center And Main Breaker, Indoor Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0046			800 Amp Bus, 5 Jaw Sockets, 125 A Max., 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0047	EA		3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	1,203.44	80.81
26 27 13 00-0048	EA		4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	1,577.64	94.28
26 27 13 00-0049	EA		5 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	1,949.94	107.76
26 27 13 00-0050	EA		6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	2,265.01	121.22
26 27 13 00-0051	EA		7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	2,788.04	134.69
26 27 13 00-0052	EA		8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	3,005.78	148.16
26 27 13 00-0053	EA		10 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 125 Amp Max .....	3,708.42	175.10
26 27 13 00-0054			1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC, 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0055	EA		3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	2,165.12	80.81
26 27 13 00-0056	EA		4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	2,859.87	94.28
26 27 13 00-0057	EA		6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	4,134.92	121.22
26 27 13 00-0058	EA		7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	4,543.47	134.69
26 27 13 00-0059	EA		8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	5,505.39	148.16
26 27 13 00-0060			800 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0061	EA		3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	1,795.41	107.76
26 27 13 00-0062	EA		4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	2,341.35	121.22
26 27 13 00-0063	EA		5 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	2,902.54	134.69
26 27 13 00-0064	EA		6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	3,387.43	148.16
26 27 13 00-0065	EA		7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	4,273.03	161.63
26 27 13 00-0066	EA		8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	4,471.65	175.10
26 27 13 00-0067	EA		10 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	5,574.99	202.04
26 27 13 00-0068			1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole <small>(26 27 13 00-0045)</small>		
26 27 13 00-0069	EA		3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	2,772.34	107.76
26 27 13 00-0070	EA		4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	3,657.92	121.22
26 27 13 00-0071	EA		6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	5,257.34	148.16
26 27 13 00-0072	EA		7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	5,494.15	161.63
26 27 13 00-0073	EA		8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	6,990.31	175.10
26 27 13 00-0074			120/240 Volt Meter Center And Main Breaker, NEMA 3R Housing <small>(26 27 13 00-0001)</small>		
26 27 13 00-0075			800 Amp Bus, 4 Jaw Sockets, 10,000 AIC, 2 Pole <small>(26 27 13 00-0074)</small>		
26 27 13 00-0076	EA		3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC .....	1,107.81	67.35



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 13 00-0077 EA 4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC .....	1,461.03	80.81
26 27 13 00-0078 EA 6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC .....	2,100.68	107.76
26 27 13 00-0079 EA 7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC .....	2,742.03	121.22
26 27 13 00-0080 EA 8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 10,000 AIC .....	3,398.62	134.69
<b>26 27 13 00-0081 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC, 2 Pole</b> <small>(26 27 13 00-0074)</small>		
26 27 13 00-0082 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC .....	2,061.85	67.35
26 27 13 00-0083 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC .....	2,718.45	80.81
26 27 13 00-0084 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC .....	3,936.25	107.76
26 27 13 00-0085 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC .....	4,344.81	121.22
26 27 13 00-0086 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 10,000 AIC .....	5,230.37	134.69
<b>26 27 13 00-0087 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole</b> <small>(26 27 13 00-0074)</small>		
26 27 13 00-0088 EA 3 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	1,699.76	94.28
26 27 13 00-0089 EA 4 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	2,238.06	107.76
26 27 13 00-0090 EA 6 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	3,226.90	134.69
26 27 13 00-0091 EA 7 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	4,074.30	148.16
26 27 13 00-0092 EA 8 Meters And Main, 120/240 Volt, 800 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	4,272.99	161.63
<b>26 27 13 00-0093 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC, 2 Pole</b> <small>(26 27 13 00-0074)</small>		
26 27 13 00-0094 EA 3 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	2,649.99	94.28
26 27 13 00-0095 EA 4 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	3,478.31	107.76
26 27 13 00-0096 EA 6 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	4,906.00	134.69
26 27 13 00-0097 EA 7 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	5,257.30	148.16
26 27 13 00-0098 EA 8 Meters And Main, 120/240 Volt, 1,200 Amp Bus, 4 Jaw Sockets, 42,000 AIC .....	6,734.40	161.63
<b>26 27 13 00-0099 120/208 Volt Meter Center And Main Breaker, NEMA 3R Housing</b> <small>(26 27 13 00-0001)</small>		
<b>26 27 13 00-0100 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC, 2 Pole</b> <small>(26 27 13 00-0099)</small>		
26 27 13 00-0101 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	1,203.44	80.81
26 27 13 00-0102 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	1,577.64	94.28
26 27 13 00-0103 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	2,265.01	121.22
26 27 13 00-0104 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	2,978.85	134.69
26 27 13 00-0105 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	3,387.39	148.16
<b>26 27 13 00-0106 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC, 2 Pole</b> <small>(26 27 13 00-0099)</small>		
26 27 13 00-0107 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	2,165.11	80.81
26 27 13 00-0108 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	2,859.86	94.28
26 27 13 00-0109 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	3,944.12	121.22
26 27 13 00-0110 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	4,352.66	134.69
26 27 13 00-0111 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 10,000 AIC .....	5,505.35	148.16
<b>26 27 13 00-0112 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole</b> <small>(26 27 13 00-0099)</small>		
26 27 13 00-0113 EA 3 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	1,795.39	107.76
26 27 13 00-0114 EA 4 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	2,341.33	121.22
26 27 13 00-0115 EA 6 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	3,387.39	148.16
26 27 13 00-0116 EA 7 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	4,272.99	161.63
26 27 13 00-0117 EA 8 Meters And Main, 120/208 Volt, 800 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	4,471.65	175.10
<b>26 27 13 00-0118 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC, 2 Pole</b> <small>(26 27 13 00-0099)</small>		
26 27 13 00-0119 EA 3 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	2,772.32	107.76
26 27 13 00-0120 EA 4 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	3,657.90	121.22
26 27 13 00-0121 EA 6 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	5,257.30	148.16
26 27 13 00-0122 EA 7 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	5,494.15	161.63
26 27 13 00-0123 EA 8 Meters And Main, 120/208 Volt, 1,200 Amp Bus, 5 Jaw Sockets, 42,000 AIC .....	6,990.31	175.10
<b>26 27 13 00-0124 Watt/Hour Meters</b> <small>(26 27 13)</small>		
26 27 13 00-0125 EA Single Phase M-90 Meter, Socket, NEMA 3R Enclosure.....	1,165.33	64.65
26 27 13 00-0126 EA Three Phase M-90 Meter/Main Breaker Combination With Socket, NEMA 3R Enclosure .....	3,588.98	129.30
26 27 13 00-0127 EA Three Phase M-90 Meter In Line Secondary With Socket, NEMA 3R Enclosure .....	1,886.25	96.98
26 27 13 00-0128 EA Three Phase M-90 Meter, Primary Side Transformer Mount With Socket Totally Enclosed, NEMA 3R Enclosure .....	2,322.02	96.98
26 27 13 00-0129 EA Three Phase M-90 Meter, Primary Side Pole Mount With Socket, NEMA 3R Enclosure.....	1,950.26	96.98
26 27 13 00-0130 EA C.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure .....	1,328.90	89.43
26 27 13 00-0131 EA P.T. For M-90 Meter On Primary Side, NEMA 3R Enclosure.....	2,268.22	161.63
<b>26 27 13 00-0132 Watt/Hour Meter Systems</b> <small>(26 27 13)</small>		
Note: Includes NEMA 3R enclosure with C.T. and NEMA 3R C.T. enclosure. systems with main breakers include an additional NEMA 3R enclosure.		
<b>26 27 13 00-0133 Watt/Hour Meter System Without Main Breaker</b> <small>(26 27 13 00-0132)</small>		
26 27 13 00-0134 EA 400 Amp System; 200 Amp M-90 Meter And Enclosure.....	5,716.75	646.62

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 27 Low-Voltage Distribution Equipment**



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 27 13 00-0135	EA	600-800 Amp System; 200 Amp M-90 Meter And Enclosure.....	6,745.16	646.62
<b>26 27 13 00-0136</b>		<b>Watt/Hour Meter System With Main Breaker (26 27 13 00-0132)</b>		
26 27 13 00-0137	EA	400 Amp System; 400 Amp Main Breaker, 200 Amp M-90 Meter And Enclosure .....	10,232.00	646.62
26 27 13 00-0138	EA	600 Amp System; 600 Amp Main Breaker, 200 Amp M-90 Meter And Enclosure .....	12,474.51	646.62
26 27 13 00-0139	EA	800 Amp System; 800 Amp Main Breaker, 200 Amp M-90 Meter And Enclosure .....	13,425.54	646.62
<b>26 27 16</b>		<b>Electrical Cabinets And Enclosures (26 27)</b>		
		Note: Can be used as enclosure or pull/junction boxes.		
<b>26 27 16 00-0001</b>		<b>NEMA 1 Enclosures (26 27 16)</b>		
<b>26 27 16 00-0002</b>		<b>Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)</b>		
<b>26 27 16 00-0003</b>		<b>4" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)</b>		
26 27 16 00-0004	EA	6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	61.81	21.55
26 27 16 00-0005	EA	6" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	68.80	23.70
26 27 16 00-0006	EA	8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	75.84	25.86
26 27 16 00-0007	EA	8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	88.52	30.17
26 27 16 00-0008	EA	10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	95.81	32.33
26 27 16 00-0009	EA	10" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	103.47	34.48
26 27 16 00-0010	EA	12" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	103.29	34.48
26 27 16 00-0011	EA	12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	111.07	36.63
26 27 16 00-0012	EA	12" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	119.13	38.79
26 27 16 00-0013	EA	16" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	156.07	51.72
26 27 16 00-0014	EA	16" x 16" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	189.05	62.50
26 27 16 00-0015	EA	18" x 12" x 4" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	180.67	60.34
<b>26 27 16 00-0016</b>		<b>6" Depth, Hinged Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0002)</b>		
26 27 16 00-0017	EA	6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	76.19	25.86
26 27 16 00-0018	EA	6" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure .....	91.14	30.17
26 27 16 00-0019	EA	10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	109.49	36.63
26 27 16 00-0020	EA	10" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	117.41	38.79
26 27 16 00-0021	EA	12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	125.45	40.95
26 27 16 00-0022	EA	12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	133.74	43.10
26 27 16 00-0023	EA	16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	171.27	56.03
26 27 16 00-0024	EA	16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	208.80	68.96
26 27 16 00-0025	EA	18" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	201.69	66.81
26 27 16 00-0026	EA	18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	261.76	86.20
26 27 16 00-0027	EA	24" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	323.13	99.13
26 27 16 00-0028	EA	24" x 24" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	363.08	107.76
26 27 16 00-0029	EA	30" x 24" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	397.79	114.22
26 27 16 00-0030	EA	36" x 24" x 6" Hinged Cover, Galvanized Steel NEMA 1 Enclosure.....	427.12	118.52
<b>26 27 16 00-0031</b>		<b>Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0001)</b>		
<b>26 27 16 00-0032</b>		<b>3" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)</b>		
26 27 16 00-0033	EA	4" x 4" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	44.16	15.09
26 27 16 00-0034	EA	6" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	63.10	21.55
26 27 16 00-0035	EA	8" x 6" x 3" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	70.13	23.70
<b>26 27 16 00-0036</b>		<b>4" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)</b>		
26 27 16 00-0037	EA	4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	49.66	17.24
26 27 16 00-0038	EA	6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	61.70	21.55
26 27 16 00-0039	EA	6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	68.64	23.70
26 27 16 00-0040	EA	8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	75.67	25.86
26 27 16 00-0041	EA	8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	88.29	30.17
26 27 16 00-0042	EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	95.56	32.33
26 27 16 00-0043	EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	103.13	34.48
26 27 16 00-0044	EA	12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	102.91	34.48
26 27 16 00-0045	EA	12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	110.73	36.63
26 27 16 00-0046	EA	12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	118.73	38.79
26 27 16 00-0047	EA	16" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	156.07	51.72
26 27 16 00-0048	EA	16" x 16" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	193.83	64.65
26 27 16 00-0049	EA	18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	180.12	60.34
26 27 16 00-0050	EA	18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	232.87	77.58
26 27 16 00-0051	EA	24" x 24" x 4" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	324.49	96.98
<b>26 27 16 00-0052</b>		<b>6" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures (26 27 16 00-0031)</b>		
26 27 16 00-0053	EA	6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	75.98	25.86
26 27 16 00-0054	EA	8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	83.42	28.02
26 27 16 00-0055	EA	8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	96.17	32.33
26 27 16 00-0056	EA	10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	109.14	36.63
26 27 16 00-0057	EA	10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	117.05	38.79
26 27 16 00-0058	EA	12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	125.02	40.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0059 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	133.25	43.10
26 27 16 00-0060 EA 16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	171.27	56.03
26 27 16 00-0061 EA 16" x 16" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	210.53	68.96
26 27 16 00-0062 EA 18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	201.07	66.81
26 27 16 00-0063 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	260.91	86.20
26 27 16 00-0064 EA 24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	319.22	99.13
26 27 16 00-0065 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	361.28	107.76
26 27 16 00-0066 EA 30" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	388.41	114.22
26 27 16 00-0067 EA 36" x 24" x 6" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	419.86	118.52
<b>26 27 16 00-0068 8" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures</b> (26 27 16 00-0031)		
26 27 16 00-0069 EA 8" x 8" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	109.14	36.63
26 27 16 00-0070 EA 12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	146.88	47.41
26 27 16 00-0071 EA 16" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	186.78	60.34
26 27 16 00-0072 EA 16" x 16" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	232.24	75.43
26 27 16 00-0073 EA 18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	222.89	73.28
26 27 16 00-0074 EA 18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	275.91	90.52
26 27 16 00-0075 EA 24" x 12" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	309.66	103.44
26 27 16 00-0076 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	351.30	109.91
26 27 16 00-0077 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	398.16	118.52
26 27 16 00-0078 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	422.77	125.00
26 27 16 00-0079 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	442.60	129.30
26 27 16 00-0080 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	451.65	129.30
<b>26 27 16 00-0081 10" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures</b> (26 27 16 00-0031)		
26 27 16 00-0082 EA 18" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	251.97	81.89
26 27 16 00-0083 EA 18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	329.91	105.60
26 27 16 00-0084 EA 24" x 12" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	337.98	112.06
26 27 16 00-0085 EA 24" x 18" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	419.22	120.68
26 27 16 00-0086 EA 24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	478.35	133.61
26 27 16 00-0087 EA 30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	522.77	137.93
26 27 16 00-0088 EA 36" x 24" x 10" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	555.53	144.39
<b>26 27 16 00-0089 12" Depth, Screw Cover, Galvanized Steel NEMA 1 Enclosures</b> (26 27 16 00-0031)		
26 27 16 00-0090 EA 18" x 18" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	364.07	116.37
26 27 16 00-0091 EA 24" x 12" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	368.01	122.84
26 27 16 00-0092 EA 24" x 18" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	461.65	133.61
26 27 16 00-0093 EA 24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	522.68	146.54
26 27 16 00-0094 EA 30" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	577.60	153.00
26 27 16 00-0095 EA 36" x 24" x 12" Screw Cover, Galvanized Steel NEMA 1 Enclosure.....	607.73	159.47
<b>26 27 16 00-0096 NEMA 12 Enclosures</b> (26 27 16) Note: Dust-tight enclosures.		
<b>26 27 16 00-0097 Hinged Cover, Galvanized Steel NEMA 12 Enclosures</b> (26 27 16 00-0096)		
<b>26 27 16 00-0098 4" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures</b> (26 27 16 00-0097)		
26 27 16 00-0099 EA 4" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	73.11	17.24
26 27 16 00-0100 EA 6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	96.59	23.70
26 27 16 00-0101 EA 8" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	120.43	30.17
26 27 16 00-0102 EA 10" x 8" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	130.00	32.33
26 27 16 00-0103 EA 12" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	143.95	34.48
26 27 16 00-0104 EA 12" x 10" x 4" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	154.50	36.63
<b>26 27 16 00-0105 6" Depth, Hinged Cover, Galvanized Steel NEMA 12 Enclosures</b> (26 27 16 00-0097)		
26 27 16 00-0106 EA 6" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	106.73	25.86
26 27 16 00-0107 EA 8" x 6" x 6" Hinged Cover, Galvanized Steel NEMA 12 Enclosure.....	117.07	28.02
<b>26 27 16 00-0108 Screw Cover, Galvanized Steel NEMA 12 Enclosures</b> (26 27 16 00-0096)		
<b>26 27 16 00-0109 4" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures</b> (26 27 16 00-0108)		
26 27 16 00-0110 EA 4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	76.74	17.24
26 27 16 00-0111 EA 6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	97.91	23.70
26 27 16 00-0112 EA 8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	108.89	25.86
26 27 16 00-0113 EA 8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	125.72	30.17
26 27 16 00-0114 EA 10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	131.81	32.33
26 27 16 00-0115 EA 10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	148.50	34.48
26 27 16 00-0116 EA 12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	158.70	36.63
26 27 16 00-0117 EA 12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	174.97	38.79
<b>26 27 16 00-0118 6" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures</b> (26 27 16 00-0108)		
26 27 16 00-0119 EA 6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	113.39	25.86
26 27 16 00-0120 EA 8" x 6" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	125.83	28.02
26 27 16 00-0121 EA 8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	140.62	32.33

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0122 EA 10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	167.40	38.79
26 27 16 00-0123 EA 12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	183.69	43.10
26 27 16 00-0124 EA 16" x 14" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	247.67	56.03
26 27 16 00-0125 EA 18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	382.58	86.20
26 27 16 00-0126 EA 24" x 16" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	474.40	99.13
26 27 16 00-0127 EA 24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	527.08	107.76
<b>26 27 16 00-0128 8" Depth, Screw Cover, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0106)</b>		
26 27 16 00-0129 EA 24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	507.35	109.91
26 27 16 00-0130 EA 24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	568.92	118.52
26 27 16 00-0131 EA 30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	615.10	125.00
26 27 16 00-0132 EA 30" x 30" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	661.68	129.30
26 27 16 00-0133 EA 36" x 24" x 8" Screw Cover, Galvanized Steel NEMA 12 Enclosure.....	656.03	129.30
<b>26 27 16 00-0134 Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0096)</b>		
<b>26 27 16 00-0135 8" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0134)</b>		
26 27 16 00-0136 EA 60" x 48" x 8" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	1,566.87	175.10
<b>26 27 16 00-0137 10" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0134)</b>		
26 27 16 00-0138 EA 60" x 48" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	1,608.67	193.95
26 27 16 00-0139 EA 60" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	1,821.93	207.43
26 27 16 00-0140 EA 72" x 60" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	2,126.99	258.61
26 27 16 00-0141 EA 72" x 72" x 10" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	2,400.13	304.93
<b>26 27 16 00-0142 12" Depth, Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosures (26 27 16 00-0134)</b>		
26 27 16 00-0143 EA 60" x 48" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	1,868.03	304.93
26 27 16 00-0144 EA 60" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	2,056.52	323.26
26 27 16 00-0145 EA 72" x 60" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	2,301.15	344.80
26 27 16 00-0146 EA 72" x 72" x 12" Double Door, Floor Mounted, Galvanized Steel NEMA 12 Enclosure.....	2,483.96	344.80
<b>26 27 16 00-0147 NEMA 3 Enclosures (26 27 16)</b> Note: Can be used underground or encased in concrete.		
<b>26 27 16 00-0148 2" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)</b>		
26 27 16 00-0149 EA 4" x 4" x 2" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	243.32	75.43
<b>26 27 16 00-0150 3" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)</b>		
26 27 16 00-0151 EA 4" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	257.95	75.43
26 27 16 00-0152 EA 5" x 5" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	318.74	78.12
26 27 16 00-0153 EA 6" x 4" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	328.69	78.12
26 27 16 00-0154 EA 6" x 6" x 3" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	402.62	80.81
<b>26 27 16 00-0155 4" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)</b>		
26 27 16 00-0156 EA 4" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	316.04	78.12
26 27 16 00-0157 EA 5" x 5" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	342.08	78.12
26 27 16 00-0158 EA 6" x 4" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	356.22	80.81
26 27 16 00-0159 EA 6" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	436.19	80.81
26 27 16 00-0160 EA 8" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	477.93	86.20
26 27 16 00-0161 EA 8" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	513.74	91.59
26 27 16 00-0162 EA 10" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	532.76	91.59
26 27 16 00-0163 EA 10" x 8" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	624.84	94.28
26 27 16 00-0164 EA 12" x 6" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	674.72	96.98
26 27 16 00-0165 EA 12" x 12" x 4" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	908.92	107.76
<b>26 27 16 00-0166 6" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (26 27 16 00-0147)</b>		
26 27 16 00-0167 EA 6" x 6" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	459.59	83.50
26 27 16 00-0168 EA 8" x 6" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	572.68	94.28
26 27 16 00-0169 EA 8" x 8" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	663.02	96.98
26 27 16 00-0170 EA 10" x 8" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	756.95	99.67
26 27 16 00-0171 EA 10" x 10" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	801.82	99.67
26 27 16 00-0172 EA 12" x 8" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	908.67	107.76
26 27 16 00-0173 EA 12" x 12" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,049.07	121.22
26 27 16 00-0174 EA 16" x 6" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	989.48	115.83
26 27 16 00-0175 EA 18" x 12" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	1,918.04	215.50
26 27 16 00-0176 EA 18" x 18" x 6" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure.....	3,261.80	269.38



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0177			<b>8" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (2627 16 00-0147)</b>		
26 27 16 00-0178	EA		8" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	810.41	102.37
26 27 16 00-0179	EA		12" x 8" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	1,207.38	134.69
26 27 16 00-0180	EA		12" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	1,225.70	134.69
26 27 16 00-0181	EA		16" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	1,672.06	202.04
26 27 16 00-0182	EA		18" x 12" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	2,172.55	215.50
26 27 16 00-0183	EA		24" x 24" x 8" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	5,413.37	377.13
26 27 16 00-0184			<b>10" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (2627 16 00-0147)</b>		
26 27 16 00-0185	EA		18" x 12" x 10" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	2,886.29	269.38
26 27 16 00-0186			<b>12" Depth, Screw Cover, Galvanized Cast Iron NEMA 3 Enclosures (2627 16 00-0147)</b>		
26 27 16 00-0187	EA		18" x 18" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	4,385.63	323.26
26 27 16 00-0188	EA		24" x 12" x 12" Screw Cover, Galvanized Cast Iron NEMA 3 Enclosure .....	3,624.61	296.32
26 27 16 00-0189			<b>NEMA 3R Enclosures (26 27 16)</b> Note: Rain-tight enclosures.		
26 27 16 00-0190			<b>Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0189)</b>		
26 27 16 00-0191			<b>4" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0190)</b>		
26 27 16 00-0192	EA		6" x 4" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	69.37	21.55
26 27 16 00-0193	EA		6" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	76.46	23.70
26 27 16 00-0194	EA		8" x 6" x 4" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	94.65	23.70
26 27 16 00-0195			<b>6" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (2627 16 00-0190)</b>		
26 27 16 00-0196	EA		8" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	125.60	32.33
26 27 16 00-0197	EA		10" x 8" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	141.09	36.63
26 27 16 00-0198	EA		12" x 10" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	162.65	40.95
26 27 16 00-0199	EA		12" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	174.18	43.10
26 27 16 00-0200	EA		16" x 12" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	226.64	56.03
26 27 16 00-0201	EA		16" x 16" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	273.81	68.96
26 27 16 00-0202	EA		18" x 18" x 6" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	323.33	86.20
26 27 16 00-0203			<b>8" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (2627 16 00-0190)</b>		
26 27 16 00-0204	EA		24" x 20" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	461.15	109.91
26 27 16 00-0205	EA		24" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	506.65	118.52
26 27 16 00-0206	EA		30" x 24" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	558.33	125.00
26 27 16 00-0207	EA		30" x 30" x 8" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	584.17	129.30
26 27 16 00-0208			<b>10" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (2627 16 00-0190)</b>		
26 27 16 00-0209	EA		12" x 48" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	568.02	133.61
26 27 16 00-0210	EA		12" x 54" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	641.53	150.85
26 27 16 00-0211	EA		12" x 60" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	710.56	167.02
26 27 16 00-0212	EA		12" x 66" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	781.92	184.26
26 27 16 00-0213	EA		12" x 72" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	852.02	200.41
26 27 16 00-0214	EA		18" x 18" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	396.28	105.60
26 27 16 00-0215	EA		24" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	568.02	133.61
26 27 16 00-0216	EA		30" x 24" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	643.68	137.93
26 27 16 00-0217	EA		36" x 36" x 10" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	781.03	150.85
26 27 16 00-0218			<b>12" Depth, Hinged Cover, Galvanized Steel NEMA 3R Enclosures (2627 16 00-0190)</b>		
26 27 16 00-0219	EA		12" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	518.02	106.67
26 27 16 00-0220	EA		12" x 54" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	581.49	119.61
26 27 16 00-0221	EA		12" x 60" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	643.89	132.54
26 27 16 00-0222	EA		12" x 66" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	711.13	146.54
26 27 16 00-0223	EA		12" x 72" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	774.61	159.47
26 27 16 00-0224	EA		18" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	387.30	79.74
26 27 16 00-0225	EA		18" x 32" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	518.02	106.67
26 27 16 00-0226	EA		18" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	581.49	119.61
26 27 16 00-0227	EA		18" x 42" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	679.93	140.08
26 27 16 00-0228	EA		18" x 48" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	774.61	159.47
26 27 16 00-0229	EA		30" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	744.40	157.32
26 27 16 00-0230	EA		36" x 24" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	774.61	159.47
26 27 16 00-0231	EA		36" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	809.96	163.78
26 27 16 00-0232	EA		36" x 36" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	887.95	172.41
26 27 16 00-0233	EA		42" x 30" x 12" Hinged Cover, Galvanized Steel NEMA 3R Enclosure.....	954.57	181.02
26 27 16 00-0234			<b>Screw Cover, Galvanized Steel NEMA 3R Enclosures (2627 16 00-0189)</b>		
26 27 16 00-0235			<b>4" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (2627 16 00-0234)</b>		

