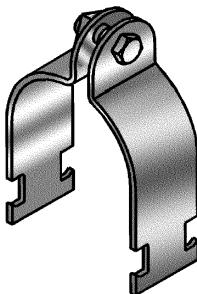
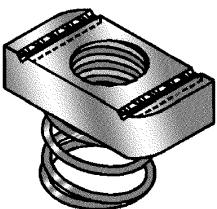
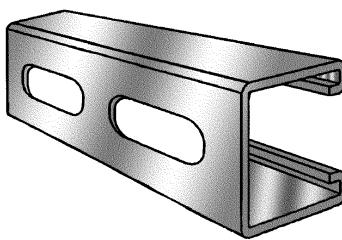
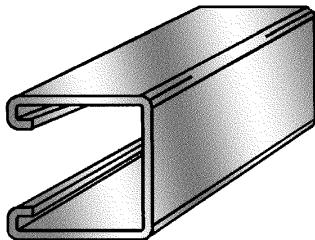


**EMPIRE**  
INDUSTRIES INC.

# STRUT & STRUT ACCESSORIES

ENGINEERING CATALOG



**Empire Strut and Strut Fittings Provide an  
Economical Solution for Electrical, Mechanical  
and Industrial Support Applications**

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Local 860-647-1431

Fax 860-647-1160

[www.empireindustries.com](http://www.empireindustries.com)



# Technical Data

## Materials

### CARBON STEEL

Channel is formed from high quality, structural grade carbon steel and has been manufactured in accordance with ASTM A570 specification Grade 33 (hot rolled) or ASTM-366 (cold rolled).

### STAINLESS STEEL

Channel is formed from chromium-nickel stainless steel manufactured in accordance with ASTM A420 specification offered in both AISI Type 304 and 316 material. Stainless steel is resistant to corrosion and is ideal for use in extreme ambient temperatures.

## Finishes

### PRE-GALVANIZED

A hot dip mill galvanized coating is produced by continuously passing the steel through a bath of molten zinc in accordance with ASTM A653. This coating is applied to steel master coils prior to slitting and fabrication. Pre-galvanized steel is not recommended for outdoor, unprotected use. It is suitable for extended exposure in dry mildly corrosive environments.

### HOT DIP GALVANIZED - AFTER FABRICATION

The finished channel is completely immersed in a bath of molten zinc, resulting in the complete coating of all surfaces of the product, including edges and welds. Channel that is hot dip galvanized has a total coating weight of 3.0 ounces of zinc per square foot (1.5 ounces per side) in accordance with ASTM A123 specification. This coating provides superior results for prolonged outdoor exposure applications.

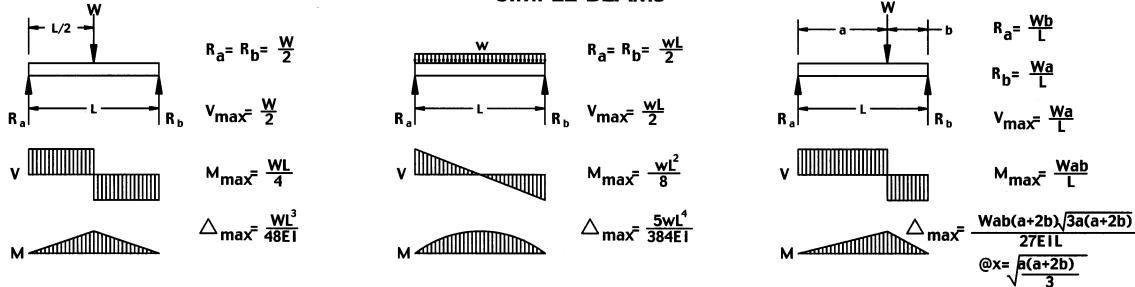
### GREEN POWDER COATING

Channel is coated after fabrication with a polyester powder finish. This coating provides a high quality appearance as well as surface durability. Once the channel is pre-treated and cleaned through a bonderite process, the coating is applied using an electro-static spray process. The channel then proceeds through a baking process which results in a chemical bond between the channel and the polyester powder finish.