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 27 16 00-0236	EA	4" x 4" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	55.22	17.24
26 27 16 00-0237	EA	6" x 4" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	67.51	21.55
26 27 16 00-0238	EA	6" x 6" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	74.45	23.70
26 27 16 00-0239	EA	8" x 6" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	82.09	25.86
26 27 16 00-0240	EA	8" x 8" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	95.48	30.17
26 27 16 00-0241	EA	10" x 8" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	103.46	32.33
26 27 16 00-0242	EA	10" x 10" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	111.95	34.48
26 27 16 00-0243	EA	12" x 8" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	111.61	34.48
26 27 16 00-0244	EA	12" x 10" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	120.86	36.63
26 27 16 00-0245	EA	12" x 12" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	129.35	38.79
26 27 16 00-0246	EA	18" x 12" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	197.28	60.34
26 27 16 00-0247	EA	18" x 18" x 4" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	260.02	77.58
<b>26 27 16 00-0248</b>		<b>6" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)</b>		
26 27 16 00-0249	EA	6" x 6" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	78.78	25.86
26 27 16 00-0250	EA	8" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	104.36	32.33
26 27 16 00-0251	EA	10" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	118.24	36.63
26 27 16 00-0252	EA	10" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	127.18	38.79
26 27 16 00-0253	EA	12" x 8" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	126.69	38.79
26 27 16 00-0254	EA	12" x 10" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	136.03	40.95
26 27 16 00-0255	EA	12" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	145.43	43.10
26 27 16 00-0256	EA	16" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	189.56	56.03
26 27 16 00-0257	EA	18" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	220.68	66.81
26 27 16 00-0258	EA	18" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	291.32	86.20
26 27 16 00-0259	EA	24" x 12" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	306.97	92.67
26 27 16 00-0260	EA	24" x 18" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	343.65	99.13
26 27 16 00-0261	EA	24" x 24" x 6" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	382.92	107.76
<b>26 27 16 00-0262</b>		<b>8" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)</b>		
26 27 16 00-0263	EA	12" x 12" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	161.88	47.41
26 27 16 00-0264	EA	18" x 12" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	239.36	73.28
26 27 16 00-0265	EA	18" x 18" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	321.74	94.82
26 27 16 00-0266	EA	24" x 18" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	380.47	109.91
26 27 16 00-0267	EA	24" x 24" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	424.30	118.52
26 27 16 00-0268	EA	30" x 24" x 8" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	464.27	125.00
<b>26 27 16 00-0269</b>		<b>10" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)</b>		
26 27 16 00-0270	EA	18" x 18" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	355.99	105.60
26 27 16 00-0271	EA	24" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	470.06	133.61
26 27 16 00-0272	EA	30" x 24" x 10" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	506.48	137.93
<b>26 27 16 00-0273</b>		<b>12" Depth, Screw Cover, Galvanized Steel NEMA 3R Enclosures (26 27 16 00-0234)</b>		
26 27 16 00-0274	EA	24" x 24" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	518.15	146.54
26 27 16 00-0275	EA	30" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	674.27	159.47
26 27 16 00-0276	EA	36" x 30" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	695.75	163.78
26 27 16 00-0277	EA	36" x 36" x 12" Screw Cover, Galvanized Steel NEMA 3R Enclosure .....	793.38	172.41
<b>26 27 16 00-0278</b>		<b>NEMA 4 Enclosures (26 27 16)</b>		
		Note: Water-tight enclosures.		
<b>26 27 16 00-0279</b>		<b>Hinge Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0278)</b>		
26 27 16 00-0280	EA	4" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	78.84	15.09
26 27 16 00-0281	EA	6" x 4" x 3" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	92.84	18.32
26 27 16 00-0282	EA	8" x 6" x 3.5" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	116.56	23.70
26 27 16 00-0283	EA	6" x 6" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	111.89	23.70
26 27 16 00-0284	EA	10" x 8" x 4" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	150.09	32.33
26 27 16 00-0285	EA	12" x 10" x 5" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	185.73	38.79
26 27 16 00-0286	EA	10" x 8" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	172.25	36.63
26 27 16 00-0287	EA	12" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	201.16	43.10
26 27 16 00-0288	EA	14" x 12" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	235.70	49.57
26 27 16 00-0289	EA	16" x 14" x 6" Hinge Cover, Painted Steel NEMA 4 Enclosure .....	287.78	62.50
<b>26 27 16 00-0290</b>		<b>Clamp Cover, Painted Steel NEMA 4 Enclosures (26 27 16 00-0278)</b>		
26 27 16 00-0291	EA	4" x 4" x 3" Clamp Cover, Painted Steel NEMA 4 Enclosure .....	73.41	15.09
26 27 16 00-0292	EA	6" x 6" x 4" Clamp Cover, Painted Steel NEMA 4 Enclosure .....	106.47	23.70
<b>26 27 16 00-0293</b>		<b>Screw Cover, Fiberglass NEMA 4 Or 4x Enclosures (26 27 16 00-0278)</b>		
26 27 16 00-0294	EA	6" x 6" x 4" Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure.....	93.67	20.69
26 27 16 00-0295	EA	8" x 6" x 4" Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure.....	99.88	22.41
26 27 16 00-0296	EA	10" x 8" x 6" Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure.....	124.15	29.31
26 27 16 00-0297	EA	12" x 10" x 6" Screw Cover, Fiberglass NEMA 4 Or 4x Enclosure.....	143.86	32.33
26 27 16 00-0298	EA	14" x 12" x 8" Screw Cover, Fiberglass NEMA 4 Enclosure .....	184.84	40.95
26 27 16 00-0299	EA	16" x 14" x 8" Screw Cover, Fiberglass NEMA 4 Enclosure .....	216.42	48.48





MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27	16 00-0300	EA	18" x 16" x 10" Screw Cover, Fiberglass NEMA 4 Enclosure .....	312.94	77.58
<b>26 27 16 00-0301 NEMA 4X Enclosures <small>(26 27 16)</small></b>					
Note: Water-tight enclosures.					
<b>26 27 16 00-0302 Clamp Cover, Aluminum NEMA 4X Enclosures <small>(26 27 16 00-0301)</small></b>					
26 27	16 00-0303	EA	6" x 4" x 3" Clamp Cover, Aluminum NEMA 4X Enclosure .....	146.08	17.24
26 27	16 00-0304	EA	6" x 6" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure .....	175.08	23.70
26 27	16 00-0305	EA	10" x 8" x 4" Clamp Cover, Aluminum NEMA 4X Enclosure .....	223.86	32.33
26 27	16 00-0306	EA	12" x 10" x 5" Clamp Cover, Aluminum NEMA 4X Enclosure .....	271.39	38.79
26 27	16 00-0307	EA	14" x 12" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure .....	336.05	49.57
26 27	16 00-0308	EA	16" x 14" x 6" Clamp Cover, Aluminum NEMA 4X Enclosure .....	400.21	62.50
<b>26 27 16 00-0309 Clamp Cover, 304 Stainless Steel NEMA 4X Enclosures <small>(26 27 16 00-0301)</small></b>					
26 27	16 00-0310	EA	4" x 4" x 3" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	131.11	15.09
			<i>For 316L Stainless Steel, Add</i>	25.22	
26 27	16 00-0311	EA	6" x 4" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	173.38	21.55
			<i>For 316L Stainless Steel, Add</i>	32.27	
26 27	16 00-0312	EA	6" x 6" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	195.41	23.70
			<i>For 316L Stainless Steel, Add</i>	36.76	
26 27	16 00-0313	EA	8" x 6" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	221.77	25.86
			<i>For 316L Stainless Steel, Add</i>	42.42	
26 27	16 00-0314	EA	10" x 8" x 4" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	273.21	32.33
			<i>For 316L Stainless Steel, Add</i>	51.95	
26 27	16 00-0315	EA	12" x 10" x 6" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	377.60	40.95
			<i>For 316L Stainless Steel, Add</i>	74.31	
26 27	16 00-0316	EA	14" x 12" x 6" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	468.53	49.57
			<i>For 316L Stainless Steel, Add</i>	93.05	
26 27	16 00-0317	EA	16" x 14" x 6" Clamp Cover, 304 Stainless Steel NEMA 4X Enclosure .....	568.90	62.50
			<i>For 316L Stainless Steel, Add</i>	111.42	
<b>26 27 16 00-0318 Screw Cover, Polycarbonate NEMA 4X Enclosures <small>(26 27 16 00-0301)</small></b>					
Note: NEMA 3R, 4, 4X and 12 rated.					
26 27	16 00-0319	EA	6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	103.17	23.70
26 27	16 00-0320	EA	8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	115.49	25.86
26 27	16 00-0321	EA	8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	132.63	30.17
26 27	16 00-0322	EA	10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	143.79	32.33
26 27	16 00-0323	EA	12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	165.54	36.63
26 27	16 00-0324	EA	10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	157.45	36.63
26 27	16 00-0325	EA	12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	182.07	40.95
26 27	16 00-0326	EA	14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	226.75	49.57
26 27	16 00-0327	EA	16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	293.35	67.89
26 27	16 00-0328	EA	18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	386.16	97.73
26 27	16 00-0329	EA	6" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	109.53	23.70
26 27	16 00-0330	EA	8" x 6" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	123.01	25.86
26 27	16 00-0331	EA	8" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	140.72	30.17
26 27	16 00-0332	EA	10" x 8" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	153.61	32.33
26 27	16 00-0333	EA	12" x 10" x 4" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	175.94	36.63
26 27	16 00-0334	EA	10" x 8" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	167.28	36.63
26 27	16 00-0335	EA	12" x 10" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	195.40	40.95
26 27	16 00-0336	EA	14" x 12" x 6" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	233.68	49.57
26 27	16 00-0337	EA	16" x 14" x 8" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	307.80	67.89
26 27	16 00-0338	EA	18" x 16" x 10" Screw Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	401.75	97.73
<b>26 27 16 00-0339 Hinged Cover, Polycarbonate NEMA 4X Enclosures <small>(26 27 16 00-0301)</small></b>					
Note: NEMA 3R, 4, 4X and 12 rated.					
26 27	16 00-0340	EA	6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	121.09	23.70
26 27	16 00-0341	EA	8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	129.94	25.86
26 27	16 00-0342	EA	8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	148.23	30.17
26 27	16 00-0343	EA	10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	159.97	32.33
26 27	16 00-0344	EA	12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	188.08	36.63
26 27	16 00-0345	EA	10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	175.37	36.63
26 27	16 00-0346	EA	12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	212.14	40.95
26 27	16 00-0347	EA	14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	252.76	49.57
26 27	16 00-0348	EA	16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	315.89	67.89
26 27	16 00-0349	EA	18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Opaque Cover .....	415.62	97.73
26 27	16 00-0350	EA	6" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	125.71	23.70
26 27	16 00-0351	EA	8" x 6" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	138.60	25.86
26 27	16 00-0352	EA	8" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	156.32	30.17
26 27	16 00-0353	EA	10" x 8" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	168.63	32.33
26 27	16 00-0354	EA	12" x 10" x 4" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	199.64	36.63
26 27	16 00-0355	EA	10" x 8" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	185.19	36.63
26 27	16 00-0356	EA	12" x 10" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	224.28	40.95
26 27	16 00-0357	EA	14" x 12" x 6" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	258.53	49.57
26 27	16 00-0358	EA	16" x 14" x 8" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	334.95	67.89
26 27	16 00-0359	EA	18" x 16" x 10" Hinged Cover, Polycarbonate NEMA 4X Enclosure With Clear Cover .....	435.84	97.73

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 27</b>	<b>Low-Voltage Distribution Equipment</b>



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 27 16 00-0360	<b>NEMA 7/9 Enclosures</b> <small>(26 27 16)</small> Note: Nominal inside dimensions.		
26 27 16 00-0361	<b>4" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0360)</small>		
26 27 16 00-0362	EA 6" x 6" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	955.77	121.22
	<i>For Mounting Pan, Add</i>	37.76	
26 27 16 00-0363	EA 6" x 8" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	780.49	129.30
	<i>For Mounting Pan, Add</i>	70.36	
26 27 16 00-0364	EA 8" x 10" x 4" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	1,465.27	145.46
	<i>For Mounting Pan, Add</i>	97.02	
26 27 16 00-0365	<b>6" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0360)</small>		
26 27 16 00-0366	EA 8" x 8" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	1,312.03	145.46
	<i>For Mounting Pan, Add</i>	49.34	
26 27 16 00-0367	EA 8" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	1,687.16	149.51
	<i>For Mounting Pan, Add</i>	97.02	
26 27 16 00-0368	EA 8" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	1,731.11	161.63
	<i>For Mounting Pan, Add</i>	74.22	
26 27 16 00-0369	EA 10" x 10" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	1,774.18	161.63
	<i>For Mounting Pan, Add</i>	86.83	
26 27 16 00-0370	EA 10" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,493.54	202.04
	<i>For Mounting Pan, Add</i>	113.92	
26 27 16 00-0371	EA 12" x 12" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,345.93	181.83
	<i>For Mounting Pan, Add</i>	71.13	
26 27 16 00-0372	EA 12" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,434.57	202.04
	<i>For Mounting Pan, Add</i>	106.43	
26 27 16 00-0373	EA 12" x 24" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	3,789.74	363.67
	<i>For Mounting Pan, Add</i>	143.19	
26 27 16 00-0374	EA 14" x 14" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,982.97	242.44
	<i>For Mounting Pan, Add</i>	139.42	
26 27 16 00-0375	EA 16" x 16" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	3,963.12	404.07
	<i>For Mounting Pan, Add</i>	127.99	
26 27 16 00-0376	EA 18" x 18" x 6" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	4,704.73	404.07
	<i>For Mounting Pan, Add</i>	208.08	
26 27 16 00-0377	<b>8" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0360)</small>		
26 27 16 00-0378	EA 8" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,016.72	181.83
	<i>For Mounting Pan, Add</i>	74.22	
26 27 16 00-0379	EA 10" x 10" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,030.11	181.83
	<i>For Mounting Pan, Add</i>	86.83	
26 27 16 00-0380	EA 10" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,285.04	181.83
	<i>For Mounting Pan, Add</i>	113.92	
26 27 16 00-0381	EA 12" x 12" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	2,532.26	202.04
	<i>For Mounting Pan, Add</i>	71.13	
26 27 16 00-0382	EA 12" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	3,720.68	363.67
	<i>For Mounting Pan, Add</i>	106.43	
26 27 16 00-0383	EA 12" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	4,528.69	444.48
	<i>For Mounting Pan, Add</i>	143.19	
26 27 16 00-0384	EA 12" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	7,014.80	525.29
	<i>For Mounting Pan, Add</i>	215.34	
26 27 16 00-0385	EA 14" x 14" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	4,102.91	444.48
	<i>For Mounting Pan, Add</i>	139.42	
26 27 16 00-0386	EA 16" x 16" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	4,207.83	444.48
	<i>For Mounting Pan, Add</i>	127.99	
26 27 16 00-0387	EA 16" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	6,168.95	484.88
	<i>For Mounting Pan, Add</i>	191.86	
26 27 16 00-0388	EA 18" x 18" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	5,120.13	444.48
	<i>For Mounting Pan, Add</i>	208.08	
26 27 16 00-0389	EA 18" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	6,777.86	484.88
	<i>For Mounting Pan, Add</i>	304.27	
26 27 16 00-0390	EA 18" x 30" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	6,733.32	484.88
	<i>For Mounting Pan, Add</i>	405.63	
26 27 16 00-0391	EA 18" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	10,393.70	646.51
	<i>For Mounting Pan, Add</i>	506.96	
26 27 16 00-0392	EA 24" x 24" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	7,929.27	525.29
	<i>For Mounting Pan, Add</i>	471.39	
26 27 16 00-0393	EA 24" x 36" x 8" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	14,284.89	808.14
	<i>For Mounting Pan, Add</i>	645.33	
26 27 16 00-0394	<b>10" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> <small>(26 27 16 00-0360)</small>		
26 27 16 00-0395	EA 12" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	7,284.67	525.29
	<i>For Mounting Pan, Add</i>	215.34	
26 27 16 00-0396	EA 16" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure .....	6,706.49	484.88
	<i>For Mounting Pan, Add</i>	191.86	



<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Distribution Equipment	26 27	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 16 00-0397 EA 18" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	7,304.76 304.27	525.29
26 27 16 00-0398 EA 18" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	9,172.17 506.96	565.69
26 27 16 00-0399 EA 24" x 24" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	8,152.85 471.39	565.69
26 27 16 00-0400 EA 24" x 36" x 10" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	15,521.23 645.33	808.14
<b>26 27 16 00-0401 12" Depth, Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosures</b> (26 27 16 00-0360)		
26 27 16 00-0402 EA 12" x 24" x 12" Hinged/Bolted Cover, Cast Aluminum Explosion Proof NEMA 7/9 Enclosure..... <i>For Mounting Pan, Add</i>	4,624.94 143.19	444.48
<b>26 27 16 00-0403 Breaker Enclosures</b> (26 27 16)		
See CSI section 26 24 16 00-0001 for lighting and power panel boards.		
<b>26 27 16 00-0404 15 To 100 Amp, F-Frame Breaker Enclosures</b> (26 27 16 00-0403)		
26 27 16 00-0405 EA NEMA 1, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure.....	336.71	86.20
26 27 16 00-0406 EA NEMA 3R, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure.....	607.06	86.20
26 27 16 00-0407 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 100 Amp, F-Frame Breaker Enclosure.....	1,481.02	118.52
26 27 16 00-0408 EA NEMA 7, Cast Aluminum, 15 To 100 Amp, F-Frame Breaker Enclosure.....	2,002.42	129.30
26 27 16 00-0409 EA NEMA 9, Cast Aluminum, 15 To 100 Amp, F-Frame Breaker Enclosure.....	1,466.06	129.30
26 27 16 00-0410 EA NEMA 12, Painted Steel, 15 To 100 Amp, F-Frame Breaker Enclosure.....	528.29	118.52
<b>26 27 16 00-0411 15 To 250 Amp, H Or J-Frame Breaker Enclosures</b> (26 27 16 00-0403)		
26 27 16 00-0412 EA NEMA 1, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure.....	534.35	118.52
26 27 16 00-0413 EA NEMA 3R, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure.....	967.28	118.52
26 27 16 00-0414 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure.....	3,261.66	150.85
26 27 16 00-0415 EA NEMA 12, Painted Steel, 15 To 250 Amp, H Or J-Frame Breaker Enclosure.....	807.62	150.85
<b>26 27 16 00-0416 125 To 400 Amp, L-Frame Breaker Enclosures</b> (26 27 16 00-0403)		
26 27 16 00-0417 EA NEMA 1, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure.....	845.29	237.06
26 27 16 00-0418 EA NEMA 3R, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure.....	1,912.87	237.06
26 27 16 00-0419 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 125 To 400 Amp, L-Frame Breaker Enclosure.....	5,534.99	301.71
26 27 16 00-0420 EA NEMA 12, Painted Steel, 125 To 400 Amp, L-Frame Breaker Enclosure.....	1,388.30	301.71
<b>26 27 16 00-0421 300 To 800 Amp, M-Frame Breaker Enclosures</b> (26 27 16 00-0403)		
26 27 16 00-0422 EA NEMA 1, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure.....	1,653.65	452.56
26 27 16 00-0423 EA NEMA 3R, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure.....	2,782.00	452.56
26 27 16 00-0424 EA NEMA 3/3R/4/4X/5/12, Stainless Steel, 300 To 800 Amp, M-Frame Breaker Enclosure.....	9,965.29	581.86
26 27 16 00-0425 EA NEMA 12, Painted Steel, 300 To 800 Amp, M-Frame Breaker Enclosure.....	5,438.85	581.86
<b>26 27 16 00-0426 250 To 1,200 Amp, P-Frame Breaker Enclosures</b> (26 27 16 00-0403)		
26 27 16 00-0427 EA NEMA 1, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure.....	2,000.50	452.56
26 27 16 00-0428 EA NEMA 3R, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure.....	3,330.53	452.56
26 27 16 00-0429 EA NEMA 3R/5/12, Painted Steel, 250 To 1,200 Amp, P-Frame Breaker Enclosure.....	6,812.34	581.86
<b>26 27 16 00-0430 Legend Plates</b> (26 27 16)		
26 27 16 00-0431 EA 3" Phenolic Plastic Cabinet Legend Plate Engraved With 1/2" Letters.....	13.26	5.39
26 27 16 00-0432 EA 3" Engraved Aluminum Cabinet Legend Plate Engraved With 1/2" Letters.....	19.21	5.39
<b>26 27 23 Indoor Service Poles</b> (26 27)		
<b>26 27 23 00-0001 Communication And Power Poles</b> (26 27 23)		
Note: Includes separate compartments for power and communication cable. Includes removable cover plates with knock-outs for modular jacks and openings to accept modular furniture adapters for communication devices. Includes all necessary mounting plates and assemblies. Excludes electrical and communications wire, power outlets and communication devices. Wiremold Tele-Power Pole series.		
<b>26 27 23 00-0002 Steel Communication And Power Poles</b> (26 27 23 00-0001)		
<b>26 27 23 00-0003 2-1/4" Width, Steel Communication And Power Poles</b> (26 27 23 00-0002)		
<b>26 27 23 00-0004 2-1/4" Width, Steel Communication And Power Poles</b> (26 27 23 00-0003)		
26 27 23 00-0005 EA 2-1/4" x 2-5/16", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	246.26	47.77
26 27 23 00-0006 EA 2-1/4" x 2-5/16", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	265.83	47.77
26 27 23 00-0007 EA 2-1/4" x 2-5/16", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	288.48	47.77
<b>26 27 23 00-0008 Additional Cover Plates For 2-1/4" Width, Steel Communication And Power Poles</b> (26 27 23 00-0003)		
Note: Excludes receptacles, communication jacks and wiring.		

26 Electrical

26 20 Low-Voltage Electrical Distribution

26 27 Low-Voltage Distribution Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 23 00-0009	EA		Add-On Cover Plate For Two Duplex Receptacles And One Single Receptacle .....	40.71	9.85
26 27 23 00-0010	EA		Add-On Cover Plate For Three Duplex Receptacles .....	44.26	9.85
26 27 23 00-0011	EA		Add-On Cover Plate For Two Duplex Receptacles And One GFCI Receptacle .....	49.59	9.85
26 27 23 00-0012	EA		Add-On Cover Plate For Data And A/V Modular Devices .....	37.78	9.85
26 27 23 00-0013	EA		Add-On Radius Control Entrance End Fitting .....	31.82	9.85
<b>26 27 23 00-0014</b>			<b>2-3/4" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0002)</small>		
<b>26 27 23 00-0015</b>			<b>2-3/4" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0014)</small>		
26 27 23 00-0016	EA		2-3/4" x 1-17/32", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	313.40	47.77
26 27 23 00-0017	EA		2-3/4" x 1-17/32", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	355.47	47.77
26 27 23 00-0018	EA		2-3/4" x 1-17/32", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	378.18	47.77
<b>26 27 23 00-0019</b>			<b>Additional Cover Plates For 2-3/4" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0014)</small>		
			Note: Excludes receptacles and communication jacks.		
26 27 23 00-0020	EA		Add-On Cover Plate For One Single Receptacle.....	35.15	9.85
26 27 23 00-0021	EA		Add-On Cover Plate For One Duplex Receptacle.....	32.01	9.85
26 27 23 00-0022	EA		Add-On Cover Plate For Data And A/V Modular Devices .....	34.26	9.85
<b>26 27 23 00-0023</b>			<b>3" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0002)</small>		
<b>26 27 23 00-0024</b>			<b>3" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0023)</small>		
26 27 23 00-0025	EA		3" x 2-3/4", 10'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	402.56	47.77
26 27 23 00-0026	EA		3" x 2-3/4", 12'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	453.21	47.77
26 27 23 00-0027	EA		3" x 2-3/4", 15'-5" Height, Enamel Finish, Steel Communication And Power Pole.....	486.60	47.77
<b>26 27 23 00-0028</b>			<b>Additional Cover Plates For 3" Width, Steel Communication And Power Poles</b> <small>(26 27 23 00-0023)</small>		
			Note: Excludes receptacles and communication jacks.		
26 27 23 00-0029	EA		Add-On Cover Plate For One Single Receptacle.....	35.15	9.85
26 27 23 00-0030	EA		Add-On Cover Plate For One Duplex Receptacle.....	32.01	9.85
26 27 23 00-0031	EA		Add-On Cover Plate For Data And A/V Modular Devices .....	34.26	9.85
<b>26 27 23 00-0032</b>			<b>Aluminum Communication And Power Poles</b> <small>(26 27 23 00-0001)</small>		
<b>26 27 23 00-0033</b>			<b>2-1/8" Width, Aluminum Communication And Power Poles</b> <small>(26 27 23 00-0032)</small>		
<b>26 27 23 00-0034</b>			<b>2-1/8" Width, Aluminum Communication And Power Poles</b> <small>(26 27 23 00-0033)</small>		
26 27 23 00-0035	EA		2-1/8" x 2-3/8", 10'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	326.57	47.77
26 27 23 00-0036	EA		2-1/8" x 2-3/8", 12'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	361.98	47.77
26 27 23 00-0037	EA		2-1/8" x 2-3/8", 15'-5" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	401.68	47.77
<b>26 27 23 00-0038</b>			<b>Additional Cover Plates For 2-1/8" Width, Aluminum Communication And Power Poles</b> <small>(26 27 23 00-0033)</small>		
26 27 23 00-0039	EA		Add-On Cover Plate For Two Duplex Receptacles And One Single Receptacle .....	51.65	9.85
26 27 23 00-0040	EA		Add-On Cover Plate For Three Duplex Receptacles .....	52.65	9.85
26 27 23 00-0041	EA		Add-On Cover Plate For Two Duplex Receptacles And One GFCI Receptacle .....	55.98	9.85
26 27 23 00-0042	EA		Add-On Cover Plate For Data And A/V Modular Devices .....	39.65	9.85
26 27 23 00-0043	EA		Add-On Radius Control Entrance End Fitting .....	31.82	9.85
<b>26 27 23 00-0044</b>			<b>2-1/4" Width, Aluminum Communication And Power Poles</b> <small>(26 27 23 00-0032)</small>		
26 27 23 00-0045	EA		2-1/4" x 2-5/16", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	315.51	47.77
26 27 23 00-0046	EA		2-1/4" x 2-5/16", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	351.83	47.77
26 27 23 00-0047	EA		2-1/4" x 2-5/16", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	394.62	47.77
<b>26 27 23 00-0048</b>			<b>5" Width, Aluminum Communication And Power Poles</b> <small>(26 27 23 00-0032)</small>		
26 27 23 00-0049	EA		5" x 4-3/4", 10'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	639.01	47.77
26 27 23 00-0050	EA		5" x 4-3/4", 12'-8" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	728.09	47.77
26 27 23 00-0051	EA		5" x 4-3/4", 15'-2" Height, Satin Anodized Finish, Aluminum Communication And Power Pole .....	827.85	47.77
<b>26 27 23 00-0052</b>			<b>2" Diameter, Round Aluminum Communication And Power Pole</b> <small>(26 27 23 00-0032)</small>		
26 27 23 00-0053	EA		2" Diameter, 10'-4" Height, Satin Anodized Finish, Aluminum Communication And Power Pole.....	356.11	47.77
26 27 23 00-0054	EA		2" Diameter, 10'-4" Height, Painted White Finish, Aluminum Communication And Power Pole.....	338.16	47.77
26 27 23 00-0055	EA		2" Diameter, 10'-4" Height, Polished Anodized Finish, Aluminum Communication And Power Pole.....	427.74	47.77
<b>26 27 26</b>			<b>Wiring Devices</b> <small>(26 27)</small>		
			Note: Includes device, installation, wire connections, support clips (where necessary) and testing. Assemblies include outlet device, cover plate, mounting and appropriate box.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0001	<b>Receptacles <small>(26 27 26)</small></b>	
26 27 26 00-0002	<b>General Use Receptacles <small>(26 27 26 00-0001)</small></b>	
26 27 26 00-0003	<b>Receptacle Assemblies <small>(26 27 26 00-0002)</small></b>	
	Note: Includes 4" square steel box, bracket, mud ring, receptacle and cover plate.	
26 27 26 00-0004	EA 1 Gang, 15 Amp, NEMA 5-15, Duplex Receptacle Assembly.....	84.77 38.26
26 27 26 00-0005	EA 1 Gang, 20 Amp, NEMA 5-20, Duplex Receptacle Assembly.....	91.49 40.95
26 27 26 00-0006	EA 2 Gang, 15 Amp, NEMA 5-15, Duplex Receptacle Assembly.....	110.82 49.02
26 27 26 00-0007	EA 2 Gang, 20 Amp, NEMA 5-20, Duplex Receptacle Assembly.....	124.26 54.41
26 27 26 00-0008	EA 1 Gang, 15 Amp, GFI, Duplex Receptacle Assembly.....	102.85 38.26
26 27 26 00-0009	EA 1 Gang, 20 Amp, GFI, Duplex Receptacle Assembly.....	110.53 40.95
26 27 26 00-0010	<b>Receptacle Components <small>(26 27 26 00-0002)</small></b>	
26 27 26 00-0011	EA 15 Amp, NEMA 5-15, Single Receptacle, 125 Volt, 1 Phase.....	26.48 10.78
26 27 26 00-0012	EA 15 Amp, NEMA 5-15, Duplex Receptacle, 125 Volt, 1 Phase.....	25.43 10.78
26 27 26 00-0013	EA 15 Amp, Single Receptacle, 120/277 Volt, 3 Wire.....	31.64 10.78
26 27 26 00-0014	EA 15 Amp, Duplex Receptacle, 120/277 Volt, 3 Wire.....	35.24 10.78
26 27 26 00-0015	EA 15 Amp, NEMA 6-15, Single Receptacle, 250 Volt, 1 Phase.....	45.21 13.47
26 27 26 00-0016	EA 15 Amp, NEMA 6-15, Duplex Receptacle, 250 Volt, 1 Phase.....	57.01 13.47
26 27 26 00-0017	EA 20 Amp, NEMA 5-20, Single Receptacle, 125 Volt, 1 Phase.....	27.87 10.78
26 27 26 00-0018	EA 20 Amp, NEMA 5-20, Duplex Receptacle, 125 Volt, 1 Phase.....	26.76 10.78
26 27 26 00-0019	EA 20 Amp, Single Receptacle, 120/277 Volt.....	42.97 10.78
26 27 26 00-0020	EA 20 Amp, Duplex Receptacle, 120/277 Volt.....	34.11 10.78
26 27 26 00-0021	EA 20 Amp, NEMA 6-20, Single Receptacle, 250 Volt, 1 Phase.....	45.21 13.47
26 27 26 00-0022	EA 20 Amp, NEMA 6-20, Duplex Receptacle, 250 Volt, 1 Phase.....	57.01 13.47
26 27 26 00-0023	EA 20 Amp, NEMA 14-20, Single Receptacle, 125/250 Volt, 1 Phase.....	94.89 13.47
26 27 26 00-0024	EA 20 Amp, NEMA 15-20, Single Receptacle, 250 Volt, 3 Phase.....	94.89 13.47
26 27 26 00-0025	EA 25 Amp, Duplex Receptacle, 120/277 Volt.....	75.97 16.17
26 27 26 00-0026	<b>Specialty Receptacles <small>(26 27 26 00-0001)</small></b>	
26 27 26 00-0027	<b>Specialty Receptacles <small>(26 27 26 00-0026)</small></b>	
26 27 26 00-0028	EA 30 Amp, NEMA 5-30, Single Receptacle, 125 Volt, 1 Phase.....	64.51 18.85
26 27 26 00-0029	EA 30 Amp, NEMA 6-30, Single Receptacle, 250 Volt, 1 Phase.....	64.51 18.85
26 27 26 00-0030	EA 30 Amp, NEMA 10-30 Single Receptacles, 125/250 Volt.....	59.91 18.85
26 27 26 00-0031	EA 30 Amp, NEMA 14-30, Single Receptacle, 125/250 Volt, 1 Phase.....	105.66 18.85
26 27 26 00-0032	EA 30 Amp, NEMA 15-30, Single Receptacle, 250 Volt, 3 Phase.....	111.05 21.55
26 27 26 00-0033	EA 50 Amp, NEMA 5-50, Single Receptacle, 125 Volt, 1 Phase.....	101.23 21.55
26 27 26 00-0034	EA 50 Amp, NEMA 6-50, Single Receptacle, 250 Volt, 1 Phase.....	98.47 21.55
26 27 26 00-0035	EA 50 Amp, NEMA 7-50 Single Receptacles, 277 Volt.....	84.20 21.55
26 27 26 00-0036	EA 50 Amp, NEMA 10-50 Single Receptacles, 125/250 Volt.....	71.53 21.55
26 27 26 00-0037	EA 50 Amp, NEMA 14-50, Single Receptacle, 125/250 Volt, 1 Phase.....	126.15 21.55
26 27 26 00-0038	EA 50 Amp, NEMA 15-50, Single Receptacle, 250 Volt, 3 Phase.....	131.53 24.24
26 27 26 00-0039	EA 60 Amp, NEMA 14-60, Single Receptacle, 125/250 Volt, 1 Phase.....	144.47 26.94
26 27 26 00-0040	EA 60 Amp, NEMA 15-60, Single Receptacle, 250 Volt, 3 Phase.....	155.25 32.33
26 27 26 00-0041	EA 100 Amp, 3 Phase, 480 Volt Joy Receptacle With Box - Complete.....	1,514.69 253.22
26 27 26 00-0042	EA 400 Amp, 4 Pole Weatherproof Generator Receptacle With Box - Complete.....	3,959.48 309.78
26 27 26 00-0043	EA 30 Amp, Dryer Receptacle, 230 Volt.....	77.75 21.55
26 27 26 00-0044	EA 60 Amp, Range Receptacle, 230 Volt.....	113.20 32.33
26 27 26 00-0045	EA 15 Or 20 Amp, Clock Hanger Receptacle, 120/277 Volt.....	78.53 13.47
26 27 26 00-0046	EA Cable Reel With 20 Amp, 120 Volt Receptacle - Complete.....	1,539.07 328.33
26 27 26 00-0047	<b>Isolated Ground Receptacles <small>(26 27 26 00-0026)</small></b>	
26 27 26 00-0048	EA 15 Amp, 125 Volt, NEMA 5-15R Isolated Ground Receptacle, Simplex.....	58.69 10.78
	Note: 2 Pole, 3 wire.	
26 27 26 00-0049	EA 20 Amp, 120 Volt Isolated Ground Receptacles, Simplex.....	65.09 13.47
26 27 26 00-0050	EA 20 Amp, 120 Volt Isolated Ground Receptacles, Duplex.....	64.82 13.47
26 27 26 00-0051	EA 30 Amp, 120 Volt Isolated Ground Receptacles, Simplex.....	87.80 21.55
26 27 26 00-0052	EA Locking 15 Amp, 250 Volt Isolated Ground Receptacles.....	74.18 13.47
26 27 26 00-0053	EA Locking 15 Amp, 277 Volt Isolated Ground Receptacles.....	67.11 13.47
26 27 26 00-0054	EA Locking 20 Amp, 120/208 Volt Isolated Ground Receptacles.....	94.62 16.17
26 27 26 00-0055	EA Locking 20 Amp, 277/480 Volt Isolated Ground Receptacles.....	72.60 16.17
26 27 26 00-0056	EA Locking 20 Amp, 347/600 Volt Isolated Ground Receptacles.....	97.23 16.17
26 27 26 00-0057	EA Locking 30 Amp, 120/208 Volt Isolated Ground Receptacles.....	121.24 16.17
26 27 26 00-0058	EA Locking 30 Amp, 277 Volt Isolated Ground Receptacles.....	115.08 21.55
26 27 26 00-0059	<b>Explosion Proof Receptacles <small>(26 27 26 00-0026)</small></b>	
26 27 26 00-0060	EA 1/2", 20 Amp, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly.....	529.99 26.94
26 27 26 00-0061	EA 3/4", 20 Amp, 2 Watt, 3 Pole, Type CPS Explosion Proof Receptacle Assembly.....	491.83 29.63
26 27 26 00-0062	EA 3/4", 30 Amp, 2 Watt, 3 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	821.07 53.87
26 27 26 00-0063	EA 3/4", 30 Amp, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,024.09 53.87
26 27 26 00-0064	EA 1-1/4", 60 Amp, 2 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,305.05 80.81
26 27 26 00-0065	EA 1-1/4", 60 Amp, 3 Watt, 4 Pole, Type CES/CESD Explosion Proof Receptacle Assembly.....	1,246.27 80.81
26 27 26 00-0066	<b>Ground Fault Circuit Interrupter (GFCI) <small>(26 27 26 00-0026)</small></b>	

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 27</b>	<b>Low-Voltage Distribution Equipment</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0067	EA		15 Amp Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle.....	40.80	13.47
26 27 26 00-0068	EA		20 Amp Ground Fault Circuit Interrupter (GFCI), Duplex Receptacle.....	56.57	16.17
<b>26 27 26 00-0069</b>			<b>Arc Fault Circuit Interrupter (AFCI) (26 27 26 00-0026)</b>		
26 27 26 00-0070	EA		15 Amp, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle.....	80.22	13.47
26 27 26 00-0071	EA		20 Amp, 125 Volt Duplex Arc Fault Circuit Interrupter (AFCI), Tamper Resistant Receptacle.....	88.98	13.47
<b>26 27 26 00-0072</b>			<b>Locking Receptacle (26 27 26 00-0026)</b>		
26 27 26 00-0073	EA		NEMA L5-15, 125 Volt, 2 Pole, 15 Amp, Locking Receptacle.....	40.90	13.47
26 27 26 00-0074	EA		NEMA L6-15, 250 Volt, 2 Pole, 15 Amp, Locking Receptacle.....	48.15	13.47
26 27 26 00-0075	EA		NEMA L5-20, 125 Volt, 2 Pole, 20 Amp, Locking Receptacle.....	46.21	16.17
26 27 26 00-0076	EA		NEMA L6-20, 250 Volt, 2 Pole, 20 Amp, Locking Receptacle.....	45.89	16.17
26 27 26 00-0077	EA		NEMA L8-20, 480 Volt, 2 Pole, 20 Amp, Locking Receptacle.....	52.26	16.17
26 27 26 00-0078	EA		NEMA L9-20, 600 Volt, 2 Pole, 20 Amp, Locking Receptacle.....	60.50	16.17
26 27 26 00-0079	EA		NEMA L10-20, 125/250 Volt, 3 Pole, 20 Amp, Locking Receptacle.....	59.59	16.17
26 27 26 00-0080	EA		NEMA L14-20, 125/250 Volt, 3 Pole, 20 Amp, Locking Receptacle.....	53.57	16.17
26 27 26 00-0081	EA		NEMA L5-30, 125 Volt, 2 Pole, 30 Amp, Locking Receptacle.....	63.25	21.55
26 27 26 00-0082	EA		NEMA L6-30, 250 Volt, 2 Pole, 30 Amp, Locking, Receptacle.....	64.02	21.55
26 27 26 00-0083	EA		NEMA L15-30, 250 Volt, 3 Pole, 30 Amp, Locking Receptacle.....	124.80	21.55
<b>26 27 26 00-0084</b>			<b>Hospital Grade Receptacle (26 27 26 00-0026)</b>		
26 27 26 00-0085	EA		15 Amp Heavy Duty Hospital Grade, NEMA 5-15, Duplex Receptacle.....	39.16	10.78
26 27 26 00-0086	EA		20 Amp Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle.....	41.91	10.78
26 27 26 00-0087	EA		20 Amp Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground.....	47.11	10.78
26 27 26 00-0088	EA		20 Amp Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle.....	42.30	10.78
26 27 26 00-0089	EA		20 Amp Extra Heavy Duty Hospital Grade, NEMA 5-20, Duplex Receptacle, Isolated Ground.....	47.68	10.78
26 27 26 00-0090	EA		20 Amp Non-Magnetic MRI Hospital Grade, NEMA 5-20, Duplex Receptacle.....	51.85	10.78
26 27 26 00-0091	EA		120 Volt Transient Voltage Surge Suppressor Receptacle.....	178.42	32.33
			Note: Hospital grade receptacle.		
<b>26 27 26 00-0092</b>			<b>Weathertight Pin And Sleeve Receptacle (26 27 26 00-0026)</b>		
26 27 26 00-0093	EA		20 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R4W).....	196.15	53.87
26 27 26 00-0094	EA		20 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R6W).....	195.78	53.87
26 27 26 00-0095	EA		20 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 320R7W).....	202.67	53.87
26 27 26 00-0096	EA		20 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R12W).....	242.67	59.26
26 27 26 00-0097	EA		20 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R9W).....	243.24	59.26
26 27 26 00-0098	EA		20 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 420R7W).....	241.92	59.26
26 27 26 00-0099	EA		30 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R4W).....	286.59	66.26
26 27 26 00-0100	EA		30 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R6W).....	275.38	66.26
26 27 26 00-0101	EA		30 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 330R7W).....	292.93	66.26
26 27 26 00-0102	EA		30 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R12W).....	299.99	72.74
26 27 26 00-0103	EA		30 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R9W).....	299.77	72.74
26 27 26 00-0104	EA		30 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 430R7W).....	301.36	72.74
26 27 26 00-0105	EA		60 Amp, 2 Pole, 3 Wire, 125 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R4W).....	410.62	86.20
26 27 26 00-0106	EA		60 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R6W).....	397.04	86.20
26 27 26 00-0107	EA		60 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 360R7W).....	405.88	86.20
26 27 26 00-0108	EA		60 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R12W).....	451.92	95.90
26 27 26 00-0109	EA		60 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R9W).....	452.18	95.90
26 27 26 00-0110	EA		60 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 460R7W).....	452.44	95.90
26 27 26 00-0111	EA		100 Amp, 2 Pole, 3 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R6W).....	503.71	107.76
26 27 26 00-0112	EA		100 Amp, 2 Pole, 3 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 3100R7W).....	521.12	107.76
26 27 26 00-0113	EA		100 Amp, 3 Pole, 4 Wire, 125/250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R12W).....	562.50	118.52
26 27 26 00-0114	EA		100 Amp, 3 Pole, 4 Wire, 250 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R9W).....	561.19	118.52
26 27 26 00-0115	EA		100 Amp, 3 Pole, 4 Wire, 480 Volt, Watertight Pin And Sleeve Receptacle (Hubbell 4100R7W).....	563.65	118.52
<b>26 27 26 00-0116</b>			<b>Corrosion Resistant Receptacle (26 27 26 00-0026)</b>		
26 27 26 00-0117	EA		15/20 Amp, 125 Volt Corrosion Resistant, Power Receptacles.....	84.57	10.78
26 27 26 00-0118	EA		15/20 Amp, 250 Volt Corrosion Resistant, Power Receptacles.....	175.85	13.47
<b>26 27 26 00-0119</b>			<b>Tamper Resistant Receptacle (26 27 26 00-0026)</b>		
26 27 26 00-0120	EA		15 Amp, 125 Volt Duplex Tamper Resistant Receptacle..... Note: Pass & Seymour 3232-TR.	24.66	10.78
26 27 26 00-0121	EA		20 Amp, 125 Volt Duplex Tamper Resistant Receptacle..... Note: Pass & Seymour TR20.	26.26	10.78
26 27 26 00-0122	EA		15 Amp, 125 Volt Single Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour TR5251.	30.84	10.78
26 27 26 00-0123	EA		20 Amp, 125 Volt Single Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour TR5351.	33.00	10.78
26 27 26 00-0124	EA		15 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Tamper Resistant Receptacle..... Note: Pass & Seymour S1595-TR*CC8.	45.93	10.78
26 27 26 00-0125	EA		15 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle..... Note: Pass & Seymour 1595-TRS.	49.01	10.78



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0126 EA 20 Amp, 125 Volt Duplex Ground Fault Circuit Interrupter (GFCI), Specification Grade Tamper Resistant Receptacle.....	51.95	10.78
Note: Pass & Seymour 2095-TRS.		
<b>26 27 26 00-0127 USB Charger/Duplex Tamper-Resistant Receptacles</b> <small>(26 27 26 00-0026)</small>		
26 27 26 00-0128 EA 15 Amp, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	47.08	10.78
26 27 26 00-0129 EA 20 Amp, 125 Volt Duplex USB Charger/Duplex Tamper-Resistant Receptacle.....	50.27	10.78
<b>26 27 26 00-0130 Television Receptacle</b> <small>(26 27 26 00-0001)</small>		
26 27 26 00-0131 EA TV Receptacle With Cover (Type F) - Complete.....	76.56	25.00
<b>26 27 26 00-0132 Switches</b> <small>(26 27 26)</small>		
<b>26 27 26 00-0133 Switches</b> <small>(26 27 26 00-0132)</small>		
<b>26 27 26 00-0134 Switch Assemblies</b> <small>(26 27 26 00-0133)</small>		
Note: Includes 4" square steel box, bracket, mud ring, switch and cover plate.		
26 27 26 00-0135 EA 1 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly .....	89.51	37.71
26 27 26 00-0136 EA 1 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly .....	96.63	40.95
26 27 26 00-0137 EA 2 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly .....	122.97	49.29
26 27 26 00-0138 EA 2 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly .....	135.06	54.68
26 27 26 00-0139 EA 3 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly .....	207.99	84.59
26 27 26 00-0140 EA 3 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly .....	226.11	92.67
26 27 26 00-0141 EA 4 Gang, 15 Amp, 120/277 Volt, SPST, Switch Assembly .....	241.11	95.63
26 27 26 00-0142 EA 4 Gang, 20 Amp, 120/277 Volt, SPST, Switch Assembly .....	265.28	106.40
<b>26 27 26 00-0143 Switch Components</b> <small>(26 27 26 00-0133)</small>		
26 27 26 00-0144 EA 15 Amp, 120/277 Volt, SPST Switch .....	31.24	10.78
26 27 26 00-0145 EA 15 Amp, 120/277 Volt, 3-Way Switch .....	39.67	13.47
26 27 26 00-0146 EA 15 Amp, 120/277 Volt, 4-Way Switch .....	80.04	21.55
26 27 26 00-0147 EA 15 Amp, 120/277 Volt, DPST Switch .....	36.88	10.78
26 27 26 00-0148 EA 15 Amp, 120/277 Volt, Thermal Switch.....	75.11	13.47
26 27 26 00-0149 EA 20 Amp, 120/277 Volt, SPST Switch .....	37.28	13.47
26 27 26 00-0150 EA 20 Amp, 120/277 Volt, 3-Way Switch .....	46.47	16.17
26 27 26 00-0151 EA 20 Amp, 120/277 Volt, 4-Way Switch .....	113.57	21.55
26 27 26 00-0152 EA 20 Amp, 120/277 Volt, DPST Switch .....	46.32	13.47
26 27 26 00-0153 EA 20 Amp, 120/277 Volt, DPDT Switch.....	50.32	13.47
26 27 26 00-0154 EA 15 Amp, 120/277 Volt, Single Pole, Momentary Contact Switch, Toggle, Three Position, Center Off .....	51.64	13.49
26 27 26 00-0155 EA 15 Amp, 120/277 Volt, Momentary Contact Switch, Key Operated, Single Pole, Three Position, Center Off .....	63.81	13.49
26 27 26 00-0156 EA Momentary Contact Switch With Separate Neon Pilot.....	50.85	16.19
Note: Neon Pilot is 125 V, 1 / 125W.		
26 27 26 00-0157 EA 20 Amp, 125 Volt AC, Single Pole, Maintained Contact Switch With Center Off .....	57.78	18.85
Note: Or 250 VAC 10 Amp, double throw BAT handle.		
26 27 26 00-0158 EA 20 Amp, 125 Volt AC, Double Pole, Maintained Contact Switch.....	72.34	21.55
Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0159 EA 20 Amp, 125 Volt AC, Three Pole, Maintained Contact Switch.....	113.65	21.55
Note: Or 250 VAC 10 Amp, with center off double throw BAT handle.		
26 27 26 00-0160 EA 30 Amp, 120/277 Volt, Single Pole Local Switch .....	54.80	21.57
26 27 26 00-0161 EA 30 Amp, 120/277 Volt, Double Pole Local Switch.....	65.74	21.57
26 27 26 00-0162 EA 30 Amp, 120/277 Volt, Three-Way Local Switch.....	70.34	26.97
26 27 26 00-0163 EA 30 Amp, 120/277 Volt, Four-Way Local Switch.....	95.32	29.67
26 27 26 00-0164 EA 15 Amp, 120/277 Volt, Local Switch With Neon Pilot.....	93.27	17.64
26 27 26 00-0165 EA 15 Amp, 120/277 Volt, Local Switch With Separate Neon Pilot.....	69.94	17.64
Note: Neon pilot is 125V, 1/25W. Requires 2 gang installation.		
26 27 26 00-0166 EA 15 Amp, 120 Volt, Single Pole Lighted Toggle Switch, Clear Toggle, Lighted In On Position .....	62.76	17.64
26 27 26 00-0167 EA 15 Amp, 120 Volt, Lighted Toggle Switch, Ivory Toggle, Lighted In Off Position .....	60.28	17.64
26 27 26 00-0168 EA Automatic Door Switch, Door Open-Light On, 6 Amp, 125 Volt.....	58.92	8.74
26 27 26 00-0169 EA Automatic Door Switch, Door Closed-Light On, 6 Amp, 125 Volt.....	62.27	8.74
26 27 26 00-0170 EA 15 Amp, 120/277 Volt, Single Pole Momentary Contact Switch, Three Position, Center Off, Toggle.....	71.81	33.66
26 27 26 00-0171 EA Momentary Contact Switch, Three Position, Center Off, Key Operated .....	83.98	33.66
Note: 15A, 120/277 V, Single Pole		
26 27 26 00-0172 EA Single Pole, Slide Dimmer (Leviton IP710-LFZ) .....	93.46	10.79
26 27 26 00-0173 EA 8 Amp, 120/277 Volt, 0-10 Volt Dimmer LED Control Switch, White (Lutron DVSTV-WH).....	89.20	10.79
26 27 26 00-0174 EA Sunrise Electronic Wall Dimmer, 1200VA 0-10V LED and Fluorescent (Philips SR1200ZTUNV).....	95.46	10.79
26 27 26 00-0175 EA 1 Zone, 2 Button Wireless Scheduling Switch (LG 9SSA2B1T520.ALWB000) .....	110.43	10.79
26 27 26 00-0176 EA 2 Zone, 4 Button Wireless Scheduling Switch (LG 9SSA2B2T520.ALWB000) .....	143.09	10.79
<b>26 27 26 00-0177 Specialty Switches</b> <small>(26 27 26 00-0132)</small>		
<b>26 27 26 00-0178 Dimmers With SPST Switch</b> <small>(26 27 26 00-0177)</small>		
26 27 26 00-0179 EA 600 Watt Dimmers With SPST Switch .....	69.43	24.24
26 27 26 00-0180 EA 1,000 Watt Dimmers With SPST Switch .....	134.79	24.24
26 27 26 00-0181 EA 1,500 Watt Dimmers With SPST Switch .....	246.82	39.01
26 27 26 00-0182 EA 2,000 Watt Dimmers With SPST Switch .....	330.22	39.01
26 27 26 00-0183 EA 600 Watt Fluorescent Dimmer Switch.....	177.72	28.77
26 27 26 00-0184 EA 1,000 Watt Fluorescent Dimmer Switch.....	249.48	28.77
26 27 26 00-0185 EA 1,500 Watt Fluorescent Dimmer Switch.....	459.15	43.42

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 27 Low-Voltage Distribution Equipment**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0186	EA		Remote Speed Switch For Paddle Fan .....	117.94	35.88
26 27 26 00-0187	EA		600 Watt Combination Remote Speed Switch/Incandescent Dimmer .....	199.47	53.55
<b>26 27 26 00-0188</b>			<b>Time Switches</b> <small>(26 27 26 00-0177)</small>		
26 27 26 00-0189	EA		40 Amp, SPST, 125 Volt, Standard Time Switch .....	140.15	32.33
26 27 26 00-0190	EA		40 Amp, SPST, 277 Volt, Standard Time Switch .....	143.92	32.33
26 27 26 00-0191	EA		40 Amp, DPST, 125 Volt, Standard Time Switch .....	140.15	32.33
26 27 26 00-0192	EA		40 Amp, DPST, 277 Volt, Standard Time Switch .....	143.92	32.33
26 27 26 00-0193	EA		40 Amp, SPST, 125 Volt, 7-Day Time Switch .....	165.32	32.33
26 27 26 00-0194	EA		40 Amp, SPST, 277 Volt, 7-Day Time Switch .....	165.32	32.33
26 27 26 00-0195	EA		40 Amp, DPDT, 125 Volt, 7-Day Time Switch.....	313.80	32.33
26 27 26 00-0196	EA		40 Amp, DPDT, 277 Volt, 7-Day Time Switch.....	313.80	32.33
26 27 26 00-0197	EA		20 Amp, SPST, 125 Volt, Programmable Time Switch .....	266.16	32.33
26 27 26 00-0198	EA		20 Amp, SPST, 277 Volt, Programmable Time Switch .....	295.25	32.33
26 27 26 00-0199	EA		20 Amp, SPST, 277 Volt, Programmable Time Switch - Weatherproof .....	295.25	32.33
26 27 26 00-0200	EA		40 Amp, 4PST, 125 Volt, Astro Dial Time Switch .....	364.00	32.33
26 27 26 00-0201	EA		40 Amp, 4PST, 277 Volt, Astro Dial Time Switch .....	375.58	32.33
26 27 26 00-0202	EA		40 Amp, SPST, 125 Volt, Standard Time Switch - Weatherproof .....	140.15	32.33
26 27 26 00-0203	EA		40 Amp, SPST, 277 Volt, Standard Time Switch - Weatherproof .....	143.92	32.33
26 27 26 00-0204	EA		40 Amp, DPST, 125 Volt, Standard Time Switch - Weatherproof .....	140.15	32.33
26 27 26 00-0205	EA		40 Amp, DPST, 277 Volt, Standard Time Switch - Weatherproof .....	143.92	32.33
26 27 26 00-0206	EA		40 Amp, SPST, 125 Volt, 7-Day Time Switch - Weatherproof .....	165.32	32.33
26 27 26 00-0207	EA		40 Amp, SPST, 277 Volt, 7-Day Time Switch - Weatherproof .....	165.32	32.33
26 27 26 00-0208	EA		40 Amp, DPDT, 125 Volt, 7-Day Time Switch - Weatherproof.....	313.80	32.33
26 27 26 00-0209	EA		40 Amp, DPDT, 277 Volt, 7-Day Time Switch - Weatherproof .....	313.80	32.33
26 27 26 00-0210	EA		40 Amp, 4PST, 125 Volt, Astro Dial Time Switch - Weatherproof.....	364.00	32.33
26 27 26 00-0211	EA		40 Amp, 4PST, 277 Volt, Astro Dial Time Switch - Weatherproof.....	375.58	32.33
<b>26 27 26 00-0212</b>			<b>Low Voltage Switching</b> <small>(26 27 26 00-0177)</small>		
26 27 26 00-0213	EA		36 Pin Male Or Female Connector.....	265.64	10.78
<b>26 27 26 00-0214</b>			<b>Other Switches</b> <small>(26 27 26 00-0177)</small>		
26 27 26 00-0215	EA		Pull Chain Switch 120/277 Volt AC Installed In Light Fixture .....	37.00	16.17
26 27 26 00-0216	EA		Locking Switch, SPST Concealed Devices.....	118.67	43.10
26 27 26 00-0217	EA		Locking Switch, 3-Way Concealed Devices.....	120.68	43.10
26 27 26 00-0218	EA		Emergency Off Switch, With 1 Non-Closing Contact, Circular, Red, With Guard.....	138.09	40.30
26 27 26 00-0219	EA		15 Amp Momentary Contact Switch.....	129.85	40.30
26 27 26 00-0220	EA		20 Amp Momentary Contact Switch.....	138.53	40.30
26 27 26 00-0221	EA		2-1/4" Handy Box Cover Units Fuseholder Switch.....	121.31	48.55
26 27 26 00-0222	EA		2-3/4" Handy Box Cover Units Fuseholder Switch.....	123.74	48.55
26 27 26 00-0223	EA		4" Square Box Cover Units With 2 Fuseholders And 2 Switches.....	152.58	59.34
26 27 26 00-0224	EA		4" Square Box Cover Units With 1 Fuseholder And 1 Switch .....	138.76	53.94
26 27 26 00-0225	EA		4" Octagon Box Cover Units With 1 Fuseholder And 1 Switch .....	139.37	53.94
<b>26 27 26 00-0226</b>			<b>Plates And Covers</b> <small>(26 27 26)</small>		
<b>26 27 26 00-0227</b>			<b>Wall Plates</b> <small>(26 27 26 00-0226)</small>		
<b>26 27 26 00-0228</b>			<b>Nylon Wall Plates</b> <small>(26 27 26 00-0227)</small>		
26 27 26 00-0229	EA		1 Gang Nylon Switch Plate .....	1.48	0.54
26 27 26 00-0230	EA		2 Gang Nylon Switch Plate .....	2.41	0.81
26 27 26 00-0231	EA		3 Gang Nylon Switch Plate .....	3.38	1.08
26 27 26 00-0232	EA		4 Gang Nylon Switch Plate .....	4.72	1.34
26 27 26 00-0233	EA		1 Gang Duplex Nylon Wall Plate .....	1.49	0.54
26 27 26 00-0234	EA		2 Gang Duplex Nylon Wall Plate.....	2.45	0.81
<b>26 27 26 00-0235</b>			<b>Plastic Wall Plates</b> <small>(26 27 26 00-0227)</small>		
26 27 26 00-0236	EA		1 Gang Plastic Switch Plate.....	1.40	0.54
26 27 26 00-0237	EA		2 Gang Plastic Switch Plate .....	2.25	0.81
26 27 26 00-0238	EA		3 Gang Plastic Switch Plate .....	3.13	1.08
26 27 26 00-0239	EA		4 Gang Plastic Switch Plate .....	4.72	1.34
26 27 26 00-0240	EA		1 Gang Duplex Plastic Wall Plate.....	1.40	0.54
26 27 26 00-0241	EA		2 Gang Duplex Plastic Wall Plate .....	2.25	0.81
<b>26 27 26 00-0242</b>			<b>Brass Wall Plates</b> <small>(26 27 26 00-0227)</small>		
26 27 26 00-0243	EA		1 Gang 0.04" Brass Switch Plate .....	12.36	2.43
26 27 26 00-0244	EA		2 Gang 0.04" Brass Switch Plate .....	21.90	2.81
26 27 26 00-0245	EA		3 Gang 0.04" Brass Switch Plate .....	31.34	3.13
26 27 26 00-0246	EA		4 Gang 0.04" Brass Switch Plate .....	47.69	3.40
26 27 26 00-0247	EA		5 Gang 0.04" Brass Switch Plate .....	57.71	3.61
26 27 26 00-0248	EA		6 Gang 0.04" Brass Switch Plate .....	66.49	3.77
26 27 26 00-0249	EA		1 Gang 0.04" Brass Duplex Receptacle Wall Plate.....	12.36	2.43
26 27 26 00-0250	EA		2 Gang 0.04" Brass Duplex Receptacle Wall Plate .....	25.32	2.81
26 27 26 00-0251	EA		3 Gang 0.04" Brass Duplex Receptacle Wall Plate.....	35.84	3.13