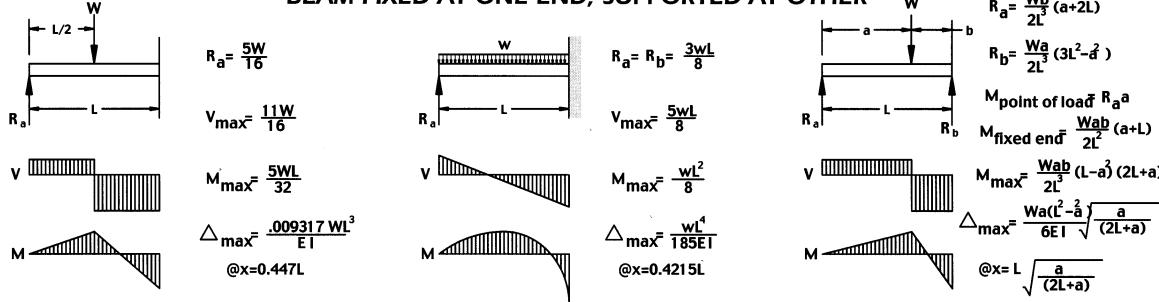
# Technical Data

## Common Beam Loading Formulas

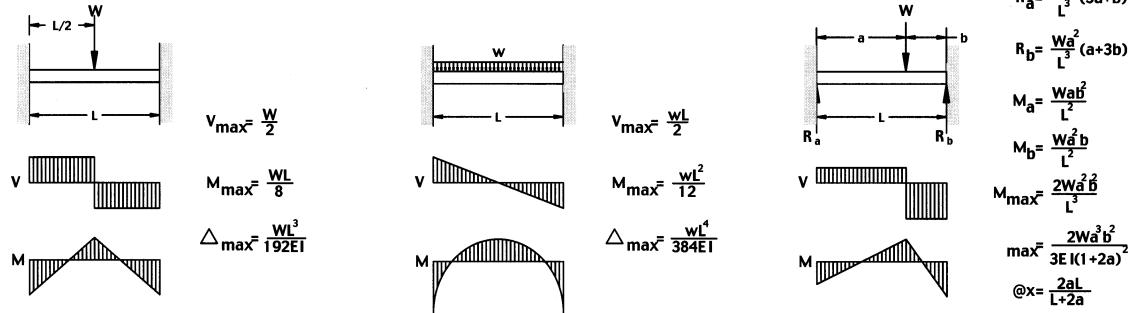
### SIMPLE BEAMS



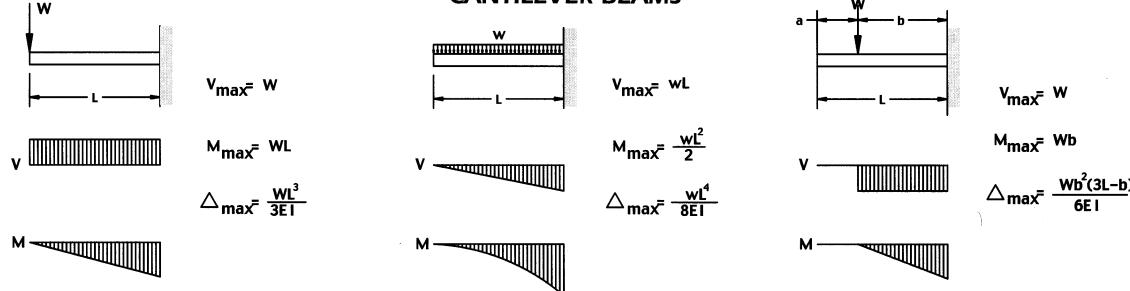
### BEAM FIXED AT ONE END, SUPPORTED AT OTHER



### BEAM FIXED AT BOTH ENDS



### CANTILEVER BEAMS



R- Reaction  
M-Moment  
W-Concentrated Load

w-Uniform Load (Weight/Unit Length)  
V-Shear  
L-Length

$\Delta$ -Deflection  
E-Modulus of Elasticity  
I-Moment of Inertia

# Technical Data

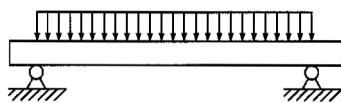
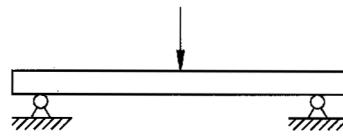
## Fundamentals of Design