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 27 26 00-0252</b>	<b>Stainless Steel Wall Plates (26 27 26 00-0227)</b>	
26 27 26 00-0253 EA 1 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	7.42	2.43
26 27 26 00-0254 EA 2 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	11.12	2.81
26 27 26 00-0255 EA 3 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	14.97	3.13
26 27 26 00-0256 EA 4 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	21.10	3.40
26 27 26 00-0257 EA 5 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	24.56	3.61
26 27 26 00-0258 EA 6 Gang, 302 Stainless Steel Switch Plate With Satin Finish.....	29.27	3.77
26 27 26 00-0259 EA 1 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish .....	7.96	2.43
26 27 26 00-0260 EA 2 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish .....	12.40	2.81
26 27 26 00-0261 EA 3 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish .....	19.20	3.13
26 27 26 00-0262 EA 4 Gang, 302 Stainless Steel Duplex Receptacle Wall Plate With Satin Finish .....	22.93	3.40
<b>26 27 26 00-0263</b>	<b>Chrome Wall Plates (26 27 26 00-0227)</b>	
26 27 26 00-0264 EA 1 Gang 0.040" Chrome Switch Plate With Chromium Finish .....	22.98	2.43
26 27 26 00-0265 EA 2 Gang 0.040" Chrome Switch Plate With Chromium Finish .....	41.81	2.81
26 27 26 00-0266 EA 3 Gang 0.040" Chrome Switch Plate With Chromium Finish .....	60.57	3.13
26 27 26 00-0267 EA 1 Gang 0.040" Chrome Duplex Receptacle Wall Plate With Chromium Finish.....	22.96	2.43
<b>26 27 26 00-0268</b>	<b>Weatherproof Covers (26 27 26 00-0226)</b>	
<b>26 27 26 00-0269</b>	<b>Stamped Metallic Weatherproof Covers (26 27 26 00-0268)</b>	
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0270 EA Blank Cover, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FBC).....	8.07	0.54
26 27 26 00-0271 EA Duplex Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FAC).....	8.72	0.54
26 27 26 00-0272 EA Single Receptacle, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FRC).....	8.72	0.54
26 27 26 00-0273 EA Toggle Switch, Single Gang, Stamped Metallic Weatherproof Cover (Killark® 1FTC) .....	8.72	0.54
26 27 26 00-0274 EA Blank Cover, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FBC) .....	10.77	0.81
26 27 26 00-0275 EA Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FAC).....	12.16	0.81
26 27 26 00-0276 EA Single Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FRC).....	12.30	0.81
26 27 26 00-0277 EA Toggle Switch, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTC).....	12.30	0.81
26 27 26 00-0278 EA Toggle Switch And Duplex Receptacle, Two Gang, Stamped Metallic Weatherproof Cover (Killark® 2FTAC).....	16.56	0.81
26 27 26 00-0279 EA Blank Cover, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FB) .....	15.88	1.08
26 27 26 00-0280 EA Toggle Switch, Three Gang, Stamped Metallic Weatherproof Cover (Killark® 3FT) .....	17.31	1.08
<b>26 27 26 00-0281</b>	<b>Cast Metallic Weatherproof Covers (26 27 26 00-0268)</b>	
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0282 EA Blank Cover, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSBC).....	9.81	0.54
26 27 26 00-0283 EA Duplex Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLA).....	30.65	0.54
26 27 26 00-0284 EA Single Receptacle, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLR).....	34.34	0.54
26 27 26 00-0285 EA Guarded Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSTG).....	9.74	0.54
26 27 26 00-0286 EA Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover With Self Closing Lid (Killark® FCLT) .....	26.03	0.54
26 27 26 00-0287 EA Lever Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FSPT) .....	43.10	0.54
26 27 26 00-0288 EA Plunger Operated Toggle Switch, Single Gang, Cast Metallic Weatherproof Cover (Killark® FST) .....	54.79	0.54
26 27 26 00-0289 EA Blank Cover, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FSBC).....	12.30	0.81
26 27 26 00-0290 EA Plunger Operated Toggle Switch, Two Gang, Cast Metallic Weatherproof Cover (Killark® 2FST) .....	86.51	0.81
26 27 26 00-0291 EA Blank Cover, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FSBC) .....	20.45	1.08
26 27 26 00-0292 EA Plunger Operated Toggle Switch, Three Gang, Cast Metallic Weatherproof Cover (Killark® 3FST).....	82.83	1.08
<b>26 27 26 00-0293</b>	<b>Die Cast Aluminum Weatherproof Covers (26 27 26 00-0268)</b>	
Note: Includes electrostatically applied powder coating and neoprene gasket.		
26 27 26 00-0294 EA Duplex Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5027) .....	3.53	0.54
26 27 26 00-0295 EA Single Receptacle, Single Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5026).....	4.43	0.54
26 27 26 00-0296 EA Duplex Receptacles, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5032).....	5.99	0.81
26 27 26 00-0297 EA Toggle Switch, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5041).....	6.46	0.81
26 27 26 00-0298 EA Toggle Switch And Duplex Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5042) .....	6.46	0.81
26 27 26 00-0299 EA Toggle Switch And Single Receptacle, Two Gang, Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Bell® 5043) .....	7.13	0.81
<b>26 27 26 00-0300</b>	<b>Heavy Duty Die Cast Aluminum Weatherproof Covers (26 27 26 00-0268)</b>	
Note: Includes baked on lacquer finish and neoprene gasket.		
26 27 26 00-0301 EA Duplex Receptacle, Single Gang, Heavy Duty Die Cast Aluminum Weatherproof Cover With Self Closing Lid (Pass & Seymour Legrand® 4510).....	32.73	0.54
<b>26 27 26 00-0302</b>	<b>Polycarbonate Weatherproof Covers (26 27 26 00-0268)</b>	
Note: Includes neoprene gasket.		
26 27 26 00-0303 EA Toggle Switch, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730).....	6.88	0.54
26 27 26 00-0304 EA Duplex Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730) .....	6.88	0.54
26 27 26 00-0305 EA Single Receptacle, Single Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5730) .....	6.88	0.54
26 27 26 00-0306 EA Duplex Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775) .....	8.59	0.81
26 27 26 00-0307 EA Toggle Switch And Single Receptacle, Two Gang, Polycarbonate Weatherproof Cover With Tinted Lid (Bell® 5775) .....	8.59	0.81

26 Electrical

26 20 Low-Voltage Electrical Distribution

26 27 Low-Voltage Distribution Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 27 26 00-0308			<b>High Impact Thermoplastic Weatherproof Covers</b> <small>(26 27 26 00-0268)</small> Note: Includes neoprene gasket.		
26 27 26 00-0309	EA		Duplex Receptacle, Single Gang, High Impact Thermoplastic Weatherproof Cover With Self Closing Lid (Hubbell® HBL522) .....	49.32	0.54
26 27 26 00-0310			<b>Non Metallic (PVC) Weatherproof Covers</b> <small>(26 27 26 00-0268)</small> Note: Includes neoprene gasket.		
26 27 26 00-0311	EA		Blank Cover, Single Gang, Non Metallic (PVC) Weatherproof Cover .....	7.58	0.54
26 27 26 00-0312	EA		Blank Cover, Two Gang, Non Metallic (PVC) Weatherproof Cover .....	8.31	0.81
26 27 26 00-0313	EA		Toggle Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover .....	7.61	0.54
26 27 26 00-0314	EA		Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover .....	16.28	0.54
26 27 26 00-0315	EA		Duplex Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover .....	18.80	0.54
26 27 26 00-0316	EA		20 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover .....	15.32	0.54
26 27 26 00-0317	EA		30 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover .....	11.52	0.54
26 27 26 00-0318	EA		50 Amp Receptacle, Single Gang, Non Metallic (PVC) Weatherproof Cover .....	13.41	0.54
26 27 26 00-0319	EA		Plunger Switch, Single Gang, Non Metallic (PVC) Weatherproof Cover .....	12.03	0.54
26 27 26 00-0320	EA		Double Duplex Receptacle, Two Gang, Non Metallic (PVC) Weatherproof Cover .....	17.34	0.81
26 27 26 00-0321			<b>Removal And Reinstallation Of Wiring Devices</b> <small>(26 27 26)</small> Note: Includes storage and cleaning.		
26 27 26 00-0322	EA		Removal And Reinstallation Of Receptacle, Switch, Outlet Or Special System Device .....	70.89	
26 27 26 00-0323	EA		Removal And Reinstallation Of Receptacle Or Switch Outlet Cover Plate .....	8.98	
26 27 26 00-0324			<b>Relay Systems</b> <small>(26 27 26)</small>		
26 27 26 00-0325	EA		Relay 2 Position, 10 Amp, 24 Volt Coil .....	71.22	24.24
26 27 26 00-0326	EA		Industrial Control Relay 20 Amp, 120 Volt Coil Up To 4 Contacts .....	278.90	80.81
26 27 26 00-0327	EA		Industrial Control Relay 20 Amp, 120 Volt Coil 12 Contacts .....	450.23	107.76
26 27 26 00-0328			<b>Limit Switches</b> <small>(26 27 26)</small>		
26 27 26 00-0329			<b>Heavy Duty Precision Oiltight</b> <small>(26 27 26 00-0328)</small>		
26 27 26 00-0330			<b>Lever Arm, Plunger, Wobble Stick Type</b> <small>(26 27 26 00-0329)</small>		
26 27 26 00-0331	EA		Limit Switch, Heavy Duty, Lever Arm Weatherproof, 10 Amp Rated .....	383.95	67.89
26 27 26 00-0332			<b>In Line Midget Fuseholders</b> <small>(26 27 26)</small> See CSI section 26 28 13 00-0078 for fuses.		
26 27 26 00-0333	EA		Single Pole Water Resistant In Line Midget Fuseholder .....	65.07	
26 27 26 00-0334	EA		Double Pole Water Resistant In Line Midget Fuseholder .....	129.32	
26 27 73			<b>Door Chimes</b> <small>(26 27)</small>		
26 27 73 00-0001			<b>Door Chimes</b> <small>(26 27 73)</small>		
26 27 73 00-0002	EA		Door Bell, Push-button And Transformer - Complete .....	652.92	224.45
26 27 73 00-0003	EA		Visual Flashing Doorbell Indicator, Wire To Existing System - Complete .....	299.26	53.87
26 27 73 00-0004	EA		Replacement Bell/Buzzer - Complete .....	116.78	26.94
			Note: Includes removal of existing.		
26 28			<b>Low-Voltage Circuit Protective Devices</b> <small>(26 20)</small>		
26 28 13			<b>Fuses</b> <small>(26 28)</small>		
26 28 13 00-0001			<b>125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuses</b> <small>(26 28 13)</small>		
26 28 13 00-0002	EA		1 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse .....	22.35	7.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	5.17	
26 28 13 00-0003	EA		2 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse .....	21.94	7.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	5.17	
26 28 13 00-0004	EA		3 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse .....	21.39	7.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	5.17	
26 28 13 00-0005	EA		5 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse .....	21.31	7.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	5.17	
26 28 13 00-0006	EA		6 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse .....	21.83	7.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	5.17	
26 28 13 00-0007	EA		8 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse .....	20.82	7.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	5.17	
26 28 13 00-0008	EA		10 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse .....	20.58	7.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	5.17	
26 28 13 00-0009	EA		15 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse .....	18.61	7.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	5.17	
26 28 13 00-0010	EA		20 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse .....	18.31	7.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	5.17	
26 28 13 00-0011	EA		25 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse .....	18.88	7.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	5.17	
26 28 13 00-0012	EA		30 Amp, 125 Volt AC, Type T Dual Element, Time Delay, Edison Base Plug Fuse .....	18.48	7.75
			<i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i> .....	5.17	



**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 28 Low-Voltage Circuit Protective Devices**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0052 EA 10 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	41.83 5.17	7.75
26 28 13 00-0053 EA 15 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.24 5.17	7.75
26 28 13 00-0054 EA 20 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.98 5.17	7.75
26 28 13 00-0055 EA 25 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.63 5.17	7.75
26 28 13 00-0056 EA 30 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.15 5.17	7.75
26 28 13 00-0057 EA 35 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.53 5.17	7.75
26 28 13 00-0058 EA 40 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.65 5.17	7.75
26 28 13 00-0059 EA 45 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	53.68 5.17	7.75
26 28 13 00-0060 EA 50 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.14 5.17	7.75
26 28 13 00-0061 EA 60 Amp, 600 Volt AC, 200 kAmp I.R., Ferrule Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	54.54 5.17	7.75
<b>26 28 13 00-0062 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuses <sup>(26 28)</sup></b>		
<sup>13 00-0013</sup> 26 28 13 00-0063 EA 70 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	99.06 6.47	9.70
26 28 13 00-0064 EA 80 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.98 7.11	10.67
26 28 13 00-0065 EA 90 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.47 7.11	10.67
26 28 13 00-0066 EA 100 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	101.87 7.11	10.67
26 28 13 00-0067 EA 110 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	180.68 7.11	10.67
26 28 13 00-0068 EA 125 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	183.30 7.11	10.67
26 28 13 00-0069 EA 150 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.71 8.73	13.14
26 28 13 00-0070 EA 200 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	182.28 8.73	13.14
26 28 13 00-0071 EA 250 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	339.34 8.73	13.14
26 28 13 00-0072 EA 300 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	343.38 10.67	16.06
26 28 13 00-0073 EA 350 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	385.80 10.67	16.06
26 28 13 00-0074 EA 400 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	350.59 10.67	16.06
26 28 13 00-0075 EA 450 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	620.90 10.67	16.06
26 28 13 00-0076 EA 500 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	556.68 12.93	19.39
26 28 13 00-0077 EA 600 Amp, 600 Volt AC, 200 kAmp I.R., Blade Type, Class RK1, Time Delay Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	487.24 12.93	19.39
<b>26 28 13 00-0078 600 Volt AC, Class CC Midget Fuses <sup>(26 28 13)</sup></b> Note: 250/300 Volt DC.		
26 28 13 00-0079 EA 1 Amp, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.08 5.17	7.75
26 28 13 00-0080 EA 2 Amp, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.55 5.17	7.75
26 28 13 00-0081 EA 3 Amp, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.42 5.17	7.75
26 28 13 00-0082 EA 5 Amp, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.27 5.17	7.75
26 28 13 00-0083 EA 6 Amp, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	38.50 5.17	7.75
26 28 13 00-0084 EA 8 Amp, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.93 5.17	7.75
26 28 13 00-0085 EA 10 Amp, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	39.12 5.17	7.75
26 28 13 00-0086 EA 15 Amp, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	36.28 5.17	7.75
26 28 13 00-0087 EA 20 Amp, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.70 5.17	7.75
26 28 13 00-0088 EA 25 Amp, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	34.37 5.17	7.75
26 28 13 00-0089 EA 30 Amp, 600 Volt AC, Class CC Midget Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	35.50 5.17	7.75
<b>26 28 13 00-0090 200,000 Ampere Interrupting Capacity, 600 Volt AC, Class J Bolted Fuse <sup>(26)</sup></b> <sup>28 13)</sup>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0091 EA 1 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	43.10	5.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.23	
26 28 13 00-0092 EA 3 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	43.41	5.39
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.23	
26 28 13 00-0093 EA 6 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	38.52	6.46
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	3.88	
26 28 13 00-0094 EA 10 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	39.28	8.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.85	
26 28 13 00-0095 EA 15 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	40.02	8.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.85	
26 28 13 00-0096 EA 20 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	39.36	8.08
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	4.85	
26 28 13 00-0097 EA 25 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	50.42	10.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.47	
26 28 13 00-0098 EA 30 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	43.01	10.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.47	
26 28 13 00-0099 EA 35 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	70.68	10.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.47	
26 28 13 00-0100 EA 40 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	61.15	10.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.47	
26 28 13 00-0101 EA 45 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	69.22	10.78
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	6.47	
26 28 13 00-0102 EA 50 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	63.64	13.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.08	
26 28 13 00-0103 EA 60 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	62.61	13.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.08	
26 28 13 00-0104 EA 70 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	94.55	16.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.70	
26 28 13 00-0105 EA 80 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	100.21	16.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.70	
26 28 13 00-0106 EA 90 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	98.77	16.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.70	
26 28 13 00-0107 EA 100 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	89.14	18.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 28 13 00-0108 EA 110 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	194.69	18.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 28 13 00-0109 EA 125 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	167.03	18.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 28 13 00-0110 EA 150 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	161.25	21.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 28 13 00-0111 EA 175 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	163.45	21.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 28 13 00-0112 EA 200 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	137.72	21.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 28 13 00-0113 EA 225 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	330.14	21.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 28 13 00-0114 EA 250 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	306.13	21.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 28 13 00-0115 EA 300 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	283.02	21.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 28 13 00-0116 EA 350 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	307.62	21.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	
26 28 13 00-0117 EA 400 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	257.54	24.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.55	
26 28 13 00-0118 EA 450 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	531.94	24.24
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	14.55	
26 28 13 00-0119 EA 500 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	455.02	26.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.16	
26 28 13 00-0120 EA 600 Amp, 600 Volt AC, 200 kAmp I.R., Class J Bolted Fuse.....	342.29	26.94
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	16.16	
<b>26 28 13 00-0121 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuses (26 28 13)</b>		
26 28 13 00-0122 EA 100 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	999.51	13.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.08	
26 28 13 00-0123 EA 150 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,001.47	13.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.08	
26 28 13 00-0124 EA 200 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,003.29	13.47
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	8.08	
26 28 13 00-0125 EA 250 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,001.67	16.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.70	
26 28 13 00-0126 EA 300 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	923.27	16.17
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	9.70	
26 28 13 00-0127 EA 350 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	988.82	18.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 28 13 00-0128 EA 400 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	910.98	18.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 28 13 00-0129 EA 450 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	1,017.57	18.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 28 13 00-0130 EA 500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	997.93	18.85
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	11.31	
26 28 13 00-0131 EA 600 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse.....	890.43	21.55
For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add	12.93	

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 28</b>	<b>Low-Voltage Circuit Protective Devices</b>



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 13 00-0132	EA		601 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	914.05 12.93	21.55
26 28 13 00-0133	EA		650 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,210.96 12.93	21.55
26 28 13 00-0134	EA		700 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	886.14 12.93	21.55
26 28 13 00-0135	EA		750 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,355.40 14.54	24.24
26 28 13 00-0136	EA		800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	786.89 14.54	24.24
26 28 13 00-0137	EA		900 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,142.36 14.54	24.24
26 28 13 00-0138	EA		1,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	773.90 14.54	24.24
26 28 13 00-0139	EA		1,200 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	796.50 14.54	24.24
26 28 13 00-0140	EA		1,350 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,752.72 14.54	24.24
26 28 13 00-0141	EA		1,400 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,728.30 14.54	24.24
26 28 13 00-0142	EA		1,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,560.76 14.54	24.24
26 28 13 00-0143	EA		1,600 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	982.27 16.16	26.94
26 28 13 00-0144	EA		1,800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,063.44 16.16	26.94
26 28 13 00-0145	EA		2,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,326.89 16.16	26.94
26 28 13 00-0146	EA		2,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,787.99 16.16	26.94
26 28 13 00-0147	EA		2,501 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	3,034.36 16.16	26.94
26 28 13 00-0148	EA		3,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	1,992.98 17.78	29.63
26 28 13 00-0149	EA		3,500 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,102.12 17.78	29.63
26 28 13 00-0150	EA		3,800 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,756.97 17.78	29.63
26 28 13 00-0151	EA		4,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	2,758.31 17.78	29.63
26 28 13 00-0152	EA		5,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	4,342.57 17.78	29.63
26 28 13 00-0153	EA		6,000 Amp, 600 Volt AC, 200 kAmp I.R., Class L Bolted Fuse..... <i>For Personal Protective Equipment (Arc Flash) When Working On Energized Equipment, Add</i>	7,176.79 17.78	29.63
<b>26 28 16 Enclosed Switches And Circuit Breakers (26 28)</b>					
26 28 16 00-0001			<b>Motor And Circuit Disconnects (26 28 16)</b> Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the disconnect.		
26 28 16 00-0002			<b>NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0001)</b>		
26 28 16 00-0003			<b>Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0002)</b> Note: Includes fuses and neutral bar.		
26 28 16 00-0004			<b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)</b>		
26 28 16 00-0005	EA		30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	356.69	107.76
26 28 16 00-0006	EA		60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	542.06	129.84
26 28 16 00-0007	EA		100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	732.51	151.93
26 28 16 00-0008	EA		200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,251.44	239.21
26 28 16 00-0009	EA		400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,596.69	371.74
26 28 16 00-0010	EA		600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,302.86	549.54
26 28 16 00-0011	EA		800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,821.64	646.51
26 28 16 00-0012	EA		1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,762.93	754.27
26 28 16 00-0013			<b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches (26 28 16 00-0003)</b>		
26 28 16 00-0014	EA		30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	522.09	119.72
26 28 16 00-0015	EA		60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	629.80	144.28



<b>Electrical</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20
Low-Voltage Circuit Protective Devices	26 28

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0016 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	973.09	168.63
26 28 16 00-0017 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,446.70	266.15
26 28 16 00-0018 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,078.06	412.90
26 28 16 00-0019 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,782.49	610.31
26 28 16 00-0020 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,985.68	717.96
26 28 16 00-0021 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,476.94	838.09
<b>26 28 16 00-0022 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0003)</small></b>		
26 28 16 00-0023 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	515.00	169.17
26 28 16 00-0024 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	747.06	224.67
26 28 16 00-0025 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	981.08	249.45
26 28 16 00-0026 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,549.99	390.60
26 28 16 00-0027 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,139.95	641.12
26 28 16 00-0028 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,038.88	898.12
<b>26 28 16 00-0029 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0003)</small></b>		
26 28 16 00-0030 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	656.77	186.95
26 28 16 00-0031 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	840.23	249.45
26 28 16 00-0032 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,197.15	280.69
26 28 16 00-0033 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,769.49	427.78
26 28 16 00-0034 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,817.92	690.69
26 28 16 00-0035 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	6,090.25	997.79
26 28 16 00-0036 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,501.95	1,185.27
26 28 16 00-0037 EA 1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	12,066.83	1,346.90
<b>26 28 16 00-0038 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0003)</small></b>		
26 28 16 00-0039 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	501.44	169.17
26 28 16 00-0040 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	729.54	224.67
26 28 16 00-0041 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	949.20	249.45
26 28 16 00-0042 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,593.83	390.60
26 28 16 00-0043 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,387.03	641.12
26 28 16 00-0044 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	5,410.60	898.12
26 28 16 00-0045 EA 800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	8,788.01	1,131.40
26 28 16 00-0046 EA 1,200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	10,789.24	1,293.03
<b>26 28 16 00-0047 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0003)</small></b>		
26 28 16 00-0048 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	706.52	186.95
26 28 16 00-0049 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	901.37	249.45
26 28 16 00-0050 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,286.54	280.69
26 28 16 00-0051 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,903.32	427.78
26 28 16 00-0052 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,103.44	690.69

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0053 EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	6,594.52	997.79
26 28 16 00-0054 EA 800 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	10,339.17	1,185.27
26 28 16 00-0055 EA 1,200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	12,971.20	1,346.90
<b>26 28 16 00-0056 Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0002)</small>		
<b>26 28 16 00-0057 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0056)</small>		
26 28 16 00-0058 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	348.11	155.92
26 28 16 00-0059 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	532.48	216.90
26 28 16 00-0060 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	717.64	249.45
26 28 16 00-0061 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,126.78	399.12
26 28 16 00-0062 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,227.37	665.15
26 28 16 00-0063 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	3,582.58	907.06
26 28 16 00-0064 EA 800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	5,048.37	1,077.52
26 28 16 00-0065 EA 1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	6,612.20	1,257.57
<b>26 28 16 00-0066 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0056)</small>		
26 28 16 00-0067 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	384.45	172.08
26 28 16 00-0068 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	602.20	243.41
26 28 16 00-0069 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	809.56	277.14
26 28 16 00-0070 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,257.48	433.81
26 28 16 00-0071 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,396.12	712.67
26 28 16 00-0072 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	3,961.83	997.68
26 28 16 00-0073 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	5,560.15	1,077.52
26 28 16 00-0074 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	7,313.07	1,257.57
<b>26 28 16 00-0075 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0056)</small>		
26 28 16 00-0076 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	413.21	140.08
26 28 16 00-0077 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	623.03	195.04
26 28 16 00-0078 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	821.78	224.67
26 28 16 00-0079 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,294.25	359.35
26 28 16 00-0080 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,533.17	598.56
26 28 16 00-0081 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	4,011.98	816.22
26 28 16 00-0082 EA 800 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	6,694.32	969.77
26 28 16 00-0083 EA 1,200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	8,659.95	1,131.40
<b>26 28 16 00-0084 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0056)</small>		
26 28 16 00-0085 EA 30 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	451.66	154.63
26 28 16 00-0086 EA 60 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	687.25	219.28
26 28 16 00-0087 EA 100 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	898.30	249.45
26 28 16 00-0088 EA 200 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	1,397.84	390.60
26 28 16 00-0089 EA 400 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch .....	2,714.10	641.12





<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0090 EA 600 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,345.19	898.12
26 28 16 00-0091 EA 800 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,032.56	969.77
<b>26 28 16 00-0092 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0056)</small></b>		
26 28 16 00-0093 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	476.90	154.84
26 28 16 00-0094 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	730.30	219.06
26 28 16 00-0095 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	968.32	249.45
26 28 16 00-0096 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,505.69	390.38
26 28 16 00-0097 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,864.96	641.34
26 28 16 00-0098 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,791.66	897.90
26 28 16 00-0099 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	7,542.60	969.77
26 28 16 00-0100 EA 1,200 Amp, 600 Volt Class, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	9,801.88	1,131.40
<b>26 28 16 00-0101 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0056)</small></b>		
26 28 16 00-0102 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	655.69	140.29
26 28 16 00-0103 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	804.89	195.25
26 28 16 00-0104 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,196.87	224.45
26 28 16 00-0105 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,807.25	359.14
<b>26 28 16 00-0106 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0056)</small></b>		
26 28 16 00-0107 EA 30 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	711.52	154.63
26 28 16 00-0108 EA 60 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	882.12	219.28
26 28 16 00-0109 EA 100 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,300.19	249.45
26 28 16 00-0110 EA 200 Amp, 480 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,947.50	390.60
<b>26 28 16 00-0111 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0056)</small></b>		
26 28 16 00-0112 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	781.79	154.84
26 28 16 00-0113 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	959.63	219.06
26 28 16 00-0114 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,439.57	249.45
26 28 16 00-0115 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,150.54	390.38
<b>26 28 16 00-0116 General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0002)</small></b>		
Note: Includes fuses and neutral bar.		
<b>26 28 16 00-0117 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0116)</small></b>		
26 28 16 00-0118 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	256.91	93.74
26 28 16 00-0119 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	342.80	112.81
26 28 16 00-0120 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	506.61	131.89
26 28 16 00-0121 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	919.85	208.07
26 28 16 00-0122 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,102.35	322.72
26 28 16 00-0123 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,869.18	477.66

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0124			<b>240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> (26 28 16 00-0116)		
26 28 16 00-0125	EA		30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	363.87	147.29
26 28 16 00-0126	EA		60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	507.31	195.25
26 28 16 00-0127	EA		100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	676.62	216.90
26 28 16 00-0128	EA		200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,183.58	339.52
26 28 16 00-0129	EA		400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,574.21	557.72
26 28 16 00-0130	EA		600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,479.15	780.77
26 28 16 00-0131			<b>240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> (26 28 16 00-0116)		
26 28 16 00-0132	EA		30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	396.66	147.29
26 28 16 00-0133	EA		60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	560.17	195.25
26 28 16 00-0134	EA		100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	724.72	216.90
26 28 16 00-0135	EA		200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,304.76	339.52
26 28 16 00-0136	EA		400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,781.34	557.72
26 28 16 00-0137	EA		600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	4,610.45	780.77
26 28 16 00-0138			<b>General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> (26 28 16 00-0002)		
26 28 16 00-0139			<b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> (26 28 16 00-0138)		
26 28 16 00-0140	EA		60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	352.20	130.38
26 28 16 00-0141	EA		100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	457.07	149.88
26 28 16 00-0142	EA		200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	983.11	239.53
26 28 16 00-0143	EA		400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,051.37	398.69
26 28 16 00-0144	EA		600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,478.25	543.29
26 28 16 00-0145			<b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switches</b> (26 28 16 00-0138)		
26 28 16 00-0146	EA		30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	332.14	121.98
26 28 16 00-0147	EA		60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	456.39	169.71
26 28 16 00-0148	EA		100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	662.90	195.25
26 28 16 00-0149	EA		200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	1,129.26	312.38
26 28 16 00-0150	EA		400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	2,295.89	520.66
26 28 16 00-0151	EA		600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Safety Switch.....	3,812.46	709.65
26 28 16 00-0152			<b>NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> (26 28 16 00-0001)		
26 28 16 00-0153			<b>Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> (26 28 16 00-0152) Note: With fuses, neutral bar, and hub if required.		
26 28 16 00-0154			<b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> (26 28 16 00-0153)		
26 28 16 00-0155	EA		30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	508.13	126.61
26 28 16 00-0156	EA		60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	783.73	151.93
26 28 16 00-0157	EA		100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	972.99	176.71