### BEAMS

Beams are members which are subjected to loads at right angles (perpendicular) to their length. Most commonly, beams are horizontal and are therefore subjected to vertical loads usually related to gravity, i.e.- a shelf, platform or support for pipe or conduit. Loads cause beams to bend, called deflection. The ultimate consideration when designing a beam structure is whether or not it is strong enough. In other words, will it hold the anticipated load and provide a safety factor for unanticipated loads or other variations in conditions. A beam's ability to support a load is determined by its allowable bending moment and resulting amount of deflection. This load carrying ability is dependent on a number of factors: the amount of load, the type of load, the manner in which the beam is supported and the stiffness of the beam (a function of the beam's shape and the material from which it is made).

### Types of Beam Loading

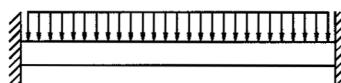
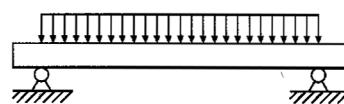
**Point Load** - A point load is concentrated at a single point along the beam's span (in reality, the load is concentrated over a very small length of the beam).



**Uniform Load** - A uniform load is spread evenly over the length of the beam from support to support.

### Types of Beam Support Conditions

**Simple Beam** - A simple beam is supported at both ends by non-fixed connections which prevent vertical movement at the support point, but allow the beam to rotate or flex into a normal deflected shape. The majority of bolted metal framing connections closely approximate these conditions. The loading data presented in this catalog is based on simple beam analysis unless otherwise noted.

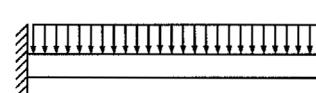
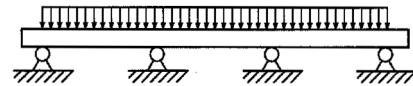


**Fixed Beam** - A fixed beam has rigid connections at each end that restrict the rotation of the beam and resist its deflection. The increased stiffness provided by this resistance to rotation provides a greater load capacity than that of an equivalent simple beam. A fixed-end

beam would result when a channel span is welded to rigid upright supports.

### Continuous Beam

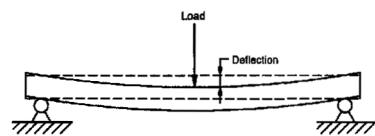
A continuous beam rests on more than two supports. The outside spans of a continuous beam will act like simple beams, while the interior spans will behave in a manner similar to fixed beams.



**Cantilever Beams** - A cantilever beam is supported by a fixed, rigid connection at one end and is totally unsupported at the opposite end. Shelf brackets and many of the strut brackets shown in this catalog are examples of cantilever beams.

### Loading and Deflection

All beams will deflect or "sag" when a load is applied. The magnitude of the deflection is dependent on the following factors:



- The amount of load plus the weight of the beam itself.
- The manner in which the load is distributed.
- The method by which the beam is supported.
- The cross sectional shape of the beam.
- The material from which the beam is made.

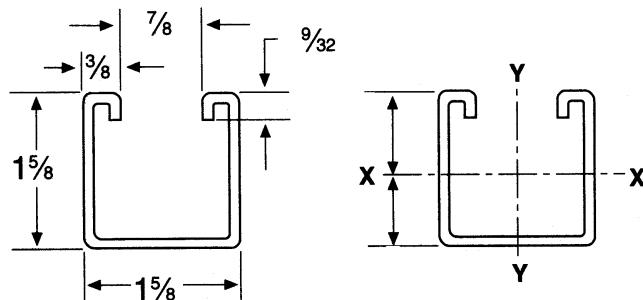
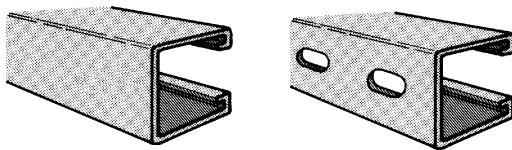
The stiffness of the beam derived from its cross sectional shape is defined by its "Moment of Inertia" or "I". The greater the "I" value of a beam, the greater its stiffness and the smaller its deflection. "I" values are given for both major axis (X-X and Y-Y). Increasing the height of the strut channel (Y-Y axis) is a straightforward way to increase its stiffness and lower its deflection.

The stiffness of a beam derived from its material composition is defined by its "Modulus of Elasticity" or "E". The greater the "E" value of the beam's material, the stiffer it is, and the smaller the deflection. A material's elasticity does not necessarily relate to its strength but rather its deflection under a given load.

The beam capacities in this catalog include the weight of the beam itself. Therefore, the strut beam weight must be subtracted from the loading capacities given to provide the net beam capacity.

## 7000 & 7001

1-5/8 X 1-5/8  
12 GAUGE STRUT  
SOLID & SLOTTED

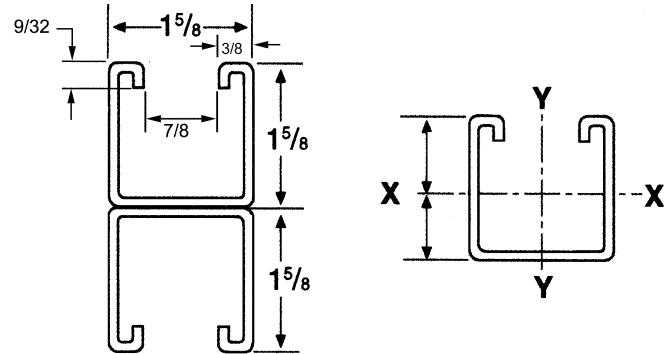
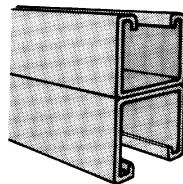


| Empire Part#      | Finish                                   | Standard Length | Weight Per foot<br>(Lbs.) |
|-------------------|--|-----------------|---------------------------|
| 7000<br>(SOLID)   | Plain<br>Pre-Galvanized<br>Green Painted | 10' or 20'      | 1.90                      |
| 7001<br>(SLOTTED) |  |                 | 1.85                      |

NOTE: Other materials, finishes and lengths are available on request

## 7000A & 7001A

1-5/8 X 1-5/8  
12 GAUGE BACK-TO-BACK  
STRUT  
SOLID & SLOTTED



| Empire Part#       | Finish                                   | Standard Length | Weight Per foot<br>(Lbs.) |
|--------------------|--|-----------------|---------------------------|
| 7000A<br>(SOLID)   | Plain<br>Pre-Galvanized<br>Green Painted | 10' or 20'      | 3.80                      |
| 7001A<br>(SLOTTED) |  |                 | 3.70                      |

NOTE: Other materials, finishes and lengths are available on request

## Properties of Section

| EMPIRE<br>FIGURE<br>NUMBER | Wt./Ft.<br>Lbs. | Area of<br>Section Sq. In. | X-X Axis          |                   |       | Y-Y Axis          |                   |       |
|----------------------------|-----------------|----------------------------|-------------------|-------------------|-------|-------------------|-------------------|-------|
|                            |                 |                            | I in <sup>4</sup> | S in <sup>3</sup> | r in. | I in <sup>4</sup> | S in <sup>3</sup> | r in. |
| 7000                       | 1.94            | .544                       | 0.180             | 0.195             | 05.75 | 0.233             | 0.287             | 0.655 |
| 7000A                      | 3.88            | 1.088                      | 0.896             | 0.570             | 0.908 | 0.466             | 0.574             | 0.655 |