<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0158 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,429.55	269.38
26 28 16 00-0159 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,077.18	431.01
26 28 16 00-0160 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,303.40	574.86
26 28 16 00-0161 EA 800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,844.41	646.51
26 28 16 00-0162 EA 1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,343.59	754.27
<b>26 28 16 00-0163 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <sup>(26</sup></b> <small><sup>28 16 00-0153)</sup></small>		
26 28 16 00-0164 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	850.09	168.74
26 28 16 00-0165 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,015.21	206.89
26 28 16 00-0166 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,413.06	237.59
26 28 16 00-0167 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,001.66	356.33
26 28 16 00-0168 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,260.32	583.04
26 28 16 00-0169 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	7,700.17	801.78
26 28 16 00-0170 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,194.15	923.22
26 28 16 00-0171 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,342.55	1,039.27
<b>26 28 16 00-0172 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <sup>(26</sup></b> <small><sup>28 16 00-0153)</sup></small>		
26 28 16 00-0173 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	667.09	199.34
26 28 16 00-0174 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,032.73	263.99
26 28 16 00-0175 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,230.46	289.85
26 28 16 00-0176 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,834.17	448.78
26 28 16 00-0177 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,855.91	748.34
26 28 16 00-0178 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,307.57	997.79
<b>26 28 16 00-0179 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <sup>(26</sup></b> <small><sup>28 16 00-0153)</sup></small>		
26 28 16 00-0180 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	986.70	236.30
26 28 16 00-0181 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,181.11	289.64
26 28 16 00-0182 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,553.86	332.52
26 28 16 00-0183 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,265.06	498.89
26 28 16 00-0184 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,653.53	816.33
26 28 16 00-0185 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,230.86	1,122.45
26 28 16 00-0186 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,504.31	1,293.03
26 28 16 00-0187 EA 1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,725.09	1,454.65
<b>26 28 16 00-0188 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <sup>(26</sup></b> <small><sup>28 16 00-0153)</sup></small>		
26 28 16 00-0189 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	722.69	199.34
26 28 16 00-0190 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,034.34	263.99
26 28 16 00-0191 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,308.63	289.85
26 28 16 00-0192 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,886.31	448.78

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 28 Low-Voltage Circuit Protective Devices**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0193 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,903.73	748.34
26 28 16 00-0194 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	6,833.64	997.79
26 28 16 00-0195 EA 800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,140.62	1,131.40
26 28 16 00-0196 EA 1,200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	13,828.90	1,293.03
<b>26 28 16 00-0197 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 00-0153)</sup>		
26 28 16 00-0198 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,018.59	236.52
26 28 16 00-0199 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,216.97	289.85
26 28 16 00-0200 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,633.57	332.41
26 28 16 00-0201 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,316.88	498.89
26 28 16 00-0202 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	4,840.84	816.22
26 28 16 00-0203 EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,446.07	1,122.24
26 28 16 00-0204 EA 800 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	12,181.98	1,293.03
26 28 16 00-0205 EA 1,200 Amp, 600 Volt Class, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	14,618.34	1,454.65
<b>26 28 16 00-0206 Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 00-0152)</sup>		
<b>26 28 16 00-0207 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 00-0206)</sup>		
26 28 16 00-0208 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	477.78	110.88
26 28 16 00-0209 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	766.58	153.54
26 28 16 00-0210 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	995.22	176.06
26 28 16 00-0211 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,349.17	285.11
26 28 16 00-0212 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	2,925.52	475.62
26 28 16 00-0213 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,220.23	634.12
26 28 16 00-0214 EA 800 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,267.85	754.59
26 28 16 00-0215 EA 1,200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	10,848.83	862.33
<b>26 28 16 00-0216 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 00-0206)</sup>		
26 28 16 00-0217 EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	536.63	122.19
26 28 16 00-0218 EA 60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	867.29	171.00
26 28 16 00-0219 EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,120.96	193.09
26 28 16 00-0220 EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,488.98	299.34
26 28 16 00-0221 EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	3,300.07	498.89
26 28 16 00-0222 EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	5,626.51	665.15
26 28 16 00-0223 EA 800 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	8,810.41	790.47
26 28 16 00-0224 EA 1,200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	11,555.34	897.90
<b>26 28 16 00-0225 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 00-0206)</sup>		
26 28 16 00-0226 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	588.64	166.27
26 28 16 00-0227 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	920.07	230.27
26 28 16 00-0228 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch.....	1,171.29	264.10



<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0229 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,634.22	427.67
26 28 16 00-0230 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,441.15	713.32
26 28 16 00-0231 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	5,932.78	950.91
26 28 16 00-0232 EA 800 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	9,110.00	1,131.40
26 28 16 00-0233 EA 1,200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	11,960.50	1,293.03
<b>26 28 16 00-0234 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 00-0206)</small></b>		
26 28 16 00-0235 EA 30 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	640.86	183.18
26 28 16 00-0236 EA 60 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,005.52	256.56
26 28 16 00-0237 EA 100 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,268.34	289.64
26 28 16 00-0238 EA 200 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,732.64	449.00
26 28 16 00-0239 EA 400 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,654.80	748.23
26 28 16 00-0240 EA 600 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	6,313.66	997.68
26 28 16 00-0241 EA 800 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	9,706.63	1,185.27
26 28 16 00-0242 EA 1,200 Amp, 480 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	12,736.08	1,346.90
<b>26 28 16 00-0243 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 00-0206)</small></b>		
26 28 16 00-0244 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	387.25	183.18
26 28 16 00-0245 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,038.32	256.56
26 28 16 00-0246 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,314.07	289.64
26 28 16 00-0247 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,788.30	449.00
26 28 16 00-0248 EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,798.92	748.23
26 28 16 00-0249 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	6,291.64	997.68
26 28 16 00-0250 EA 800 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	9,694.29	1,185.27
26 28 16 00-0251 EA 1,200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	12,719.30	1,346.90
<b>26 28 16 00-0252 General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 00-0152)</small></b>		
Note: With fuses, neutral bar, and hub if required.		
<b>26 28 16 00-0253 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 00-0252)</small></b>		
26 28 16 00-0254 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	326.90	110.12
26 28 16 00-0255 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	449.77	132.11
26 28 16 00-0256 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	581.74	153.65
26 28 16 00-0257 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,153.11	234.25
26 28 16 00-0258 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,723.28	374.77
26 28 16 00-0259 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 1 Blade And Fuseholder, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	4,745.80	499.97
<b>26 28 16 00-0260 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches <small>(26 28 16 00-0252)</small></b>		
26 28 16 00-0261 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	454.16	173.59
26 28 16 00-0262 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	645.06	229.62
26 28 16 00-0263 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	777.82	251.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0264 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,466.12	390.38
26 28 16 00-0265 EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,276.33	650.61
26 28 16 00-0266 EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 2 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	5,488.26	867.83
<b>26 28 16 00-0267 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 00-0267)</sup>		
26 28 16 00-0268 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	500.09	173.48
26 28 16 00-0269 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	691.25	229.62
26 28 16 00-0270 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	926.25	251.92
26 28 16 00-0271 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,561.94	390.38
26 28 16 00-0272 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	3,337.88	650.71
26 28 16 00-0273 EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	5,968.16	867.83
26 28 16 00-0274 EA 800 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, General Duty Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	8,402.32	983.13
<b>26 28 16 00-0275 General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 00-0152)</sup>		
<b>26 28 16 00-0276 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 00-0275)</sup>		
26 28 16 00-0277 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	293.53	96.44
26 28 16 00-0278 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	468.42	133.50
26 28 16 00-0279 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	498.67	153.11
26 28 16 00-0280 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,180.75	247.83
26 28 16 00-0281 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	2,801.16	413.55
26 28 16 00-0282 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	4,850.75	551.37
<b>26 28 16 00-0283 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switches</b> <sup>(26 28 16 00-0275)</sup>		
26 28 16 00-0284 EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	456.31	144.60
26 28 16 00-0285 EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	652.99	200.20
26 28 16 00-0286 EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	924.81	229.62
26 28 16 00-0287 EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, General Duty Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Bolt-On Hubs, Safety Switch .....	1,578.74	371.85
<b>26 28 16 00-0288 NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 00-0001)</sup>		
<b>26 28 16 00-0289 Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 00-0288)</sup>		
Note: With fuses and neutral bar (stainless steel).		
<b>26 28 16 00-0290 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 00-0289)</sup>		
26 28 16 00-0291 EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	1,237.10	107.76
26 28 16 00-0292 EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	1,486.26	129.84
26 28 16 00-0293 EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,976.66	151.71
26 28 16 00-0294 EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	4,131.57	239.42
26 28 16 00-0295 EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	8,342.88	371.53
26 28 16 00-0296 EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	11,999.71	549.32
<b>26 28 16 00-0297 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <sup>(26 28 16 00-0289)</sup>		



<b>Electrical</b>	<b>26</b>	<b>26</b>
Low-Voltage Electrical Distribution	26 20	
Low-Voltage Circuit Protective Devices	26 28	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0298	EA		30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 1,561.57	1,561.57	119.72
26 28 16 00-0299	EA		60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 1,741.96	1,741.96	144.17
26 28 16 00-0300	EA		100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 3,220.57	3,220.57	168.52
26 28 16 00-0301	EA		200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 4,565.31	4,565.31	266.15
26 28 16 00-0302	EA		400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 8,677.53	8,677.53	413.12
26 28 16 00-0303	EA		600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 12,451.11	12,451.11	610.31
<b>26 28 16 00-0304</b>			<b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0289)</small>		
26 28 16 00-0305	EA		30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 1,413.88	1,413.88	169.38
26 28 16 00-0306	EA		60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 1,778.08	1,778.08	224.45
26 28 16 00-0307	EA		100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 3,304.29	3,304.29	249.45
26 28 16 00-0308	EA		200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 4,714.74	4,714.74	390.38
26 28 16 00-0309	EA		400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 9,133.97	9,133.97	641.34
26 28 16 00-0310	EA		600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 13,026.41	13,026.41	897.90
<b>26 28 16 00-0311</b>			<b>600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0289)</small>		
26 28 16 00-0312	EA		30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 1,700.37	1,700.37	187.06
26 28 16 00-0313	EA		60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 1,956.92	1,956.92	249.45
26 28 16 00-0314	EA		100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 3,453.62	3,453.62	280.58
26 28 16 00-0315	EA		200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 4,900.68	4,900.68	427.56
26 28 16 00-0316	EA		400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 9,446.97	9,446.97	690.69
26 28 16 00-0317	EA		600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 13,449.91	13,449.91	997.68
<b>26 28 16 00-0318</b>			<b>240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0289)</small>		
26 28 16 00-0319	EA		30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 1,673.83	1,673.83	169.38
26 28 16 00-0320	EA		60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 2,103.05	2,103.05	224.45
26 28 16 00-0321	EA		100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 3,954.55	3,954.55	249.45
26 28 16 00-0322	EA		200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 5,603.93	5,603.93	390.38
26 28 16 00-0323	EA		400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 10,884.02	10,884.02	641.34
26 28 16 00-0324	EA		600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 15,431.39	15,431.39	897.90
<b>26 28 16 00-0325</b>			<b>600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0289)</small>		
26 28 16 00-0326	EA		30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 2,007.53	2,007.53	187.06
26 28 16 00-0327	EA		60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 2,305.23	2,305.23	249.45
26 28 16 00-0328	EA		100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 4,117.37	4,117.37	280.58
26 28 16 00-0329	EA		200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 5,797.30	5,797.30	427.56
26 28 16 00-0330	EA		400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 11,220.63	11,220.63	690.69
26 28 16 00-0331	EA		600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch ..... 15,887.68	15,887.68	997.68
<b>26 28 16 00-0332</b>			<b>Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0288)</small>		



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

<b>26 28 16 00-0333</b>		<b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0332)</small>	
26 28 16 00-0334	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,189.13 107.76
26 28 16 00-0335	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,456.70 149.88
26 28 16 00-0336	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,687.65 172.41
26 28 16 00-0337	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,746.98 275.41
26 28 16 00-0338	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,800.35 458.59
26 28 16 00-0339	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	9,723.82 624.75
<b>26 28 16 00-0340</b>		<b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0332)</small>	
26 28 16 00-0341	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,350.52 118.85
26 28 16 00-0342	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,658.22 168.09
26 28 16 00-0343	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,060.66 191.58
26 28 16 00-0344	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,251.43 299.34
26 28 16 00-0345	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	7,708.90 492.64
26 28 16 00-0346	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,064.31 689.62
<b>26 28 16 00-0347</b>		<b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0332)</small>	
26 28 16 00-0348	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,254.23 140.29
26 28 16 00-0349	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,528.85 195.25
26 28 16 00-0350	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,605.81 224.45
26 28 16 00-0351	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,061.18 359.14
26 28 16 00-0352	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,393.34 598.67
26 28 16 00-0353	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	10,386.04 816.33
<b>26 28 16 00-0354</b>		<b>600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0332)</small>	
26 28 16 00-0355	EA	30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,422.35 154.84
26 28 16 00-0356	EA	60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,760.13 219.06
26 28 16 00-0357	EA	100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	3,176.38 249.45
26 28 16 00-0358	EA	200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,433.49 390.38
26 28 16 00-0359	EA	400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	8,783.51 641.34
26 28 16 00-0360	EA	600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	11,799.79 897.90
<b>26 28 16 00-0361</b>		<b>240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0332)</small>	
26 28 16 00-0362	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	1,698.63 140.29
26 28 16 00-0363	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	2,050.11 195.25
26 28 16 00-0364	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	4,507.16 224.45
26 28 16 00-0365	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch	6,883.92 359.14





<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Low-Voltage Circuit Protective Devices</b>	<b>26 28</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 28 16 00-0366</b> 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0332)</small>		
26 28 16 00-0367 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	1,930.24	154.84
26 28 16 00-0368 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,334.83	219.06
26 28 16 00-0369 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	5,136.79	249.45
26 28 16 00-0370 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Stainless Steel Non-Fusible, NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	7,827.17	390.38
<b>26 28 16 00-0371</b> Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0288)</small>		
<b>26 28 16 00-0372</b> 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0371)</small>		
26 28 16 00-0373 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,248.22	186.95
26 28 16 00-0374 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,580.59	249.45
26 28 16 00-0375 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	4,555.59	280.69
26 28 16 00-0376 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	5,960.52	427.78
<b>26 28 16 00-0377</b> 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0371)</small>		
26 28 16 00-0378 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,095.23	154.63
26 28 16 00-0379 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	2,422.50	219.28
26 28 16 00-0380 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	4,298.73	249.45
26 28 16 00-0381 EA 200 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Fiberglass Reinforced Polyester NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch .....	5,868.63	390.60
<b>26 28 16 00-0382</b> Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0288)</small>		
<b>26 28 16 00-0383</b> 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0382)</small>		
26 28 16 00-0384 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,557.50	186.95
26 28 16 00-0385 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,926.67	249.45
26 28 16 00-0386 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	5,210.08	280.69
<b>26 28 16 00-0387</b> 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0382)</small>		
26 28 16 00-0388 EA 30 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,387.87	154.63
26 28 16 00-0389 EA 60 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	2,750.18	219.28
26 28 16 00-0390 EA 100 Amp, 600 Volt Class, 3 Phase, 3 Pole, Non-Fusible, Krydon NEMA 4, 4X Or 5 Enclosure, Neutral Kit, Safety Switch.....	4,926.93	249.45
<b>26 28 16 00-0391</b> NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 00-0001)</small>		
Note: Class 1, groups C and D, division 1 or 2, NEMA 7; Class 2, groups E, F and G, division 1 or 2, NEMA 9; or Class 3, division 1 Or 2, NEMA 9, hazardous locations as defined in NEC article 500.		
<b>26 28 16 00-0392</b> Heavy Duty Fusible, NEMA 7 Or 9 Enclosures, Neutral Kit, Safety Switches <small>(26 28 16 00-0391)</small>		
Note: With fuses and neutral bar.		
26 28 16 00-0393 EA 30 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,056.11	215.50
26 28 16 00-0394 EA 60 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,138.20	256.56
26 28 16 00-0395 EA 100 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	2,584.55	289.64
26 28 16 00-0396 EA 200 Amp, 240 Volt, 3 Phase, Heavy Duty Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	5,402.60	449.00
<b>26 28 16 00-0397</b> Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0391)</small>		
26 28 16 00-0398 EA 60 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	1,641.07	256.56
26 28 16 00-0399 EA 100 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	1,915.29	289.64
26 28 16 00-0400 EA 200 Amp, 240 Volt, 3 Phase, Heavy Duty Non-Fusible, NEMA 7 Or 9 Enclosure, Neutral Kit, Safety Switch.....	3,479.82	449.00

**26 Electrical**

**26 20 Low-Voltage Electrical Distribution**

**26 28 Low-Voltage Circuit Protective Devices**



MINOR		DESCRIPTION	TOTAL DIRECT	DEMOLITION
CSI	UOM		UNIT COST	UNIT COST
26 28 16 00-0401		<b>NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> (26 28 16 00-0001)		
26 28 16 00-0402		<b>Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> (26 28 16 00-0401) Note: With fuses and neutral bar.		
26 28 16 00-0403		<b>240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> (26 28 16 00-0402)		
26 28 16 00-0404	EA	30 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	485.31	107.76
26 28 16 00-0405	EA	60 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	628.39	129.84
26 28 16 00-0406	EA	100 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	844.93	151.93
26 28 16 00-0407	EA	200 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,416.93	239.21
26 28 16 00-0408	EA	400 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,955.00	371.74
26 28 16 00-0409	EA	600 Amp, 240 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,275.28	549.54
26 28 16 00-0410		<b>600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> (26 28 16 00-0402)		
26 28 16 00-0411	EA	30 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	737.63	119.61
26 28 16 00-0412	EA	60 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	770.79	144.39
26 28 16 00-0413	EA	100 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,090.96	168.63
26 28 16 00-0414	EA	200 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,708.06	266.15
26 28 16 00-0415	EA	400 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,643.98	412.69
26 28 16 00-0416	EA	600 Amp, 600 Volt Class, 1 Phase, 2 Pole, 2 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	7,105.93	610.41
26 28 16 00-0417		<b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> (26 28 16 00-0402)		
26 28 16 00-0418	EA	30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	684.19	169.17
26 28 16 00-0419	EA	60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	942.72	224.67
26 28 16 00-0420	EA	100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,258.81	249.45
26 28 16 00-0421	EA	200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,880.73	390.60
26 28 16 00-0422	EA	400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,630.14	641.12
26 28 16 00-0423	EA	600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	5,762.94	898.12
26 28 16 00-0424		<b>600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> (26 28 16 00-0402)		
26 28 16 00-0425	EA	30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	892.24	186.95
26 28 16 00-0426	EA	60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,028.91	249.45
26 28 16 00-0427	EA	100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,473.85	280.69
26 28 16 00-0428	EA	200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	2,154.40	427.78
26 28 16 00-0429	EA	400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	4,414.31	690.69
26 28 16 00-0430	EA	600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	8,156.79	997.79
26 28 16 00-0431		<b>240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> (26 28 16 00-0402)		
26 28 16 00-0432	EA	30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	725.43	169.17
26 28 16 00-0433	EA	60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	971.05	224.67
26 28 16 00-0434	EA	100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,347.74	249.45
26 28 16 00-0435	EA	200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	1,992.37	390.60
26 28 16 00-0436	EA	400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch	3,929.06	641.12



<b>Electrical</b>	<b>26</b>	
Low-Voltage Electrical Distribution	26 20	26
Low-Voltage Circuit Protective Devices	26 28	

MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0437	EA 600 Amp, 240 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	5,964.88	898.12
<b>26 28 16 00-0438</b>	<b>600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0402)</small>		
26 28 16 00-0439	EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	940.05	186.95
26 28 16 00-0440	EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,156.44	249.45
26 28 16 00-0441	EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,561.55	280.69
26 28 16 00-0442	EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,321.78	427.78
26 28 16 00-0443	EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	4,685.31	690.69
26 28 16 00-0444	EA 600 Amp, 600 Volt Class, 3 Phase, 4 Wire, 3 Blades And Fuseholders, Heavy Duty Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	8,379.97	997.79
<b>26 28 16 00-0445</b>	<b>Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0401)</small>		
<b>26 28 16 00-0446</b>	<b>240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0445)</small>		
26 28 16 00-0447	EA 30 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	505.38	155.70
26 28 16 00-0448	EA 60 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	673.62	217.12
26 28 16 00-0449	EA 100 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	880.38	249.45
26 28 16 00-0450	EA 200 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,269.95	399.22
26 28 16 00-0451	EA 400 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,721.63	665.37
26 28 16 00-0452	EA 600 Amp, 240 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	4,260.56	907.27
<b>26 28 16 00-0453</b>	<b>600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0445)</small>		
26 28 16 00-0454	EA 30 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	562.73	171.87
26 28 16 00-0455	EA 60 Amp, Non-Fused, NEMA 12, Heavy Duty Disconnect Switch, 600 Volt, 1 Phase .....	749.36	243.52
26 28 16 00-0456	EA 100 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	980.94	276.93
26 28 16 00-0457	EA 200 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,379.88	433.71
26 28 16 00-0458	EA 400 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	2,885.21	712.78
26 28 16 00-0459	EA 600 Amp, 600 Volt Class, 1 Phase, 2 Wire, 2 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	4,707.09	997.79
<b>26 28 16 00-0460</b>	<b>240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0445)</small>		
26 28 16 00-0461	EA 30 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	651.60	140.08
26 28 16 00-0462	EA 60 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	862.25	195.04
26 28 16 00-0463	EA 100 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,131.52	224.67
26 28 16 00-0464	EA 200 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,633.24	359.35
26 28 16 00-0465	EA 400 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	3,366.50	598.56
26 28 16 00-0466	EA 600 Amp, 240 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	5,252.54	816.22
<b>26 28 16 00-0467</b>	<b>600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches</b> <small>(26 28 16 00-0445)</small>		
26 28 16 00-0468	EA 30 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	646.00	154.63
26 28 16 00-0469	EA 60 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	936.19	219.28
26 28 16 00-0470	EA 100 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,216.22	249.45
26 28 16 00-0471	EA 200 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	1,629.70	390.60
26 28 16 00-0472	EA 400 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch .....	3,399.00	641.12

## 26 Electrical

## 26 20 Low-Voltage Electrical Distribution

## 26 28 Low-Voltage Circuit Protective Devices



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
			26 28 16 00-0473 EA 600 Amp, 600 Volt Class, 3 Phase, 3 Wire, 3 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	6,219.65	898.12
<b>26 28 16 00-0474</b>			<b>240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0445)</small></b>		
			26 28 16 00-0475 EA 30 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	769.58	140.08
			26 28 16 00-0476 EA 60 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	929.35	195.04
			26 28 16 00-0477 EA 100 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,406.39	224.67
			26 28 16 00-0478 EA 200 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,231.68	359.35
			26 28 16 00-0479 EA 400 Amp, 240 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	3,947.07	457.95
<b>26 28 16 00-0480</b>			<b>600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switches <small>(26 28 16 00-0445)</small></b>		
			26 28 16 00-0481 EA 30 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	803.82	154.63
			26 28 16 00-0482 EA 60 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,015.89	219.28
			26 28 16 00-0483 EA 100 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	1,507.15	249.45
			26 28 16 00-0484 EA 200 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	2,303.22	390.60
			26 28 16 00-0485 EA 400 Amp, 600 Volt Class, 3 Phase, 4 Wire, 4 Blades, Heavy Duty Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Safety Switch.....	4,253.38	603.41
<b>26 28 16 00-0486</b>			<b>Double Throw Safety Switches <small>(26 28 16 00-0001)</small></b>		
<b>26 28 16 00-0487</b>			<b>NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0486)</small></b>		
<b>26 28 16 00-0488</b>			<b>240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0487)</small></b>		
			26 28 16 00-0489 EA 30 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	610.83	138.46
			26 28 16 00-0490 EA 60 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	890.69	181.02
			26 28 16 00-0491 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,240.82	236.52
			26 28 16 00-0492 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,650.79	307.63
			26 28 16 00-0493 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,808.58	384.67
			26 28 16 00-0494 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,888.15	616.88
			26 28 16 00-0495 EA 800 Amp, Double Throw Safety Switch, 240 Volt, 2 Pole, Non-Fusible, NEMA 1 Enclosure.....	7,977.43	862.01
			26 28 16 00-0496 EA 1,000 Amp, Double Throw Safety Switch, 240 Volt, 2 Pole, Non-Fusible, NEMA 1 Enclosure.....	11,609.39	969.77
			26 28 16 00-0497 EA 1,200 Amp, Double Throw Safety Switch, 240 Volt, 2 Pole, Non-Fusible, NEMA 1 Enclosure.....	13,647.33	1,077.52
<b>26 28 16 00-0498</b>			<b>240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0487)</small></b>		
			26 28 16 00-0499 EA 30 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	780.16	193.95
			26 28 16 00-0500 EA 60 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,080.43	253.22
			26 28 16 00-0501 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,601.71	331.34
			26 28 16 00-0502 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,324.79	431.01
			26 28 16 00-0503 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	5,252.33	538.76
			26 28 16 00-0504 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,383.74	862.01
			26 28 16 00-0505 EA 800 Amp, Double Throw Safety Switch, 240 Volt, 3 Pole, Non-Fusible, NEMA 1 Enclosure.....	8,623.58	969.77
			26 28 16 00-0506 EA 1,000 Amp, Double Throw Safety Switch, 240 Volt, 3 Pole, Non-Fusible, NEMA 1 Enclosure.....	12,182.66	1,077.52
			26 28 16 00-0507 EA 1,200 Amp, Double Throw Safety Switch, 240 Volt, 3 Pole, Non-Fusible, NEMA 1 Enclosure.....	14,398.65	1,185.27
<b>26 28 16 00-0508</b>			<b>240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0487)</small></b>		
			26 28 16 00-0509 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,029.11	242.44
			26 28 16 00-0510 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,479.54	316.80
			26 28 16 00-0511 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,553.20	413.77
			26 28 16 00-0512 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,483.37	537.69
			26 28 16 00-0513 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,819.49	673.45
			26 28 16 00-0514 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,739.09	1,079.14
			26 28 16 00-0515 EA 800 Amp, Double Throw Safety Switch, 240 Volt, 4 Pole, Non-Fusible, NEMA 1 Enclosure.....	10,972.11	1,185.27
			26 28 16 00-0516 EA 1,000 Amp, Double Throw Safety Switch, 240 Volt, 4 Pole, Non-Fusible, NEMA 1 Enclosure.....	14,430.80	1,239.15
			26 28 16 00-0517 EA 1,200 Amp, Double Throw Safety Switch, 240 Volt, 4 Pole, Non-Fusible, NEMA 1 Enclosure.....	16,139.28	1,293.03
<b>26 28 16 00-0518</b>			<b>600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0487)</small></b>		
			26 28 16 00-0519 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,015.05	181.02
			26 28 16 00-0520 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,508.78	236.52
			26 28 16 00-0521 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,204.10	307.63