I = Moment of Inertia

S = Section Modulus

r = Radius of Gyration

## Beam and Column Loads

| SPAN OR<br>COLUMN<br>(IN) | EMPIRE<br>FIGURE<br>NUMBER | MAX LOAD<br>OF COLUMN<br>LOADED<br>@ C.G.<br>(LBS) | STATIC BEAM LOAD (X-X AXIS)                        |                                    |                                     |                                     |
|---------------------------|----------------------------|--|--|------------------------------------|-------------------------------------|-------------------------------------|
|                           |                            |  | ALLOWABLE<br>UNIFORM LOAD<br>@ 25,000 PSI<br>(LBS) | DEFLECTION<br>@ 25,000 PSI<br>(IN) | UNIFORM<br>LOAD<br>@ L/240<br>(LBS) | UNIFORM<br>LOAD<br>@ L/360<br>(LBS) |
| 12                        | 7000                       | 7,109  | 3,249  | 0.014                              | **                                  | **                                  |
|                           | 7000A                      | 14,862   | 2,610  | 0.008                              | **                                  | **                                  |
| 18                        | 7000                       | 6,549  | 2,166  | 0.031                              | **                                  | **                                  |
|                           | 7000A                      | 14,402   | 2,610 ***  | 0.018                              | **                                  | **                                  |
| 24                        | 7000                       | 5,938  | 1,625  | 0.055                              | **                                  | **                                  |
|                           | 7000A                      | 13,919   | 2,610 ***  | 0.032                              | **                                  | **                                  |
| 30                        | 7000                       | 5,337  | 1,300  | 0.086                              | **                                  | 1,257                               |
|                           | 7000A                      | 13,473   | 2,610 ***  | 0.050                              | **                                  | **                                  |
| 36                        | 7000                       | 4,771  | 1,083  | 0.124                              | **                                  | 873                                 |
|                           | 7000A                      | 13,090   | 2,610 ***  | 0.072                              | **                                  | **                                  |
| 42                        | 7000                       | 4,242  | 928  | 0.169                              | **                                  | 641                                 |
|                           | 7000A                      | 12,771   | 2610 ***   | 0.099                              | **                                  | **                                  |
| 48                        | 7000                       | 3,745  | 812  | 0.220                              | 737                                 | 491                                 |
|                           | 7000A                      | 12,511   | 2,374  | 0.129                              | **                                  | **                                  |
| 60                        | 7000                       | 3,012  | 650  | 0.344                              | 471                                 | 314                                 |
|                           | 7000A                      | 11,685   | 1,899  | 0.202                              | **                                  | 1,566                               |
| 72                        | 7000                       | 2,514  | 542  | 0.496                              | 327                                 | 218                                 |
|                           | 7000A                      | 10,078   | 1,582  | 0.291                              | **                                  | 1,087                               |
| 84                        | 7000                       | 2,136  | 464  | 0.675                              | 240                                 | 160                                 |
|                           | 7000A                      | 8,180  | 1,356  | 0.396                              | 1,199                               | 799                                 |
| 96                        | 7000                       | 1,834  | 406  | 0.882                              | 184                                 | 123                                 |
|                           | 7000A                      | 6,291  | 1,187  | 0.517                              | 917                                 | 611                                 |
| 108                       | 7000                       | 1,585  | 361  | 1.116                              | 145                                 | 97                                  |
|                           | 7000A                      | 4,971  | 1,055  | 0.655                              | 725                                 | 483                                 |
| 120                       | 7000                       | *  | 325  | 1.378                              | 117                                 | 78                                  |
|                           | 7000A                      | 4,026  | 949  | 0.808                              | 587                                 | 391                                 |
| 180                       | 7000                       | *  | 217  | 3.099                              | 52                                  | 35                                  |
|                           | 7000A                      | *  | 633  | 1.819                              | 261                                 | 174                                 |
| 240                       | 7000                       | *  | 163  | 5.510                              | 29                                  | 19                                  |
|                           | 7000A                      | *  | 474  | 3.233                              | 147                                 | 98                                  |

### NOTES

\* Not recommended - KL/r exceeds 200

\*\* For these loads, the uniform beam capacity is lower than the L/240 or L/360 beam capacity and is therefore the governing restraint

\*\*\* Load limited by spotweld shear

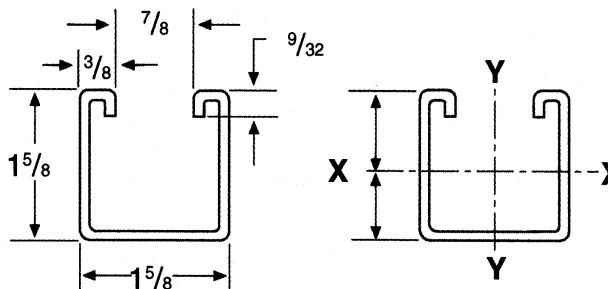
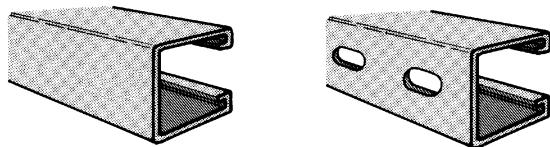
1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.