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0522 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,031.67	384.67
26 28 16 00-0523 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	7,461.42	616.88
26 28 16 00-0524 EA 800 Amp, Double Throw Safety Switch, 600 Volt, 2 Pole, Non-Fusible, NEMA 1 Enclosure.....	8,602.77	862.01
26 28 16 00-0525 EA 1,000 Amp, Double Throw Safety Switch, 600 Volt, 2 Pole, Non-Fusible, NEMA 1 Enclosure.....	12,576.37	969.77
26 28 16 00-0526 EA 1,200 Amp, Double Throw Safety Switch, 600 Volt, 2 Pole, Non-Fusible, NEMA 1 Enclosure.....	14,796.56	1,077.52
<b>26 28 16 00-0527</b>		
<b>600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 00-0487)</small>		
26 28 16 00-0528 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	1,159.29	253.22
26 28 16 00-0529 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	1,697.92	331.34
26 28 16 00-0530 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	2,449.79	431.01
26 28 16 00-0531 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	5,339.58	538.76
26 28 16 00-0532 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	7,953.05	862.01
26 28 16 00-0533 EA 800 Amp, Double Throw Safety Switch, 600 Volt, 3 Pole, Non-Fusible, NEMA 1 Enclosure.....	9,291.99	969.77
26 28 16 00-0534 EA 1,000 Amp, Double Throw Safety Switch, 600 Volt, 3 Pole, Non-Fusible, NEMA 1 Enclosure.....	13,185.42	1,077.52
26 28 16 00-0535 EA 1,200 Amp, Double Throw Safety Switch, 600 Volt, 3 Pole, Non-Fusible, NEMA 1 Enclosure.....	15,601.46	1,185.27
<b>26 28 16 00-0536</b>		
<b>600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 00-0487)</small>		
26 28 16 00-0537 EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	1,557.46	316.80
26 28 16 00-0538 EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	2,665.51	413.77
26 28 16 00-0539 EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	3,716.23	537.69
26 28 16 00-0540 EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	7,315.02	673.45
26 28 16 00-0541 EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 1 Enclosure, Neutral Kit, Double Throw Safety Switch .....	9,293.23	1,079.14
26 28 16 00-0542 EA 800 Amp, Double Throw Safety Switch, 600 Volt, 4 Pole, Non-Fusible, NEMA 1 Enclosure.....	11,832.26	1,185.27
26 28 16 00-0543 EA 1,000 Amp, Double Throw Safety Switch, 600 Volt, 4 Pole, Non-Fusible, NEMA 1 Enclosure.....	15,626.05	1,239.15
26 28 16 00-0544 EA 1,200 Amp, Double Throw Safety Switch, 600 Volt, 4 Pole, Non-Fusible, NEMA 1 Enclosure.....	17,494.60	1,293.03
<b>26 28 16 00-0545</b>		
<b>NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 00-0486)</small>		
<b>26 28 16 00-0546</b>		
<b>240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 00-0545)</small>		
26 28 16 00-0547 EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,522.61	236.52
26 28 16 00-0548 EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,380.40	307.63
26 28 16 00-0549 EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	10,776.08	384.67
26 28 16 00-0550 EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	18,537.89	616.88
<b>26 28 16 00-0551</b>		
<b>240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 00-0545)</small>		
26 28 16 00-0552 EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,005.79	330.80
26 28 16 00-0553 EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,188.90	430.47
26 28 16 00-0554 EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	11,178.28	538.76
26 28 16 00-0555 EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	12,280.27	863.64
<b>26 28 16 00-0556</b>		
<b>240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 00-0545)</small>		
26 28 16 00-0557 EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,896.95	242.55
26 28 16 00-0558 EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,359.91	316.57
26 28 16 00-0559 EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,294.35	413.66
26 28 16 00-0560 EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	4,736.08	537.90
26 28 16 00-0561 EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,926.95	673.45
26 28 16 00-0562 EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,386.03	1,079.25
<b>26 28 16 00-0563</b>		
<b>600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 00-0545)</small>		
26 28 16 00-0564 EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,282.03	181.02
26 28 16 00-0565 EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,932.77	236.52
26 28 16 00-0566 EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,460.10	307.63
26 28 16 00-0567 EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	6,559.37	384.67
26 28 16 00-0568 EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	8,815.02	616.88
<b>26 28 16 00-0569</b>		
<b>600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches</b> <small>(26 28 16 00-0545)</small>		
26 28 16 00-0570 EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	1,475.39	253.22
26 28 16 00-0571 EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	2,198.92	330.80
26 28 16 00-0572 EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	3,855.50	430.47
26 28 16 00-0573 EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	7,172.04	538.76
26 28 16 00-0574 EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch.....	9,705.13	863.64



MINOR  
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION  
UNIT COST UNIT COST

26 28 16 00-0575	600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0545)</small>		
26 28 16 00-0576	EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	2,377.92	316.57
26 28 16 00-0577	EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	3,302.61	413.66
26 28 16 00-0578	EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	4,850.84	537.90
26 28 16 00-0579	EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	7,913.40	673.45
26 28 16 00-0580	EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 3R Enclosure, Neutral Kit, Double Throw Safety Switch	9,460.71	1,079.25
26 28 16 00-0581	NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0486)</small>		
26 28 16 00-0582	240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0581)</small>		
26 28 16 00-0583	EA 30 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,491.61	138.57
26 28 16 00-0584	EA 60 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,700.93	180.91
26 28 16 00-0585	EA 100 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,939.75	236.41
26 28 16 00-0586	EA 200 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,658.38	307.42
26 28 16 00-0587	EA 400 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,876.81	384.78
26 28 16 00-0588	EA 600 Amp, 240 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	7,177.34	616.66
26 28 16 00-0589	240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0581)</small>		
26 28 16 00-0590	EA 30 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	1,730.66	193.95
26 28 16 00-0591	EA 60 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,058.30	253.22
26 28 16 00-0592	EA 100 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,457.12	330.80
26 28 16 00-0593	EA 200 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,411.00	430.47
26 28 16 00-0594	EA 400 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,100.29	538.76
26 28 16 00-0595	EA 600 Amp, 240 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,133.01	863.64
26 28 16 00-0596	240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0581)</small>		
26 28 16 00-0597	EA 30 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,562.99	242.55
26 28 16 00-0598	EA 60 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,014.29	316.57
26 28 16 00-0599	EA 100 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,123.03	413.66
26 28 16 00-0600	EA 200 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,590.21	537.90
26 28 16 00-0601	EA 400 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	10,194.44	673.45
26 28 16 00-0602	EA 600 Amp, 240 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	12,780.98	1,079.25
26 28 16 00-0603	600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0581)</small>		
26 28 16 00-0604	EA 60 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,216.54	180.91
26 28 16 00-0605	EA 100 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,352.77	236.41
26 28 16 00-0606	EA 200 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,393.89	307.42
26 28 16 00-0607	EA 400 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,312.66	384.78
26 28 16 00-0608	EA 600 Amp, 600 Volt Class, 2 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	8,524.35	616.66
26 28 16 00-0609	600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0581)</small>		
26 28 16 00-0610	EA 60 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,458.88	253.22
26 28 16 00-0611	EA 100 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	2,640.96	330.80
26 28 16 00-0612	EA 200 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,838.28	430.47
26 28 16 00-0613	EA 400 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	6,912.10	538.76
26 28 16 00-0614	EA 600 Amp, 600 Volt Class, 3 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	9,398.84	863.64
26 28 16 00-0615	600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switches <small>(26 28 16 00-0581)</small>		
26 28 16 00-0616	EA 60 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	3,043.67	316.57
26 28 16 00-0617	EA 100 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	4,339.71	413.66
26 28 16 00-0618	EA 200 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	5,717.92	537.90
26 28 16 00-0619	EA 400 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	10,469.34	673.45
26 28 16 00-0620	EA 600 Amp, 600 Volt Class, 4 Pole, Non-Fusible, NEMA 12 Enclosure, Neutral Kit, Double Throw Safety Switch	13,145.35	1,079.25
26 28 16 00-0621	Removal And Reinstallation Of Disconnect Switches <small>(26 28 16 00-0001)</small>		
	Note: Includes storage and cleaning.		
26 28 16 00-0622	EA Removal And Reinstallation Of Up To 100 Amp Safety Disconnect Switch	538.76	
26 28 16 00-0623	EA Removal And Reinstallation Of >100 To 200 Amp Safety Disconnect Switch	700.42	
26 28 16 00-0624	EA Removal And Reinstallation Of >200 To 300 Amp Safety Disconnect Switch	781.26	
26 28 16 00-0625	EA Removal And Reinstallation Of >300 To 400 Amp Safety Disconnect Switch	915.95	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 28 16 00-0626			<b>Bolted Contact Switches</b> <small>(26 28 16)</small>		
			Note: Work includes mounting, material handling, uploading at job site and termination of all conductors entering and leaving the switch.		
26 28 16 00-0627			<b>Electrical Trip, Bolted Contact Switches</b> <small>(26 28 16 00-0626)</small>		
26 28 16 00-0628			<b>Top Feed, Electrical Trip, Bolted Contact Switches</b> <small>(26 28 16 00-0627)</small>		
26 28 16 00-0629	EA		800 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833T120480).....	6,222.52	1,077.52
26 28 16 00-0630	EA		1,200 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233T120480).....	6,828.05	1,293.03
26 28 16 00-0631	EA		1,600 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633T120480).....	7,504.04	1,508.53
26 28 16 00-0632	EA		2,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033T120480).....	8,018.96	1,724.03
26 28 16 00-0633	EA		2,500 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533T120480).....	9,050.68	1,939.54
26 28 16 00-0634	EA		3,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033T120480).....	11,149.63	2,155.04
26 28 16 00-0635	EA		4,000 Amp, Top Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033T120480).....	14,797.13	2,586.05
26 28 16 00-0636			<b>Bottom Feed, Electrical Trip, Bolted Contact Switches</b> <small>(26 28 16 00-0627)</small>		
26 28 16 00-0637	EA		800 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB0833B120480).....	6,548.06	1,077.52
26 28 16 00-0638	EA		1,200 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1233B120480).....	7,217.34	1,293.03
26 28 16 00-0639	EA		1,600 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB1633B120480).....	7,889.98	1,508.53
26 28 16 00-0640	EA		2,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2033B120480).....	8,572.70	1,724.03
26 28 16 00-0641	EA		2,500 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB2533B120480).....	9,648.05	1,939.54
26 28 16 00-0642	EA		3,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB3033B120480).....	12,270.54	2,155.04
26 28 16 00-0643	EA		4,000 Amp, Bottom Feed, Electrical Trip, Bolted Contact Switch (Eaton CB4033B120480).....	15,965.02	2,586.05
26 28 16 00-0644			<b>Manually Operated, Bolted Contact Switches</b> <small>(26 28 16 00-0626)</small>		
26 28 16 00-0645			<b>Top Feed, Manually Operated, Bolted Contact Switches</b> <small>(26 28 16 00-0644)</small>		
26 28 16 00-0646	EA		800 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833T480).....	4,759.30	1,077.52
26 28 16 00-0647	EA		1,200 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233T480).....	5,382.28	1,293.03
26 28 16 00-0648	EA		1,600 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633T480).....	6,032.76	1,508.53
26 28 16 00-0649	EA		2,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033T480).....	6,679.24	1,724.03
26 28 16 00-0650	EA		2,500 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533T480).....	7,359.25	1,939.54
26 28 16 00-0651	EA		3,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033T480).....	9,458.20	2,155.04
26 28 16 00-0652	EA		4,000 Amp, Top Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033T480).....	13,065.43	2,586.05
26 28 16 00-0653			<b>Bottom Feed, Manually Operated, Bolted Contact Switches</b> <small>(26 28 16 00-0644)</small>		
26 28 16 00-0654	EA		800 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA0833B480).....	4,974.76	1,077.52
26 28 16 00-0655	EA		1,200 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1233B480).....	5,707.81	1,293.03
26 28 16 00-0656	EA		1,600 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA1633B480).....	6,348.23	1,508.53
26 28 16 00-0657	EA		2,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2033B480).....	7,096.05	1,724.03
26 28 16 00-0658	EA		2,500 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA2533B480).....	7,882.79	1,939.54
26 28 16 00-0659	EA		3,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA3033B480).....	10,495.21	2,155.04
26 28 16 00-0660	EA		4,000 Amp, Bottom Feed, Manually Operated, Bolted Contact Switch (Eaton QA4033B480).....	14,152.77	2,586.05
26 29			<b>Low-Voltage Controllers</b> <small>(26 20)</small>		
26 29 13			<b>Enclosed Controllers</b> <small>(26 29)</small>		
26 29 13 13			<b>Across-The-Line Motor Controllers</b> <small>(26 29 13)</small>		
26 29 13 13-0001			<b>Manual Motor Starters</b> <small>(26 29 13 13)</small>		
26 29 13 13-0002			<b>Fractional HP Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>		
26 29 13 13-0003	EA		NEMA 1, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG1).....	204.25	53.94
			<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.67	
			<i>For Oversized Enclosure, Add</i>	26.89	
			<i>For Pilot Light, Add</i>	39.44	
26 29 13 13-0004	EA		NEMA 1, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG2).....	267.55	70.13
			<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.67	
			<i>For Oversized Enclosure, Add</i>	26.89	
			<i>For Pilot Light, Add</i>	39.44	
26 29 13 13-0005	EA		NEMA 1, 1 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG3).....	231.13	53.94
			<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.67	
			<i>For Oversized Enclosure, Add</i>	26.89	
			<i>For Pilot Light, Add</i>	39.44	
26 29 13 13-0006	EA		NEMA 1, 2 Pole, Key Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG4).....	294.43	70.13
			<i>For Flush Cover Plate In Lieu Of NEMA 1, Deduct</i>	-2.67	
			<i>For Oversized Enclosure, Add</i>	26.89	
			<i>For Pilot Light, Add</i>	39.44	
26 29 13 13-0007	EA		NEMA 1, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG5).....	215.90	53.94
			<i>For Oversized Enclosure, Add</i>	26.89	
26 29 13 13-0008	EA		NEMA 1, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FG6).....	282.78	70.13
			<i>For Oversized Enclosure, Add</i>	26.89	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0009 EA NEMA 4, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW1).....	435.55	64.73
For Pilot Light, Add	103.07	
26 29 13 13-0010 EA NEMA 4, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FW2).....	501.53	80.91
For Pilot Light, Add	103.07	
26 29 13 13-0011 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 1 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR1).....	462.44	64.73
26 29 13 13-0012 EA NEMA 3R, 7 And 9, Handle Guard/Lockoff, 2 Pole, Toggle Operator, Up To 1 HP, Manual Motor Starter With Thermal Overload Protection (Square D 2510FR2).....	525.73	80.91
<b>26 29 13 13-0013 Non Reversing Manual Motor Starters (26 29 13 13-0001)</b>		
26 29 13 13-0014 EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG1).....	164.97	53.94
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	12.97	
For Pilot Light, Add	62.27	
26 29 13 13-0015 EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG2).....	269.12	70.13
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	12.97	
For Pilot Light, Add	62.27	
26 29 13 13-0016 EA NEMA 1, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG5).....	186.13	59.34
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	12.97	
For Pilot Light, Add	62.27	
26 29 13 13-0017 EA NEMA 1, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG6).....	291.14	75.53
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	12.97	
For Pilot Light, Add	62.27	
26 29 13 13-0018 EA NEMA 1, Non Reversing, 2 Pole, Key Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG3).....	190.05	53.94
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	12.97	
For Pilot Light, Add	62.27	
26 29 13 13-0019 EA NEMA 1, Non Reversing, 3 Pole, Key Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KG4).....	295.06	70.13
Note: NEMA 1 or flush cover plate installation.		
For Oversize Enclosure, Add	12.97	
For Pilot Light, Add	62.27	
26 29 13 13-0020 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW1).....	401.02	64.73
For Pilot Light, Add	98.59	
26 29 13 13-0021 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW2).....	495.65	80.91
For Pilot Light, Add	98.59	
26 29 13 13-0022 EA NEMA 4, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW5).....	423.06	70.13
For Pilot Light, Add	98.59	
26 29 13 13-0023 EA NEMA 4, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KW6).....	515.10	86.31
For Pilot Light, Add	98.59	
26 29 13 13-0024 EA NEMA 3R, 7 And 9, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR1).....	425.24	64.73
26 29 13 13-0025 EA NEMA 3R, 7 And 9, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KR2).....	526.78	80.91
26 29 13 13-0026 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO1).....	120.50	37.76
For Pilot Light, Add	62.27	
26 29 13 13-0027 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO2).....	224.64	53.94
For Pilot Light, Add	62.27	
26 29 13 13-0028 EA Open Type, Non Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 3 HP At 230 Volt, 7-1/2 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO5).....	141.66	43.16
For Pilot Light, Add	62.27	
26 29 13 13-0029 EA Open Type, Non Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 15 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2510KO6).....	245.80	59.34
For Pilot Light, Add	62.27	
<b>26 29 13 13-0030 Reversing Manual Motor Starters (26 29 13 13-0001)</b>		
26 29 13 13-0031 EA NEMA 1, Reversing, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG11).....	442.40	97.10
For Pilot Light, Add	100.32	
26 29 13 13-0032 EA NEMA 1, Reversing, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2511KG22).....	640.32	129.47
For Pilot Light, Add	100.32	
<b>26 29 13 13-0033 Two Speed Manual Motor Starters (26 29 13 13-0001)</b>		
26 29 13 13-0034 EA NEMA 1, Two Speed, 2 Pole, Toggle Operator, 2 HP At 115 Volt, 2 HP At 230 Volt, 3 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG11).....	442.40	97.10





		MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13	13	13-0035	EA		NEMA 1, Two Speed, 3 Pole, Toggle Operator, 2 HP At 115 Volt, 7-1/2 HP At 230 Volt, 10 HP At 460 Volt, Manual Motor Starting Switch Without Thermal Overload Protection (Square D 2512KG22) .....	640.32	129.47
<b>26 29 13 13-0036 Non-Reversing Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small></b>							
26 29 13	13	13-0037	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG1) .....	404.64	64.73
26 29 13	13	13-0038	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG1) .....	404.64	64.73
26 29 13	13	13-0039	EA		NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW11) .....	834.91	75.53
26 29 13	13	13-0040	EA		NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW1) .....	834.91	75.53
26 29 13	13	13-0041	EA		NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR1) .....	1,089.45	75.53
26 29 13	13	13-0042	EA		Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA1) .....	514.94	75.53
26 29 13	13	13-0043	EA		Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO1) .....	345.38	48.55
26 29 13	13	13-0044	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG1) .....	479.96	70.13
26 29 13	13	13-0045	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG1) .....	479.96	70.13
26 29 13	13	13-0046	EA		NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW11) .....	998.96	80.91
26 29 13	13	13-0047	EA		NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW1) .....	998.96	80.91
26 29 13	13	13-0048	EA		NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR1) .....	1,273.22	80.91
26 29 13	13	13-0049	EA		Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA1) .....	590.26	80.91
26 29 13	13	13-0050	EA		Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCC1) .....	420.70	53.94
26 29 13	13	13-0051	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG2) .....	629.66	75.53
26 29 13	13	13-0052	EA		NEMA 1, Non-Reversing Integral HP, 2 Pole, Toggle Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG2) .....	629.66	75.53
26 29 13	13	13-0053	EA		NEMA 4, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW12) .....	1,187.22	86.31
26 29 13	13	13-0054	EA		NEMA 4X, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW2) .....	1,187.22	86.31
26 29 13	13	13-0055	EA		NEMA 7 And 9, Non-Reversing Integral HP, 2 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR2) .....	1,449.83	86.31
26 29 13	13	13-0056	EA		Type 12, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA2) .....	742.67	86.31
26 29 13	13	13-0057	EA		Open, Non-Reversing Integral HP, 2 Pole, Push Button Operator, NEMA Size M-1P, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO2) .....	573.09	59.34
26 29 13	13	13-0058	EA		NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBG2) .....	501.09	80.91
26 29 13	13	13-0059	EA		NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510TBG2) .....	501.09	80.91
26 29 13	13	13-0060	EA		NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW12) .....	931.37	91.70
26 29 13	13	13-0061	EA		NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBW2) .....	931.37	91.70
26 29 13	13	13-0062	EA		NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBR2) .....	1,193.08	91.70
26 29 13	13	13-0063	EA		Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBA2) .....	612.30	91.70
26 29 13	13	13-0064	EA		Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2510MBO2) .....	444.53	64.73
26 29 13	13	13-0065	EA		NEMA 1, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCG3) .....	576.42	86.31
26 29 13	13	13-0066	EA		NEMA 1, Non-Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510TCG3) .....	576.42	86.31
26 29 13	13	13-0067	EA		NEMA 4, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW13) .....	1,095.42	97.10
26 29 13	13	13-0068	EA		NEMA 4X, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCW3) .....	1,095.42	97.10
26 29 13	13	13-0069	EA		NEMA 7 And 9, Non-Reversing Integral HP, 3 Pole, External Toggle Operator To Actuate A Push Button Operator Inside, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCR3) .....	1,375.95	97.10
26 29 13	13	13-0070	EA		Type 12, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCA3) .....	686.72	97.10
26 29 13	13	13-0071	EA		Open, Non-Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2510MCO3) .....	517.16	70.13
<b>26 29 13 13-0072 Reversing Integral HP Manual Motor Starters <small>(26 29 13 13-0001)</small></b>							
26 29 13	13	13-0073	EA		NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBG1) .....	1,166.33	113.28
26 29 13	13	13-0074	EA		NEMA 1, Reversing Integral HP, 3 Pole, Toggle Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511TBG1) .....	1,166.33	113.28
26 29 13	13	13-0075	EA		Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2511MBO1) .....	1,025.41	80.91

## 26 Electrical

26 20 Low-Voltage Electrical Distribution

26 29 Low-Voltage Controllers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0076 EA NEMA 1, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCG1)	1,378.81	124.07
26 29 13 13-0077 EA Open, Reversing Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2511MCO1)	1,237.89	91.70
<b>26 29 13 13-0078 Two Speed Integral HP Manual Motor Starters</b> <small>(26 29 13 13-0001)</small>		
26 29 13 13-0079 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBG1)	1,166.33	113.28
26 29 13 13-0080 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-0, Manual Motor Starter With Thermal Overload Protection (Square D 2512MBO1)	1,025.41	80.91
26 29 13 13-0081 EA NEMA 1, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCG1)	1,378.81	124.07
26 29 13 13-0082 EA Open, Two Speed Integral HP, 3 Pole, Push Button Operator, NEMA Size M-1, Manual Motor Starter With Thermal Overload Protection (Square D 2512MCO1)	1,237.89	91.70
<b>26 29 13 13-0083 Magnetic Motor Starters</b> <small>(26 29 13 13)</small>		
<b>26 29 13 13-0084 Non Reversing, Magnetic Contactors</b> <small>(26 29 13 13-0083)</small>		
<b>26 29 13 13-0085 Open Enclosure, Non Reversing, Magnetic Contactors</b> <small>(26 29 13 13-0084)</small>		
26 29 13 13-0086 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO11)	473.01	107.89
<i>For Factory Installed Accessory, Deduct</i>	-215.78	
26 29 13 13-0087 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAO12)	532.23	118.67
<i>For Factory Installed Accessory, Deduct</i>	-237.36	
26 29 13 13-0088 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO5)	510.65	107.89
<i>For Factory Installed Accessory, Deduct</i>	-215.78	
26 29 13 13-0089 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO1)	570.77	118.67
<i>For Factory Installed Accessory, Deduct</i>	-237.36	
26 29 13 13-0090 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO2)	629.99	129.47
<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0091 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO3)	796.00	161.83
<i>For Factory Installed Accessory, Deduct</i>	-323.67	
26 29 13 13-0092 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBO4)	1,001.45	194.20
<i>For Factory Installed Accessory, Deduct</i>	-388.40	
26 29 13 13-0093 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO5)	594.97	118.67
<i>For Factory Installed Accessory, Deduct</i>	-237.36	
26 29 13 13-0094 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO1)	654.18	129.47
<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0095 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO2)	715.20	140.26
<i>For Factory Installed Accessory, Deduct</i>	-280.51	
26 29 13 13-0096 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO3)	914.47	188.80
<i>For Factory Installed Accessory, Deduct</i>	-377.61	
26 29 13 13-0097 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCO4)	1,119.02	221.17
<i>For Factory Installed Accessory, Deduct</i>	-442.34	
26 29 13 13-0098 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO1)	1,000.14	129.47
<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0099 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO2)	1,114.18	161.83
<i>For Factory Installed Accessory, Deduct</i>	-323.67	
26 29 13 13-0100 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDO3)	1,452.41	215.78
<i>For Factory Installed Accessory, Deduct</i>	-431.56	
26 29 13 13-0101 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO1)	1,497.78	161.83
<i>For Factory Installed Accessory, Deduct</i>	-323.67	
26 29 13 13-0102 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO2)	1,708.74	215.78
<i>For Factory Installed Accessory, Deduct</i>	-431.56	
26 29 13 13-0103 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO3)	2,173.34	269.73
<i>For Factory Installed Accessory, Deduct</i>	-539.44	
26 29 13 13-0104 EA Size 3, 3 Phase, 5 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEO4)	3,098.63	323.67
<i>For Factory Installed Accessory, Deduct</i>	-647.34	
26 29 13 13-0105 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO1)	3,373.44	269.73
<i>For Factory Installed Accessory, Deduct</i>	-539.44	
26 29 13 13-0106 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO2)	3,711.68	323.67
<i>For Factory Installed Accessory, Deduct</i>	-647.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0107 EA Size 4, 3 Phase, 4 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFO3) .....	5,018.78	377.61
<i>For Factory Installed Accessory, Deduct</i> .....	-755.23	
26 29 13 13-0108 EA Size 5, 1 Phase, 2 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO1) .....	6,788.57	323.67
<i>For Factory Installed Accessory, Deduct</i> .....	-647.34	
26 29 13 13-0109 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGO2) .....	7,541.20	431.56
<i>For Factory Installed Accessory, Deduct</i> .....	-863.11	
26 29 13 13-0110 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHO2) .....	19,523.86	647.34
<i>For Factory Installed Accessory, Deduct</i> .....	-1,294.67	
26 29 13 13-0111 EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJO2) .....	27,958.88	971.00
<i>For Factory Installed Accessory, Deduct</i> .....	-1,942.01	
<b>26 29 13 13-0112 NEMA 1, Non Reversing, Magnetic Contactors (26 29 13 13-0084)</b>		
26 29 13 13-0113 EA Size 00, 1 Phase, 2 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG11) .....	500.79	107.89
<i>For Factory Installed Accessory, Deduct</i> .....	-215.78	
26 29 13 13-0114 EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SAG12) .....	560.02	118.67
<i>For Factory Installed Accessory, Deduct</i> .....	-237.36	
26 29 13 13-0115 EA Size 0, 1 Phase, 1 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG5) .....	538.44	107.89
<i>For Factory Installed Accessory, Deduct</i> .....	-215.78	
26 29 13 13-0116 EA Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG1) .....	599.45	118.67
<i>For Factory Installed Accessory, Deduct</i> .....	-237.36	
26 29 13 13-0117 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG2) .....	658.67	129.47
<i>For Factory Installed Accessory, Deduct</i> .....	-258.93	
26 29 13 13-0118 EA Size 0, 3 Phase, 4 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG3) .....	826.48	161.83
<i>For Factory Installed Accessory, Deduct</i> .....	-323.67	
26 29 13 13-0119 EA Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBG4) .....	1,032.82	194.20
<i>For Factory Installed Accessory, Deduct</i> .....	-388.40	
26 29 13 13-0120 EA Size 1, 1 Phase, 1 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG5) .....	624.55	118.67
<i>For Factory Installed Accessory, Deduct</i> .....	-237.36	
26 29 13 13-0121 EA Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG1) .....	685.55	129.47
<i>For Factory Installed Accessory, Deduct</i> .....	-258.93	
26 29 13 13-0122 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG2) .....	744.78	140.26
<i>For Factory Installed Accessory, Deduct</i> .....	-280.51	
26 29 13 13-0123 EA Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG3) .....	944.95	188.80
<i>For Factory Installed Accessory, Deduct</i> .....	-377.61	
26 29 13 13-0124 EA Size 1, 3 Phase, 5 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCG4) .....	1,148.60	221.17
<i>For Factory Installed Accessory, Deduct</i> .....	-442.34	
26 29 13 13-0125 EA Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG1) .....	1,132.79	129.47
<i>For Factory Installed Accessory, Deduct</i> .....	-258.93	
26 29 13 13-0126 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG2) .....	1,247.72	161.83
<i>For Factory Installed Accessory, Deduct</i> .....	-323.67	
26 29 13 13-0127 EA Size 2, 3 Phase, 4 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDG3) .....	1,585.06	215.78
<i>For Factory Installed Accessory, Deduct</i> .....	-431.56	
26 29 13 13-0128 EA Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG1) .....	1,758.60	161.83
<i>For Factory Installed Accessory, Deduct</i> .....	-323.67	
26 29 13 13-0129 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG2) .....	1,968.66	215.78
<i>For Factory Installed Accessory, Deduct</i> .....	-431.56	
26 29 13 13-0130 EA Size 3, 3 Phase, 4 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEG3) .....	2,434.15	269.73
<i>For Factory Installed Accessory, Deduct</i> .....	-539.44	
26 29 13 13-0131 EA Size 4, 1 Phase, 2 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG1) .....	3,913.89	269.73
<i>For Factory Installed Accessory, Deduct</i> .....	-539.44	
26 29 13 13-0132 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFG2) .....	4,252.13	323.67
<i>For Factory Installed Accessory, Deduct</i> .....	-647.34	
26 29 13 13-0133 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGG2) .....	8,526.20	431.56
<i>For Factory Installed Accessory, Deduct</i> .....	-863.11	
26 29 13 13-0134 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHG2) .....	23,855.53	647.34
<i>For Factory Installed Accessory, Deduct</i> .....	-1,294.67	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0135	EA		Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, NEMA 1 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SJG2) ..... <i>For Factory Installed Accessory, Deduct</i>	32,303.09 -1,942.01	971.00
<b>26 29 13 13-0136</b>			<b>NEMA 12, Non Reversing, Magnetic Contactors</b> (26 29 13 13-0084)		
26 29 13 13-0137	EA		Size 0, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA1) ..... <i>For Factory Installed Accessory, Deduct</i>	752.71 -237.36	118.67
26 29 13 13-0138	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBA2) ..... <i>For Factory Installed Accessory, Deduct</i>	811.93 -258.93	129.47
26 29 13 13-0139	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCA2) ..... <i>For Factory Installed Accessory, Deduct</i>	898.04 -280.51	140.26
26 29 13 13-0140	EA		Size 2, 1 Phase, 2 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA1) ..... <i>For Factory Installed Accessory, Deduct</i>	1,412.43 -258.93	129.47
26 29 13 13-0141	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDA2) ..... <i>For Factory Installed Accessory, Deduct</i>	1,528.25 -323.67	161.83
26 29 13 13-0142	EA		Size 3, 1 Phase, 2 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA1) ..... <i>For Factory Installed Accessory, Deduct</i>	2,090.21 -323.67	161.83
26 29 13 13-0143	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEA2) ..... <i>For Factory Installed Accessory, Deduct</i>	2,299.38 -431.56	215.78
26 29 13 13-0144	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFA2) ..... <i>For Factory Installed Accessory, Deduct</i>	5,350.06 -647.34	323.67
26 29 13 13-0145	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGA2) ..... <i>For Factory Installed Accessory, Deduct</i>	11,336.00 -863.11	431.56
26 29 13 13-0146	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 12 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHA2) ..... <i>For Factory Installed Accessory, Deduct</i>	27,300.78 -1,294.67	647.34
<b>26 29 13 13-0147</b>			<b>NEMA 4/4X, Non Reversing, Magnetic Contactors</b> (26 29 13 13-0084) Note: Brushed stainless steel enclosure.		
26 29 13 13-0148	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBW12) ..... <i>For Factory Installed Accessory, Deduct</i>	1,105.90 -258.93	129.47
26 29 13 13-0149	EA		Size 1, 1 Phase, 2 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW11) ..... <i>For Factory Installed Accessory, Deduct</i>	1,145.34 -258.93	129.47
26 29 13 13-0150	EA		Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW12) ..... <i>For Factory Installed Accessory, Deduct</i>	1,204.56 -280.51	140.26
26 29 13 13-0151	EA		Size 1, 3 Phase, 4 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SCW13) ..... <i>For Factory Installed Accessory, Deduct</i>	1,404.73 -377.61	188.80
26 29 13 13-0152	EA		Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SDW12) ..... <i>For Factory Installed Accessory, Deduct</i>	2,167.29 -323.67	161.83
26 29 13 13-0153	EA		Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SEW12) ..... <i>For Factory Installed Accessory, Deduct</i>	3,270.04 -431.56	215.78
26 29 13 13-0154	EA		Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SFW12) ..... <i>For Factory Installed Accessory, Deduct</i>	6,473.98 -647.34	323.67
26 29 13 13-0155	EA		Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SGW12) ..... <i>For Factory Installed Accessory, Deduct</i>	11,336.00 -863.11	431.56
26 29 13 13-0156	EA		Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 4/4X Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SHW2) ..... <i>For Factory Installed Accessory, Deduct</i>	30,236.96 -1,294.67	647.34
<b>26 29 13 13-0157</b>			<b>NEMA 7/9, Non Reversing, Magnetic Contactors</b> (26 29 13 13-0084) Note: Bolted cast iron enclosure.		
26 29 13 13-0158	EA		Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 7/9 Enclosure, Non Reversing, Magnetic Contactors (Square D 8502SBT2) ..... <i>For Factory Installed Accessory, Deduct</i>	2,200.51 -345.24	172.63
<b>26 29 13 13-0159</b>			<b>Non Reversing, Magnetic Starters</b> (26 29 13 13-0083)		
<b>26 29 13 13-0160</b>			<b>Open Enclosure, Non Reversing, Magnetic Starters</b> (26 29 13 13-0159)		
26 29 13 13-0161	EA		Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO11) ..... <i>For Factory Installed Accessory, Deduct</i>	561.74 -215.78	107.89
26 29 13 13-0162	EA		Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAO12) ..... <i>For Factory Installed Accessory, Deduct</i>	583.32 -237.36	118.67



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0163	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO1) .....	627.24	118.67
		<i>For Factory Installed Accessory, Deduct</i> .....	-237.36	
26 29 13 13-0164	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO2) .....	693.62	129.47
		<i>For Factory Installed Accessory, Deduct</i> .....	-258.93	
26 29 13 13-0165	EA	Size 0, 3 Phase, 5 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBO4) .....	1,113.48	194.20
		<i>For Factory Installed Accessory, Deduct</i> .....	-388.40	
26 29 13 13-0166	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO1) .....	713.34	129.47
		<i>For Factory Installed Accessory, Deduct</i> .....	-258.93	
26 29 13 13-0167	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO3) .....	836.20	140.26
		<i>For Factory Installed Accessory, Deduct</i> .....	-280.51	
26 29 13 13-0168	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCO2) .....	873.84	140.26
		<i>For Factory Installed Accessory, Deduct</i> .....	-280.51	
26 29 13 13-0169	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SD06) .....	1,081.70	129.47
		<i>For Factory Installed Accessory, Deduct</i> .....	-258.93	
26 29 13 13-0170	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SD01) .....	1,229.80	161.83
		<i>For Factory Installed Accessory, Deduct</i> .....	-323.67	
26 29 13 13-0171	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEO1) .....	1,899.65	215.78
		<i>For Factory Installed Accessory, Deduct</i> .....	-431.56	
26 29 13 13-0172	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFO1) .....	4,005.66	323.67
		<i>For Factory Installed Accessory, Deduct</i> .....	-647.34	
26 29 13 13-0173	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGO1) .....	9,065.75	431.56
		<i>For Factory Installed Accessory, Deduct</i> .....	-863.11	
26 29 13 13-0174	EA	Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHO2) .....	20,793.88	647.34
		<i>For Factory Installed Accessory, Deduct</i> .....	-1,294.67	
26 29 13 13-0175	EA	Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SJO2) .....	29,959.35	971.00
		<i>For Factory Installed Accessory, Deduct</i> .....	-1,942.01	
<b>26 29 13 13-0176</b>		<b>NEMA 1, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small></b>		
26 29 13 13-0177	EA	Size 00, 1 Phase, 2 Pole, .34 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG11) .....	591.32	107.89
		<i>For Factory Installed Accessory, Deduct</i> .....	-215.78	
26 29 13 13-0178	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SAG12) .....	612.90	118.67
		<i>For Factory Installed Accessory, Deduct</i> .....	-237.36	
26 29 13 13-0179	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG1) .....	656.81	118.67
		<i>For Factory Installed Accessory, Deduct</i> .....	-237.36	
26 29 13 13-0180	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBG2) .....	723.20	129.47
		<i>For Factory Installed Accessory, Deduct</i> .....	-258.93	
26 29 13 13-0181	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG1) .....	742.02	129.47
		<i>For Factory Installed Accessory, Deduct</i> .....	-258.93	
26 29 13 13-0182	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG3) .....	809.31	140.26
		<i>For Factory Installed Accessory, Deduct</i> .....	-280.51	
26 29 13 13-0183	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCG2) .....	904.31	140.26
		<i>For Factory Installed Accessory, Deduct</i> .....	-280.51	
26 29 13 13-0184	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG6) .....	1,215.25	129.47
		<i>For Factory Installed Accessory, Deduct</i> .....	-258.93	
26 29 13 13-0185	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDG1) .....	1,363.34	161.83
		<i>For Factory Installed Accessory, Deduct</i> .....	-323.67	
26 29 13 13-0186	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEG1) .....	2,160.46	215.78
		<i>For Factory Installed Accessory, Deduct</i> .....	-431.56	
26 29 13 13-0187	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFG1) .....	4,546.11	323.67
		<i>For Factory Installed Accessory, Deduct</i> .....	-647.34	
26 29 13 13-0188	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 1 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGG1) .....	10,053.44	431.56
		<i>For Factory Installed Accessory, Deduct</i> .....	-863.11	
<b>26 29 13 13-0189</b>		<b>NEMA 12, Non Reversing, Magnetic Starters <small>(26 29 13 13-0159)</small></b>		
26 29 13 13-0190	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA1) .....	810.08	118.67
		<i>For Factory Installed Accessory, Deduct</i> .....	-237.36	

**26 Electrical**  
**26 20 Low-Voltage Electrical Distribution**  
**26 29 Low-Voltage Controllers**



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0191 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBA2).....	876.46	129.47
<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0192 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA1).....	895.28	129.47
<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0193 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA3).....	962.57	140.26
<i>For Factory Installed Accessory, Deduct</i>	-280.51	
26 29 13 13-0194 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCA2).....	1,057.57	140.26
<i>For Factory Installed Accessory, Deduct</i>	-280.51	
26 29 13 13-0195 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA6).....	1,495.78	129.47
<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0196 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDA1).....	1,642.98	161.83
<i>For Factory Installed Accessory, Deduct</i>	-323.67	
26 29 13 13-0197 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEA1).....	2,491.18	215.78
<i>For Factory Installed Accessory, Deduct</i>	-431.56	
26 29 13 13-0198 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFA1).....	5,643.14	323.67
<i>For Factory Installed Accessory, Deduct</i>	-647.34	
26 29 13 13-0199 EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGA1).....	12,860.55	431.56
<i>For Factory Installed Accessory, Deduct</i>	-863.11	
26 29 13 13-0200 EA Size 6, 3 Phase, 3 Pole, 150 HP At 200 Volt, 200 HP At 230 Volt, 400 HP At 460/575 Volt, 540 Amp, NEMA 12 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SHA2).....	30,626.83	647.34
<i>For Factory Installed Accessory, Deduct</i>	-1,294.67	
<b>26 29 13 13-0201 NEMA 3R, Non Reversing, Magnetic Starters (26 29 13 13-0199)</b>		
26 29 13 13-0202 EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH1).....	810.08	118.67
<i>For Factory Installed Accessory, Deduct</i>	-237.36	
26 29 13 13-0203 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBH2).....	876.46	129.47
<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0204 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH1).....	895.28	129.47
<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0205 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH3).....	962.57	140.26
<i>For Factory Installed Accessory, Deduct</i>	-280.51	
26 29 13 13-0206 EA Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 36 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCH2).....	1,057.57	140.26
<i>For Factory Installed Accessory, Deduct</i>	-280.51	
26 29 13 13-0207 EA Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH6).....	1,495.78	129.47
<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0208 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDH1).....	1,642.98	161.83
<i>For Factory Installed Accessory, Deduct</i>	-323.67	
26 29 13 13-0209 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEH1).....	2,491.18	215.78
<i>For Factory Installed Accessory, Deduct</i>	-431.56	
26 29 13 13-0210 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 3R Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFH1).....	5,643.14	323.67
<i>For Factory Installed Accessory, Deduct</i>	-647.34	
<b>26 29 13 13-0211 NEMA 3R/4/4X/7/9, Non Reversing, Magnetic Starters (26 29 13 13-0199)</b>		
Note: Bolted cast aluminum enclosure.		
26 29 13 13-0212 EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT4).....	2,293.81	183.41
<i>For Factory Installed Accessory, Deduct</i>	-366.83	
26 29 13 13-0213 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR1).....	2,815.43	183.41
<i>For Factory Installed Accessory, Deduct</i>	-366.83	
26 29 13 13-0214 EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCR3).....	2,901.54	194.20
<i>For Factory Installed Accessory, Deduct</i>	-388.40	
26 29 13 13-0215 EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDR1).....	4,488.97	215.78
<i>For Factory Installed Accessory, Deduct</i>	-431.56	
26 29 13 13-0216 EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SET43).....	5,414.24	269.73
<i>For Factory Installed Accessory, Deduct</i>	-539.44	
26 29 13 13-0217 EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 3R/4/4X/7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SFT41).....	8,622.67	377.61
<i>For Factory Installed Accessory, Deduct</i>	-755.23	



	<b>Electrical</b>	<b>26</b>
	<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>
	<b>Low-Voltage Controllers</b>	<b>26 29</b>

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
26 29 13 13-0218		<b>NEMA 4/4X, Non Reversing, Magnetic Starters</b> (26 29 13 13-0159) Note: Brushed stainless steel enclosure.		
26 29 13 13-0219	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW11).....	1,103.15	118.67
		<i>For Factory Installed Accessory, Deduct</i>	-237.36	
26 29 13 13-0220	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBW12).....	1,170.43	129.47
		<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0221	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW11).....	1,201.80	129.47
		<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0222	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW13).....	1,269.09	140.26
		<i>For Factory Installed Accessory, Deduct</i>	-280.51	
26 29 13 13-0223	EA	Size 1, 1 Phase, 2 Pole, 3 HP At 200/230 Volt, 7-1/2 HP At 460/575 Volt, 36 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCW12).....	1,364.10	140.26
		<i>For Factory Installed Accessory, Deduct</i>	-280.51	
26 29 13 13-0224	EA	Size 2, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 45 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW16).....	2,133.03	129.47
		<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0225	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW11).....	3,460.95	215.78
		<i>For Factory Installed Accessory, Deduct</i>	-431.56	
26 29 13 13-0226	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SF11).....	6,766.16	323.67
		<i>For Factory Installed Accessory, Deduct</i>	-647.34	
26 29 13 13-0227	EA	Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, NEMA 4/4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SGW11).....	15,019.66	431.56
		<i>For Factory Installed Accessory, Deduct</i>	-863.11	
26 29 13 13-0228		<b>NEMA 4X, Non Reversing, Magnetic Starters</b> (26 29 13 13-0159) Note: Glass polyester enclosure.		
26 29 13 13-0229	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDW21).....	2,282.91	161.83
		<i>For Factory Installed Accessory, Deduct</i>	-323.67	
26 29 13 13-0230	EA	Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SEW21).....	4,219.19	215.78
		<i>For Factory Installed Accessory, Deduct</i>	-431.56	
26 29 13 13-0231	EA	Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 4X Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SF21).....	8,296.99	323.67
		<i>For Factory Installed Accessory, Deduct</i>	-647.34	
26 29 13 13-0232		<b>NEMA 7/9, Non Reversing, Magnetic Starters</b> (26 29 13 13-0159) Note: Bolted cast iron enclosure.		
26 29 13 13-0233	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT1).....	2,219.34	172.63
		<i>For Factory Installed Accessory, Deduct</i>	-345.24	
26 29 13 13-0234	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SBT2).....	2,293.81	183.41
		<i>For Factory Installed Accessory, Deduct</i>	-366.83	
26 29 13 13-0235	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT1).....	2,326.07	183.41
		<i>For Factory Installed Accessory, Deduct</i>	-366.83	
26 29 13 13-0236	EA	Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT3).....	2,396.94	194.20
		<i>For Factory Installed Accessory, Deduct</i>	-388.40	
26 29 13 13-0237	EA	Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 36 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SCT2).....	2,506.28	194.20
		<i>For Factory Installed Accessory, Deduct</i>	-388.40	
26 29 13 13-0238	EA	Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 7/9 Enclosure, Full Voltage, Non Reversing Magnetic Starter (Square D 8536SDT1).....	3,678.74	215.78
		<i>For Factory Installed Accessory, Deduct</i>	-431.56	
26 29 13 13-0239		<b>Reversing, Magnetic Starters</b> (26 29 13 13-0083)		
26 29 13 13-0240		<b>Open Enclosure, Reversing, Magnetic Starters</b> (26 29 13 13-0239)		
26 29 13 13-0241	EA	Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO13).....	1,053.99	140.26
		<i>For Factory Installed Accessory, Deduct</i>	-280.51	
26 29 13 13-0242	EA	Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAO16).....	1,110.45	140.26
		<i>For Factory Installed Accessory, Deduct</i>	-280.51	
26 29 13 13-0243	EA	Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO1).....	1,228.83	151.04
		<i>For Factory Installed Accessory, Deduct</i>	-302.09	
26 29 13 13-0244	EA	Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO2).....	1,275.51	161.83
		<i>For Factory Installed Accessory, Deduct</i>	-323.67	
26 29 13 13-0245	EA	Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBO10).....	1,306.88	161.83
		<i>For Factory Installed Accessory, Deduct</i>	-323.67	

**26 Electrical**

**26 20 Low-Voltage Electrical Distribution**

**26 29 Low-Voltage Controllers**



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29	13	13-0246	EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO2).....	1,398.35	172.63
			<i>For Factory Installed Accessory, Deduct</i>	-345.24	
26 29	13	13-0247	EA Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO3).....	1,457.61	188.80
			<i>For Factory Installed Accessory, Deduct</i>	-377.61	
26 29	13	13-0248	EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCO7).....	1,489.88	188.80
			<i>For Factory Installed Accessory, Deduct</i>	-377.61	
26 29	13	13-0249	EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDO1).....	2,536.89	215.78
			<i>For Factory Installed Accessory, Deduct</i>	-431.56	
26 29	13	13-0250	EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEO1).....	4,144.58	323.67
			<i>For Factory Installed Accessory, Deduct</i>	-647.34	
26 29	13	13-0251	EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230, 100 HP At 460/575 Volt, 135 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFO1).....	9,512.43	485.50
			<i>For Factory Installed Accessory, Deduct</i>	-971.00	
26 29	13	13-0252	EA Size 5, 3 Phase, 3 Pole, 75 HP At 200 Volt, 100 HP At 230 Volt, 200 HP At 460/575 Volt, 270 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SGO1).....	17,704.44	647.34
			<i>For Factory Installed Accessory, Deduct</i>	-1,294.67	
26 29	13	13-0253	EA Size 7, 3 Phase, 3 Pole, 300 HP At 230 Volt, 600 HP At 460/575 Volt, 810 Amp, Open Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SJO1).....	57,269.98	1,186.78
			<i>For Factory Installed Accessory, Deduct</i>	-2,373.56	
<b>26 29 13 13-0254 NEMA 1, Reversing, Magnetic Starters (26 29 13 13-0239)</b>					
26 29	13	13-0255	EA Size 00, 1 Phase, 2 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG13).....	1,086.19	129.47
			<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29	13	13-0256	EA Size 00, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG15).....	1,134.65	140.26
			<i>For Factory Installed Accessory, Deduct</i>	-280.51	
26 29	13	13-0257	EA Size 00, 3 Phase, 3 Pole, 1-1/2 HP At 200/230 Volt, 2 HP At 460/575 Volt, 9 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SAG16).....	1,166.92	140.26
			<i>For Factory Installed Accessory, Deduct</i>	-280.51	
26 29	13	13-0258	EA Size 0, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG1).....	1,282.61	151.04
			<i>For Factory Installed Accessory, Deduct</i>	-302.09	
26 29	13	13-0259	EA Size 0, 1 Phase, 3 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG2).....	1,331.08	161.83
			<i>For Factory Installed Accessory, Deduct</i>	-323.67	
26 29	13	13-0260	EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBG4).....	1,363.34	161.83
			<i>For Factory Installed Accessory, Deduct</i>	-323.67	
26 29	13	13-0261	EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG2).....	1,479.02	172.63
			<i>For Factory Installed Accessory, Deduct</i>	-345.24	
26 29	13	13-0262	EA Size 1, 1 Phase, 3 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG6).....	1,538.28	188.80
			<i>For Factory Installed Accessory, Deduct</i>	-377.61	
26 29	13	13-0263	EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCG8).....	1,570.54	188.80
			<i>For Factory Installed Accessory, Deduct</i>	-377.61	
26 29	13	13-0264	EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDG2).....	2,746.62	215.78
			<i>For Factory Installed Accessory, Deduct</i>	-431.56	
26 29	13	13-0265	EA Size 3, 3 Phase, 3 Pole, 25 HP At 200 Volt, 30 HP At 230 Volt, 50 HP At 460/575 Volt, 90 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SEG2).....	4,507.57	323.67
			<i>For Factory Installed Accessory, Deduct</i>	-647.34	
26 29	13	13-0266	EA Size 4, 3 Phase, 3 Pole, 40 HP At 200 Volt, 50 HP At 230 Volt, 100 HP At 460/575 Volt, 135 Amp, NEMA 1 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SFG3).....	10,179.26	485.50
			<i>For Factory Installed Accessory, Deduct</i>	-971.00	
<b>26 29 13 13-0267 NEMA 12, Reversing, Magnetic Starters (26 29 13 13-0239)</b>					
26 29	13	13-0268	EA Size 0, 1 Phase, 3 Pole, 3/4 HP At 115 Volt, 1 HP At 230 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA2).....	1,560.52	161.83
			<i>For Factory Installed Accessory, Deduct</i>	-323.67	
26 29	13	13-0269	EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBA4).....	1,592.79	161.83
			<i>For Factory Installed Accessory, Deduct</i>	-323.67	
26 29	13	13-0270	EA Size 1, 3 Phase, 3 Pole, 7-1/2 HP At 200/230 Volt, 10 HP At 460/575 Volt, 27 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCA4).....	1,799.99	188.80
			<i>For Factory Installed Accessory, Deduct</i>	-377.61	
26 29	13	13-0271	EA Size 2, 3 Phase, 3 Pole, 10 HP At 200 Volt, 15 HP At 230 Volt, 25 HP At 460/575 Volt, 45 Amp, NEMA 12 Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SDA1).....	3,130.22	215.78
			<i>For Factory Installed Accessory, Deduct</i>	-431.56	
<b>26 29 13 13-0272 NEMA 4X, Reversing, Magnetic Starters (26 29 13 13-0239)</b>					
			Note: Brushed stainless steel enclosure.		
26 29	13	13-0273	EA Size 0, 3 Phase, 3 Pole, 3 HP At 200/230 Volt, 5 HP At 460/575 Volt, 18 Amp, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SBW14).....	1,949.50	161.83
			<i>For Factory Installed Accessory, Deduct</i>	-323.67	





MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0274 EA Size 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 27 Amp, NEMA 4/4X Enclosure, Full Voltage, Reversing Magnetic Starter (Square D 8736SCW11) .....	2,296.42	172.63
<i>For Factory Installed Accessory, Deduct</i>	-345.24	
<b>26 29 13 13-0275 Magnetic Contactor/Starters Accessories</b> <small>(26 29 13 13-0083)</small>		
26 29 13 13-0276 EA NEMA 1 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA2) .....	145.53	13.49
<i>For Factory Installed Accessory, Deduct</i>	-26.97	
26 29 13 13-0277 EA NEMA 12 Enclosure Start/Stop Push Button Kit, Contactor/Starter Accessory (Square D 9999SA3) .....	246.71	13.49
<i>For Factory Installed Accessory, Deduct</i>	-26.97	
26 29 13 13-0278 EA NEMA 1 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC2).....	145.53	13.49
<i>For Factory Installed Accessory, Deduct</i>	-26.97	
26 29 13 13-0279 EA NEMA 12 Enclosure Selector Switch Kit, Contactor/Starter Accessory (Square D 9999SC8).....	246.71	13.49
<i>For Factory Installed Accessory, Deduct</i>	-26.97	
26 29 13 13-0280 EA NEMA 1 And 12 Enclosure Red Pilot Light Kit, Contactor/Starter Accessory (Square D 9999SP2R) .....	246.71	13.49
<i>For Factory Installed Accessory, Deduct</i>	-26.97	
26 29 13 13-0281 EA Internal Nonconvertible Contact Block Kit, 1 Contact, Contactor/Starter Accessory (Square D 9999SX11).....	122.75	10.79
<i>For Factory Installed Accessory, Deduct</i>	-21.57	
26 29 13 13-0282 EA External Convertible Field Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX6) .....	109.47	10.79
<i>For Factory Installed Accessory, Deduct</i>	-21.57	
26 29 13 13-0283 EA External Convertible Field Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX8) .....	145.53	13.49
<i>For Factory Installed Accessory, Deduct</i>	-26.97	
26 29 13 13-0284 EA External Field Non Convertible Contact, 1 Contact, Contactor/Starter Accessory (Square D 9999SX13).....	122.75	10.79
<i>For Factory Installed Accessory, Deduct</i>	-21.57	
26 29 13 13-0285 EA External Field Non Convertible Contacts, 2 Contacts Or 1 Overlapping Contact, Contactor/Starter Accessory (Square D 9999SX15) .....	163.93	13.49
<i>For Factory Installed Accessory, Deduct</i>	-26.97	
26 29 13 13-0286 EA 30 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB6) .....	183.06	10.79
<i>For Factory Installed Accessory, Deduct</i>	-21.57	
26 29 13 13-0287 EA 45 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB11) .....	314.90	10.79
<i>For Factory Installed Accessory, Deduct</i>	-21.57	
26 29 13 13-0288 EA 60 Amp, 1 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB21) .....	334.32	10.79
<i>For Factory Installed Accessory, Deduct</i>	-21.57	
26 29 13 13-0289 EA 30 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB8) .....	400.02	13.49
<i>For Factory Installed Accessory, Deduct</i>	-26.97	
26 29 13 13-0290 EA 45 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB13) .....	697.44	13.49
<i>For Factory Installed Accessory, Deduct</i>	-26.97	
26 29 13 13-0291 EA 60 Amp, 2 Contact Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SB23) .....	697.44	13.49
<i>For Factory Installed Accessory, Deduct</i>	-26.97	
26 29 13 13-0292 EA Adapter Bracket For Power Pole Adder Kit, Contactor/Starter Accessory (Square D 9999SBT1).....	42.87	8.09
<i>For Factory Installed Accessory, Deduct</i>	-16.19	
26 29 13 13-0293 EA 1 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF3).....	86.98	10.79
<i>For Factory Installed Accessory, Deduct</i>	-21.57	
26 29 13 13-0294 EA 2 Pole Control Circuit Fuse Holder, Contactor/Starter Accessory (Square D 9999SF4).....	114.87	13.49
<i>For Factory Installed Accessory, Deduct</i>	-26.97	
26 29 13 13-0295 EA Transient Suppression Module, Contactor/Starter Accessory (Square D 9999ST1).....	90.34	13.49
<i>For Factory Installed Accessory, Deduct</i>	-26.97	
26 29 13 13-0296 EA Terminal Block, Contactor/Starter Accessory (Square D 9999T7).....	50.23	8.09
<i>For Factory Installed Accessory, Deduct</i>	-16.19	
26 29 13 13-0297 EA Closing Plate For NEMA 1 Enclosures, Contactor/Starter Accessory (Square D 9999SG1).....	30.81	8.09
<i>For Factory Installed Accessory, Deduct</i>	-16.19	
26 29 13 13-0298 EA 1 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R39) .....	159.55	10.79
<i>For Factory Installed Accessory, Deduct</i>	-21.57	
26 29 13 13-0299 EA 2 Pole Disconnect Switch And Breaker Interlock, Contactor/Starter Accessory (Square D 9999R40) .....	275.33	13.49
<i>For Factory Installed Accessory, Deduct</i>	-26.97	
<b>26 29 13 13-0300 Definite Purpose Starters</b> <small>(26 29 13 13)</small>		
<b>26 29 13 13-0301 Open Enclosure, Definite Purpose Starter</b> <small>(26 29 13 13-0300)</small>		
26 29 13 13-0302 EA Open Enclosure, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO13) .....	525.12	129.47
<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0303 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO22) .....	524.23	129.47
<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0304 EA Open Enclosure, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO23) .....	567.32	140.26
<i>For Factory Installed Accessory, Deduct</i>	-280.51	
26 29 13 13-0305 EA Open Enclosure, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO32) .....	557.39	129.47
<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0306 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO33) .....	605.86	140.26
<i>For Factory Installed Accessory, Deduct</i>	-280.51	
26 29 13 13-0307 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO42) .....	586.07	129.47
<i>For Factory Installed Accessory, Deduct</i>	-258.93	
26 29 13 13-0308 EA Open Enclosure, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO43) .....	681.28	161.83
<i>For Factory Installed Accessory, Deduct</i>	-323.67	