2. Allowable beam loads are based on a uniform loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

3. **The above chart shows beam capacities for strut without holes.** For strut with holes, multiply the following: 7/8" diameter Knockout by 82%, Round Hole 3/4" by 85% and Round Hole 9/16" by 88%, Slotted 9/16" x 1-1/8" by 88%, 13/32" x 3" by 90%.

# 7100 & 7101

**1-5/8 X 1-5/8  
14 GAUGE STRUT  
SOLID & SLOTTED**



| Empire Part#      | Finish                  | Standard Length | Weight Per foot<br>(Lbs.) |
|-------------------|-------------------------|-----------------|---------------------------|
| 7100<br>(SOLID)   | Plain<br>Pre-Galvanized | 10' or 20'      | 1.40                      |
| 7101<br>(SLOTTED) | Green Painted           |                 | 1.36                      |

**NOTE:** Other materials, finishes and lengths are available on request

## Properties of Section

| EMPIRE<br>FIGURE<br>NUMBER | Wt./Ft.<br>Lbs. | Area of<br>Section Sq. In. | X-X Axis          |                   |       | Y-Y Axis          |                   |       |
|----------------------------|-----------------|----------------------------|-------------------|-------------------|-------|-------------------|-------------------|-------|
|                            |                 |                            | I in <sup>4</sup> | S in <sup>3</sup> | r in. | I in <sup>4</sup> | S in <sup>3</sup> | r in. |
| 7100                       | 1.45            | .407                       | 0.143             | 0.158             | 0.593 | 0.179             | 0.221             | 0.664 |
|                            |                 |                            |                   |                   |       |                   |                   |       |

I = Moment of Inertia

S = Section Modulus

r = Radius of Gyration

## Beam and Column Loads

| SPAN OR<br>COLUMN<br>(IN) | EMPIRE<br>FIGURE<br>NUMBER | MAX LOAD<br>OF COLUMN<br>LOADED<br>@ C.G.<br>(LBS) | STATIC BEAM LOAD (X-X AXIS)                        |                                    |                                     |                                     |
|---------------------------|----------------------------|--|--|------------------------------------|-------------------------------------|-------------------------------------|
|                           |                            |  | ALLOWABLE<br>UNIFORM LOAD<br>@ 25,000 PSI<br>(LBS) | DEFLECTION<br>@ 25,000 PSI<br>(IN) | UNIFORM<br>LOAD<br>@ L/240<br>(LBS) | UNIFORM<br>LOAD<br>@ L/360<br>(LBS) |
| 12                        | 7100                       | 5,548  | 2,631  | 0.014                              | **                                  | **                                  |
| 18                        | 7100                       | 5,066  | 1,754  | 0.032                              | **                                  | **                                  |
| 24                        | 7100                       | 4,473  | 1,316  | 0.056                              | **                                  | **                                  |
| 30                        | 7100                       | 3,817  | 1,052  | 0.088                              | **                                  | **                                  |
| 36                        | 7100                       | 3,141  | 877  | 0.126                              | **                                  | 695                                 |
| 42                        | 7100                       | 2,546  | 752  | 0.172                              | **                                  | 511                                 |
| 48                        | 7100                       | 2,148  | 658  | 0.224                              | 587                                 | 391                                 |
| 60                        | 7100                       | 1,659  | 526  | 0.350                              | 376                                 | 250                                 |
| 72                        | 7100                       | 1,370  | 439  | 0.504                              | 261                                 | 174                                 |
| 84                        | 7100                       | 1,174  | 376  | 0.687                              | 192                                 | 128                                 |
| 96                        | 7100                       | 1,028  | 329  | 0.897                              | 147                                 | 98                                  |
| 108                       | 7100                       | 911  | 292  | 1.135                              | 116                                 | 77                                  |
| 120                       | 7100                       | *  | 263  | 1,140                              | 94                                  | 63                                  |
| 180                       | 7100                       | *  | 175  | 3.153                              | 42                                  | 28                                  |
| 240                       | 7100                       | *  | 132  | 5.605                              | 23                                  | 16                                  |

### NOTES

\* Not recommended - KL/r exceeds 200

\*\* For these loads, the uniform beam capacity is lower than the L/240 or L/360 beam capacity and is therefore the governing restraint