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0309 EA Open Enclosure, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO52) .....	755.67	161.83
<i>For Factory Installed Accessory, Deduct</i> .....	-323.67	
26 29 13 13-0310 EA Open Enclosure, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSO53) .....	949.43	188.80
<i>For Factory Installed Accessory, Deduct</i> .....	-377.61	
<b>26 29 13 13-0311 NEMA 1, Definite Purpose Starter</b> <small>(26 29 13 13-0300)</small>		
26 29 13 13-0312 EA NEMA 1, 1 Phase, 2 Pole, 1 HP At 115 Volt, 2 HP At 230 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG12) .....	534.92	118.67
<i>For Factory Installed Accessory, Deduct</i> .....	-237.36	
26 29 13 13-0313 EA NEMA 1, 3 Phase, 3 Pole, 3 HP At 230 Volt, 5 HP At 460/575 Volt, 20 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG13) .....	578.00	129.47
<i>For Factory Installed Accessory, Deduct</i> .....	-258.93	
26 29 13 13-0314 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 3 HP At 230 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG22) .....	576.21	129.47
<i>For Factory Installed Accessory, Deduct</i> .....	-258.93	
26 29 13 13-0315 EA NEMA 1, 3 Phase, 3 Pole, 7.5 HP At 230 Volt, 10 HP At 460/575 Volt, 25 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG23) .....	621.99	140.26
<i>For Factory Installed Accessory, Deduct</i> .....	-280.51	
26 29 13 13-0316 EA NEMA 1, 1 Phase, 2 Pole, 2 HP At 115 Volt, 5 HP At 230 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG32) .....	610.27	129.47
<i>For Factory Installed Accessory, Deduct</i> .....	-258.93	
26 29 13 13-0317 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 15 HP At 460/575 Volt, 30 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG33) .....	659.63	140.26
<i>For Factory Installed Accessory, Deduct</i> .....	-280.51	
26 29 13 13-0318 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 7-1/2 HP At 230 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG42) .....	640.74	129.47
<i>For Factory Installed Accessory, Deduct</i> .....	-258.93	
26 29 13 13-0319 EA NEMA 1, 3 Phase, 3 Pole, 10 HP At 230 Volt, 20 HP At 460/575 Volt, 40 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG43) .....	735.06	161.83
<i>For Factory Installed Accessory, Deduct</i> .....	-323.67	
26 29 13 13-0320 EA NEMA 1, 1 Phase, 2 Pole, 3 HP At 115 Volt, 10 HP At 230 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG52) .....	806.76	161.83
<i>For Factory Installed Accessory, Deduct</i> .....	-323.67	
26 29 13 13-0321 EA NEMA 1, 3 Phase, 3 Pole, 15 HP At 230 Volt, 30 HP At 460/575 Volt, 50 Amp, Definite Purpose Starter With Thermal Overload Protection (Square D 8911DPSG53) .....	1,001.41	188.80
<i>For Factory Installed Accessory, Deduct</i> .....	-377.61	
<b>26 29 13 13-0322 Definite Purpose Starter Accessory</b> <small>(26 29 13 13-0300)</small>		
26 29 13 13-0323 EA Start-Stop Push Button Kit, Definite Purpose Starter Accessory .....	163.93	13.49
Note: Or Hand-Off-Auto Selector Switch Kit		
<i>For Factory Installed Accessory, Deduct</i> .....	-26.97	
<b>26 29 13 13-0324 Panel Mounted Miniature Contactor</b> <small>(26 29 13 13)</small>		
<b>26 29 13 13-0325 Non Reversing, Panel Mounted Miniature Contactor</b> <small>(26 29 13 13-0324)</small>		
26 29 13 13-0326 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....	158.98	53.94
26 29 13 13-0327 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....	185.89	59.34
26 29 13 13-0328 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....	185.89	59.34
26 29 13 13-0329 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LC1K) .....	206.55	64.73
26 29 13 13-0330 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....	175.11	53.94
26 29 13 13-0331 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....	184.07	53.94
26 29 13 13-0332 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....	201.13	59.34
26 29 13 13-0333 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....	210.09	59.34
26 29 13 13-0334 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....	206.50	59.34
26 29 13 13-0335 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....	210.09	59.34
26 29 13 13-0336 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K) .....	224.47	64.73



<b>Electrical</b>	<b>26</b>	
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	<b>26</b>
<b>Low-Voltage Controllers</b>	<b>26 29</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0337 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	215.47	59.34
26 29 13 13-0338 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP1K).....	233.44	64.73
26 29 13 13-0339 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	217.26	59.34
26 29 13 13-0340 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	217.26	59.34
26 29 13 13-0341 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	242.40	64.73
26 29 13 13-0342 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Non Reversing, Panel Mounted Miniature Contactor (Square D LP4K).....	242.40	64.73
<b>26 29 13 13-0343 Reversing, Panel Mounted Miniature Contactor</b> <small>(26 29 13 13-0324)</small>		
26 29 13 13-0344 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	224.40	53.94
26 29 13 13-0345 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	242.33	53.94
26 29 13 13-0346 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	268.35	59.34
26 29 13 13-0347 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	268.35	59.34
26 29 13 13-0348 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, AC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	286.27	59.34
26 29 13 13-0349 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	300.66	64.73
26 29 13 13-0350 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 4 Pole, Without Auxiliary Contacts, 12 Amp, 20 Amp, AC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LC2K).....	300.66	64.73
26 29 13 13-0351 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	257.57	53.94
26 29 13 13-0352 EA 3 Phase (1-1/2 HP At 200/230 Volt, 3 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 6 Amp, 15 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	275.49	53.94
26 29 13 13-0353 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	299.72	59.34
26 29 13 13-0354 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	317.64	59.34
26 29 13 13-0355 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	337.40	64.73
26 29 13 13-0356 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP2K).....	355.33	64.73
26 29 13 13-0357 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	289.86	59.34
26 29 13 13-0358 EA 3 Phase (2 HP At 200 Volt, 3 HP At 230 Volt, 5 HP At 460/575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 9 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	331.98	59.34
26 29 13 13-0359 EA 3 Phase (3 HP At 200/230 Volt, 7-1/2 HP At 460 Volt, 10 HP At 575 Volt), 1 Phase (1/2 HP At 115 Volt, 1-1/2 HP At 230 Volt), 3 Pole, Auxiliary Contacts, 12 Amp, 20 Amp, DC Low Consumption Coil With Integral Suppression, Reversing, Panel Mounted Miniature Contactor (Square D LP5K).....	375.05	64.73
<b>26 29 13 13-0360 Panel Mounted Miniature Contactor Accessories</b> <small>(26 29 13 13-0324)</small>		
26 29 13 13-0361 EA 2 Auxiliary Contacts, 10 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA1KN02).....	68.01	26.97
26 29 13 13-0362 EA 4 Auxiliary Contacts, 10 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA1KN40).....	74.93	26.97
26 29 13 13-0363 EA Electronic Time Delay Contact, 2 Amp, Panel Mounted Miniature Contactor Accessory (Square D LA2KT2U).....	87.46	26.97
26 29 13 13-0364 EA Overload Relay, Panel Mounted Miniature Contactor Accessory (Square D LR2K0301).....	112.39	26.97
<b>26 29 13 13-0365 Reduced Voltage Auto Transformer Type 240-600 Volt, 3 Pole</b> <small>(26 29 13 13)</small>		
<b>26 29 13 13-0366 NEMA 1 Enclosure</b> <small>(26 29 13 13-0365)</small>		
26 29 13 13-0367 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing <i>For NEMA 4, Add</i>	6,751.93 711.94	517.21

**26 Electrical****26 20 Low-Voltage Electrical Distribution****26 29 Low-Voltage Controllers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0368 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing..... <i>For NEMA 4, Add</i>	11,784.74 1,300.41	689.62
26 29 13 13-0369 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing..... <i>For NEMA 4, Add</i>	20,620.22 2,373.45	818.92
26 29 13 13-0370 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing..... <i>For NEMA 4, Add</i>	50,259.82 6,033.05	1,002.09
26 29 13 13-0371 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 1, 240 - 600 Volt, 3 Pole, Non-Reversing..... <i>For NEMA 4, Add</i>	80,178.41 9,701.61	1,282.25
<b>26 29 13 13-0372 NEMA 12 Enclosure</b> <small>(26 29 13 13-0365)</small>		
26 29 13 13-0373 EA Reduced Voltage Auto Transformer Starter, Size 3, 50 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	6,704.49	528.20
26 29 13 13-0374 EA Reduced Voltage Auto Transformer Starter, Size 4, 100 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	11,698.09	690.69
26 29 13 13-0375 EA Reduced Voltage Auto Transformer Starter, Size 5, 200 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	20,462.06	816.33
26 29 13 13-0376 EA Reduced Voltage Auto Transformer Starter, Size 6, 300 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	49,857.81	997.68
26 29 13 13-0377 EA Reduced Voltage Auto Transformer Starter, Size 7, 600 HP, NEMA 12, 240 - 600 Volt, 3 Pole, Non-Reversing.....	79,531.94	1,282.79
<b>26 29 13 13-0378 Factory Modifications Pilot Devices</b> <small>(26 29 13 13-0365)</small>		
26 29 13 13-0379 EA Start-Stop Push-button, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	167.74	
26 29 13 13-0380 EA H-O-A Select Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	184.99	
26 29 13 13-0381 EA Forward-Reverse-Stop, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	314.89	
26 29 13 13-0382 EA Pilot Light, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	171.09	
26 29 13 13-0383 EA Fused Control Circuit, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	246.01	
26 29 13 13-0384 EA Auxiliary Interlock, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	123.01	
26 29 13 13-0385 EA Auxiliary Relay, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Pilot Device.....	401.48	
<b>26 29 13 13-0386 Factory Modifications Meters</b> <small>(26 29 13 13-0365)</small>		
26 29 13 13-0387 EA Ammeter And Switch, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,613.84	
26 29 13 13-0388 EA Voltmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	1,558.74	
26 29 13 13-0389 EA Wattmeter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	551.07	
26 29 13 13-0390 EA Elapsed-time Meter, Factory Modification Reduced Voltage Auto Transformer Starter, 240 - 600 Volt, 3 Phase, Meter.....	456.61	
<b>26 29 13 13-0391 Factory Modifications Main Circuit Breakers</b> <small>(26 29 13 13-0365)</small>		
26 29 13 13-0392 EA Reduced Voltage Auto Transformer Starter, Size 3, Circuit Breaker, Factory Modification Main Circuit Breaker.....	2,132.92	
26 29 13 13-0393 EA Reduced Voltage Auto Transformer Starter, Size 4, Circuit Breaker, Factory Modification Main Circuit Breaker.....	3,900.85	
26 29 13 13-0394 EA Reduced Voltage Auto Transformer Starter, Size 5-7, Circuit Breaker, Factory Modification Main Circuit Breaker.....	8,297.48	
<b>26 29 13 13-0395 Factory Modifications Addition</b> <small>(26 29 13 13-0365)</small>		
Note: For reversing service auto transformer type.		
26 29 13 13-0396 EA Reduced Voltage Auto Transformer Starter, Size 3, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	358.21	
26 29 13 13-0397 EA Reduced Voltage Auto Transformer Starter, Size 4, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	358.21	
26 29 13 13-0398 EA Reduced Voltage Auto Transformer Starter, Size 5, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	358.21	
26 29 13 13-0399 EA Reduced Voltage Auto Transformer Starter, Size 6, 7, Factory Modification For Reversing Type 240 - 600 Volt, 3 Phase.....	358.21	
<b>26 29 13 13-0400 Combination Starters Non-Reversing</b> <small>(26 29 13 13)</small>		
<b>26 29 13 13-0401 240-600 Volts, 3-Pole</b> <small>(26 29 13 13-0400)</small>		
<b>26 29 13 13-0402 NEMA 1 With Disconnect Switch</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0403 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase..... <i>For Electronic Overloads, Add</i>	1,535.99 197.06	247.83
26 29 13 13-0404 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase..... <i>For Electronic Overloads, Add</i>	1,874.93 207.88	387.91
26 29 13 13-0405 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase..... <i>For Electronic Overloads, Add</i>	2,630.30 329.15	452.56
26 29 13 13-0406 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase..... <i>For Electronic Overloads, Add</i>	4,005.88 547.86	560.31
26 29 13 13-0407 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase..... <i>For Electronic Overloads, Add</i>	7,357.67 1,056.74	894.34
26 29 13 13-0408 EA Combination Starter, Size 5, NEMA 1 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase..... <i>For Electronic Overloads, Add</i>	14,732.28 2,372.62	1,120.62
<b>26 29 13 13-0409 NEMA 1 With Circuit Breaker</b> <small>(26 29 13 13-0401)</small>		



<b>Electrical</b>	<b>26</b>	<b>26</b>
<b>Low-Voltage Electrical Distribution</b>	<b>26 20</b>	
<b>Low-Voltage Controllers</b>	<b>26 29</b>	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0410 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,946.28	247.83
<i>For Electronic Overloads, Add</i>	275.01	
26 29 13 13-0411 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,285.23	387.91
<i>For Electronic Overloads, Add</i>	285.84	
26 29 13 13-0412 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,029.20	452.56
<i>For Electronic Overloads, Add</i>	404.94	
26 29 13 13-0413 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,222.43	560.31
<i>For Electronic Overloads, Add</i>	589.00	
26 29 13 13-0414 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,599.95	894.34
<i>For Electronic Overloads, Add</i>	1,292.78	
26 29 13 13-0415 EA Combination Starter, Size 5, NEMA 1 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	18,026.05	1,120.62
<i>For Electronic Overloads, Add</i>	2,998.43	
<b>26 29 13 13-0416 Factory Modifications For NEMA 1 Enclosure (26 29 13 13-0401)</b>		
26 29 13 13-0417 EA Start-Stop Push-button, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	186.85	
26 29 13 13-0418 EA H-O-A Select Switch, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	438.86	
26 29 13 13-0419 EA Pilot Light, Factory Modifications - NEMA 1 Combination Motor Starter, 240 - 600 Volt.....	302.88	
<b>26 29 13 13-0420 NEMA 4 With Disconnect Switch (26 29 13 13-0401)</b>		
26 29 13 13-0421 EA Combination Starter, Size 0, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,796.39	323.26
<i>For Electronic Overloads, Add</i>	404.94	
26 29 13 13-0422 EA Combination Starter, Size 1, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,086.19	452.56
<i>For Electronic Overloads, Add</i>	415.77	
26 29 13 13-0423 EA Combination Starter, Size 2, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,416.85	495.66
<i>For Electronic Overloads, Add</i>	649.64	
26 29 13 13-0424 EA Combination Starter, Size 3, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	7,021.17	603.41
<i>For Electronic Overloads, Add</i>	1,106.55	
26 29 13 13-0425 EA Combination Starter, Size 4, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	11,118.72	894.34
<i>For Electronic Overloads, Add</i>	1,771.34	
26 29 13 13-0426 EA Combination Starter, Size 5, NEMA 4 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	24,328.65	1,120.62
<i>For Electronic Overloads, Add</i>	4,195.93	
<b>26 29 13 13-0427 NEMA 4 With Circuit Breaker (26 29 13 13-0401)</b>		
26 29 13 13-0428 EA Combination Starter, Size 0, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,206.69	323.26
<i>For Electronic Overloads, Add</i>	482.90	
26 29 13 13-0429 EA Combination Starter, Size 1, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,496.48	452.56
<i>For Electronic Overloads, Add</i>	493.72	
26 29 13 13-0430 EA Combination Starter, Size 2, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,815.75	495.66
<i>For Electronic Overloads, Add</i>	725.43	
26 29 13 13-0431 EA Combination Starter, Size 3, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	7,237.72	603.41
<i>For Electronic Overloads, Add</i>	1,147.69	
26 29 13 13-0432 EA Combination Starter, Size 4, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	12,361.00	894.34
<i>For Electronic Overloads, Add</i>	2,007.37	
26 29 13 13-0433 EA Combination Starter, Size 5, NEMA 4 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	23,040.78	1,120.62
<i>For Electronic Overloads, Add</i>	3,951.23	
<b>26 29 13 13-0434 Factory Modifications For NEMA 4 Enclosure (26 29 13 13-0401)</b>		
26 29 13 13-0435 EA Start-Stop Push-button, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	186.87	
26 29 13 13-0436 EA H-O-A Select Switch, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	438.86	
26 29 13 13-0437 EA Pilot Light, Factory Modifications - NEMA 4 Combination Motor Starter, 240 - 600 Volt.....	302.88	
<b>26 29 13 13-0438 NEMA 12 With Disconnect Switch (26 29 13 13-0401)</b>		
26 29 13 13-0439 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,587.84	249.45
<i>For Electronic Overloads, Add</i>	206.91	
26 29 13 13-0440 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	1,929.64	390.38
<i>For Electronic Overloads, Add</i>	218.28	
26 29 13 13-0441 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,716.92	449.00
<i>For Electronic Overloads, Add</i>	345.61	
26 29 13 13-0442 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,150.05	561.18
<i>For Electronic Overloads, Add</i>	575.25	
26 29 13 13-0443 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	7,635.75	898.01
<i>For Electronic Overloads, Add</i>	1,109.58	
26 29 13 13-0444 EA Combination Starter, Size 5, NEMA 12 With Disconnect Switch Non-Reversing, 240 - 600 Volt, 3 Phase.....	15,356.64	1,122.34
<i>For Electronic Overloads, Add</i>	2,491.24	
<b>26 29 13 13-0445 NEMA 12 With Circuit Breaker (26 29 13 13-0401)</b>		
26 29 13 13-0446 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,077.77	249.45
<i>For Electronic Overloads, Add</i>	299.99	
26 29 13 13-0447 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	2,421.89	390.38
<i>For Electronic Overloads, Add</i>	311.81	
26 29 13 13-0448 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,222.80	449.00
<i>For Electronic Overloads, Add</i>	441.72	
26 29 13 13-0449 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,504.02	561.18
<i>For Electronic Overloads, Add</i>	642.51	
26 29 13 13-0450 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	9,218.02	898.01
<i>For Electronic Overloads, Add</i>	1,410.21	

<b>26</b>	<b>Electrical</b>
<b>26 20</b>	<b>Low-Voltage Electrical Distribution</b>
<b>26 29</b>	<b>Low-Voltage Controllers</b>



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
26 29 13 13-0451 EA Combination Starter, Size 5, NEMA 12 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase ..... <i>For Electronic Overloads, Add</i>	19,459.57 3,270.80	1,122.34
<b>26 29 13 13-0452</b> <b>Factory Modifications For NEMA 12 Enclosure</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0453 EA Start-Stop Push-button, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt .....	185.31	
26 29 13 13-0454 EA H-O-A Select Switch, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	435.21	
26 29 13 13-0455 EA Pilot Light, Factory Modifications - NEMA 12 Combination Motor Starter, 240 - 600 Volt.....	300.36	
<b>26 29 13 13-0456</b> <b>NEMA 7 Or 9 With Circuit Breaker</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0457 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	3,649.79	517.21
26 29 13 13-0458 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	4,943.34	689.62
26 29 13 13-0459 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	5,399.55	948.22
26 29 13 13-0460 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	8,008.57	1,293.03
26 29 13 13-0461 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Non-Reversing, 240 - 600 Volt, 3 Phase.....	12,050.03	1,810.24
<b>26 29 13 13-0462</b> <b>Factory Modifications For NEMA 7 Or 9 Enclosure</b> <small>(26 29 13 13-0401)</small>		
26 29 13 13-0463 EA Start-Stop Push-button, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,111.19	
26 29 13 13-0464 EA H-O-A Select Switch, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,111.19	
26 29 13 13-0465 EA Pilot Light, Factory Modifications - NEMA 7 Or 9 Combination Motor Starter, 240 - 600 Volt.....	1,111.19	
<b>26 29 13 13-0466</b> <b>Combination Starters Reversing</b> <small>(26 29 13 13)</small>		
<b>26 29 13 13-0467</b> <b>240-600 Volt, 3 Pole</b> <small>(26 29 13 13-0466)</small>		
<b>26 29 13 13-0468</b> <b>NEMA 1 With Disconnect Switch</b> <small>(26 29 13 13-0467)</small>		
26 29 13 13-0469 EA Combination Starter, Size 0, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	1,901.07	323.26
26 29 13 13-0470 EA Combination Starter, Size 1, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,216.64	452.56
26 29 13 13-0471 EA Combination Starter, Size 2, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	3,201.98	495.66
26 29 13 13-0472 EA Combination Starter, Size 3, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	4,849.87	603.41
26 29 13 13-0473 EA Combination Starter, Size 4, NEMA 1 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	9,445.98	894.34
<b>26 29 13 13-0474</b> <b>NEMA 1 With Circuit Breaker</b> <small>(26 29 13 13-0467)</small>		
26 29 13 13-0475 EA Combination Starter, Size 0, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,117.55	323.26
26 29 13 13-0476 EA Combination Starter, Size 1, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,447.73	452.56
26 29 13 13-0477 EA Combination Starter, Size 2, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,472.50	495.66
26 29 13 13-0478 EA Combination Starter, Size 3, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,477.43	603.41
26 29 13 13-0479 EA Combination Starter, Size 4, NEMA 1 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	10,177.71	894.34
<b>26 29 13 13-0480</b> <b>NEMA 12 With Disconnect Switch</b> <small>(26 29 13 13-0467)</small>		
26 29 13 13-0481 EA Combination Starter, Size 0, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,026.95	332.63
26 29 13 13-0482 EA Combination Starter, Size 1, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	2,350.96	449.00
26 29 13 13-0483 EA Combination Starter, Size 2, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	3,426.50	498.89
26 29 13 13-0484 EA Combination Starter, Size 3, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	5,221.91	598.67
26 29 13 13-0485 EA Combination Starter, Size 4, NEMA 12 With Disconnect Switch, Reversing, 240 - 600 Volt, 3 Phase.....	10,225.19	898.01
<b>26 29 13 13-0486</b> <b>NEMA 12 With Circuit Breaker</b> <small>(26 29 13 13-0467)</small>		
26 29 13 13-0487 EA Combination Starter, Size 0, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,265.49	332.63
26 29 13 13-0488 EA Combination Starter, Size 1, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	2,605.58	449.00
26 29 13 13-0489 EA Combination Starter, Size 2, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	3,724.57	498.89
26 29 13 13-0490 EA Combination Starter, Size 3, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,811.54	598.67
26 29 13 13-0491 EA Combination Starter, Size 4, NEMA 12 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	11,031.45	898.01
<b>26 29 13 13-0492</b> <b>NEMA 7 Or 9 With Circuit Breaker</b> <small>(26 29 13 13-0467)</small>		
26 29 13 13-0493 EA Combination Starter, Size 0, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,432.76	689.62
26 29 13 13-0494 EA Combination Starter, Size 1, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	4,775.42	862.01
26 29 13 13-0495 EA Combination Starter, Size 2, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	6,853.88	1,120.62
26 29 13 13-0496 EA Combination Starter, Size 3, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	10,871.75	1,465.42
26 29 13 13-0497 EA Combination Starter, Size 4, NEMA 7 Or 9 With Circuit Breaker, Reversing, 240 - 600 Volt, 3 Phase.....	19,773.30	1,982.63
<b>26 29 13 13-0498</b> <b>Solid State Motor Controllers</b> <small>(26 29 13 13)</small>		
<b>26 29 13 13-0499</b> <b>Adjustable Voltage Drives, DC Motors</b> <small>(26 29 13 13-0498)</small>		
26 29 13 13-0500 EA 0.5-1.5 HP DC Solid State Motor Controller, Reversing With Dynamic Braking .....	1,502.07	193.95
26 29 13 13-0501 EA 0.5-2.0 HP DC Solid State Motor Controller, Non-Reversing With Dynamic Braking.....	1,804.99	193.95
<b>26 29 13 13-0502</b> <b>Removal And Reinstallation Of Motor Starters</b> <small>(26 29 13 13)</small>		
Note: Includes storage and cleaning.		
26 29 13 13-0503 EA Removal And Reinstallation Of Up To 25 HP Motor Starter With Disconnect.....	769.65	



	<b>Electrical</b> <b>26</b>
	<b>Low-Voltage Electrical Distribution</b> <b>26 20</b>
	<b>Low-Voltage Controllers</b> <b>26 29</b>

	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
<b>26 29 13 13-0504</b>				<b>Auxiliary Devices</b> <small>(26 29 13 13)</small>		
	EA			Auxiliary Contact, Normally Open .....	451.35	107.76
	EA			Auxiliary Contact, Normally Closed .....	451.35	107.76
	EA			Pilot Light Kit .....	475.15	107.76
<b>26 29 23</b>				<b>Variable-Frequency Motor Controllers</b> <small>(26 29)</small>		
<b>26 29 23 00-0001</b>				<b>208/230 Volt Variable Frequency Drives</b> <small>(26 29 23)</small>		
				Note: 1 or 3 phase. Wall mounted. ABB ACH550 or ACS550 Series. Includes full voltage bypass. NEMA 1 enclosure.		
	EA			3/4 HP, 208/230 Volt Variable Frequency Drive .....	1,798.80	233.68
	EA			1 HP, 208/230 Volt Variable Frequency Drive .....	2,013.84	233.68
	EA			1-1/2 HP, 208/230 Volt Variable Frequency Drive .....	2,335.76	233.68
	EA			2 HP, 208/230 Volt Variable Frequency Drive .....	2,547.02	233.68
	EA			3 HP, 208/230 Volt Variable Frequency Drive .....	2,682.82	233.68
	EA			5 HP, 208/230 Volt Variable Frequency Drive .....	2,768.48	233.68
	EA			7.5 HP, 208/230 Volt Variable Frequency Drive .....	3,086.91	351.20
	EA			10 HP, 208/230 Volt Variable Frequency Drive .....	3,755.26	351.20
	EA			15 HP, 208/230 Volt Variable Frequency Drive .....	4,546.97	467.21
	EA			20 HP, 208/230 Volt Variable Frequency Drive .....	5,258.41	467.21
	EA			25 HP, 208/230 Volt Variable Frequency Drive .....	6,543.40	584.76
	EA			30 HP, 208/230 Volt Variable Frequency Drive .....	8,144.91	584.76
	EA			40 HP, 208/230 Volt Variable Frequency Drive .....	9,931.69	686.60
	EA			50 HP, 208/230 Volt Variable Frequency Drive .....	11,170.71	820.91
	EA			60 HP, 208/230 Volt Variable Frequency Drive .....	12,736.03	877.69
	EA			75 HP, 208/230 Volt Variable Frequency Drive .....	14,892.91	820.91
<b>26 29 23 00-0018</b>				<b>460/480 Volt Variable Frequency Drives</b> <small>(26 29 23)</small>		
				Note: 3 Phase. ABB ACH550 or ACS550 Series. Includes full voltage bypass. NEMA 1 enclosure.		
	EA			3 HP, 480 Volt Variable Frequency Drive .....	2,420.32	205.15
				Note: Wall mounted.		
	EA			5 HP, 480 Volt Variable Frequency Drive .....	2,598.57	233.68
				Note: Wall mounted.		
	EA			7.5 HP, 480 Volt Variable Frequency Drive .....	2,768.76	351.20
				Note: Wall mounted.		
	EA			10 HP, 480 Volt Variable Frequency Drive .....	3,073.59	351.21
				Note: Wall mounted.		
	EA			15 HP, 480 Volt Variable Frequency Drive .....	3,879.24	467.21
				Note: Wall mounted.		
	EA			20 HP, 480 Volt Variable Frequency Drive .....	4,533.18	467.24
				Note: Wall mounted.		
	EA			25 HP, 480 Volt Variable Frequency Drive .....	5,690.81	584.77
				Note: Wall mounted.		
	EA			30 HP, 480 Volt Variable Frequency Drive .....	6,492.55	584.76
				Note: Wall mounted.		
	EA			40 HP, 480 Volt Variable Frequency Drive .....	7,782.62	686.60
				Note: Wall mounted.		
	EA			50 HP, 480 Volt Variable Frequency Drive .....	9,212.78	820.91
				Note: Wall mounted.		
	EA			60 HP, 480 Volt Variable Frequency Drive .....	10,693.85	877.69
				Note: Wall mounted.		
	EA			75 HP, 480 Volt Variable Frequency Drive .....	12,098.19	934.49
				Note: Wall mounted.		
	EA			100 HP, 480 Volt Variable Frequency Drive .....	14,445.24	991.01
				Note: Wall mounted.		
	EA			125 HP, 480 Volt Variable Frequency Drive .....	17,118.96	1,046.68
				Note: Wall mounted.		
	EA			150 HP, 480 Volt Variable Frequency Drive .....	19,693.68	1,169.45
				Note: Floor mounted.		
	EA			200 HP, 480 Volt Variable Frequency Drive .....	26,446.23	1,282.17
				Note: Floor mounted.		
	EA			250 HP, 480 Volt Variable Frequency Drive .....	34,006.13	1,395.53
				Note: Floor mounted.		
	EA			300 HP, 480 Volt Variable Frequency Drive .....	40,041.56	1,635.41
				Note: Floor mounted.		
	EA			350 HP, 480 Volt Variable Frequency Drive .....	46,497.54	1,852.52
				Note: Floor mounted.		
	EA			400 HP, 480 Volt Variable Frequency Drive .....	54,427.09	2,093.35
				Note: Floor mounted.		
	EA			450 HP, 480 Volt Variable Frequency Drive .....	58,759.24	2,352.03
				Note: Floor mounted.		

**END OF SECTION 26**

26	<b>26</b>	<b>Electrical</b>
	26 20	Low-Voltage Electrical Distribution
	26 29	Low-Voltage Controllers




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MINOR				
CSI	UOM	DESCRIPTION	TOTAL DIRECT	DEMOLITION
			UNIT COST	UNIT COST

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