\*\*\* Load limited by spotweld shear

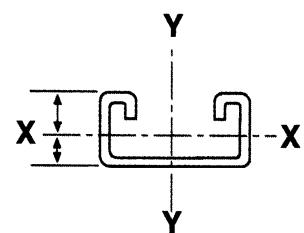
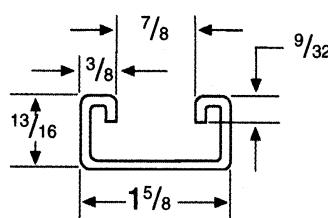
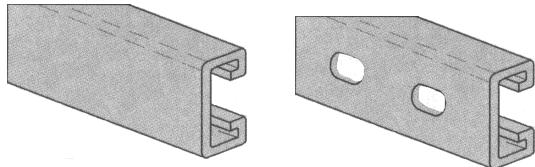
1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.

2. Allowable beam loads are based on a uniform loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

3. **The above chart shows beam capacities for strut without holes.** For strut with holes, multiply the following: 7/8" diameter Knockout by 82%, Round Hole 3/4" by 85% and Round Hole 9/16" by 88%, Slotted 9/16" x 1-1/8" by 88% and Slotted 13/32" x 3" by 90%.

## 7200 & 7201

13/16" X 1-5/8  
14 GAUGE STRUT  
SOLID & SLOTTED



| Empire Part#      | Finish                  | Standard Length | Weight Per foot<br>(Lbs.) |
|-------------------|-------------------------|-----------------|---------------------------|
| 7200<br>(SOLID)   | Plain<br>Pre-Galvanized | 10' or 20'      | .97                       |
| 7201<br>(SLOTTED) | Green Painted           |                 | .87                       |

NOTE: Other materials, finishes and lengths are available on request

## Properties of Section

| EMPIRE<br>FIGURE<br>NUMBER | Wt./Ft.<br>Lbs. | Area of<br>Section Sq. In. | X-X Axis          |                   |       | Y-Y Axis          |                   |       |
|----------------------------|-----------------|----------------------------|-------------------|-------------------|-------|-------------------|-------------------|-------|
|                            |                 |                            | I in <sup>4</sup> | S in <sup>3</sup> | r in. | I in <sup>4</sup> | S in <sup>3</sup> | r in. |
| 7200                       | 1.03            | 0.286                      | 0.025             | 0.053             | 0.298 | 0.106             | 0.131             | 0.610 |
|                            |                 |                            |                   |                   |       |                   |                   |       |

I = Moment of Inertia

S = Section Modulus

r = Radius of Gyration

## Beam and Column Loads

| SPAN OR<br>COLUMN<br>(IN) | EMPIRE<br>FIGURE<br>NUMBER | MAX LOAD<br>OF COLUMN<br>LOADED<br>@ C.G.<br>(LBS) | STATIC BEAM LOAD (X-X AXIS)                        |                                    |                                     |                                     |
|---------------------------|----------------------------|--|--|------------------------------------|-------------------------------------|-------------------------------------|
|                           |                            |  | ALLOWABLE<br>UNIFORM LOAD<br>@ 25,000 PSI<br>(LBS) | DEFLECTION<br>@ 25,000 PSI<br>(IN) | UNIFORM<br>LOAD<br>@ L/240<br>(LBS) | UNIFORM<br>LOAD<br>@ L/360<br>(LBS) |
| 12                        | 7200                       | 3,598  | 887  | 0.027                              | **                                  | **                                  |
| 18                        | 7200                       | 3,340  | 591  | 0.060                              | **                                  | 493                                 |
| 24                        | 7200                       | 3,086  | 444  | 0.106                              | 416                                 | 277                                 |
| 30                        | 7200                       | 2,854  | 355  | 0.166                              | 266                                 | 177                                 |
| 36                        | 7200                       | 2,654  | 296  | 0.240                              | 185                                 | 123                                 |
| 42                        | 7200                       | 2,449  | 254  | 0.327                              | 136                                 | 91                                  |
| 48                        | 7200                       | 2,259  | 222  | 0.427                              | 104                                 | 69                                  |
| 60                        | 7200                       | *  | 177  | 0.667                              | 66                                  | 14                                  |
| 72                        | 7200                       | *  | 148  | 0.960                              | 46                                  | 31                                  |
| 84                        | 7200                       | *  | 127  | 1.037                              | 34                                  | 23                                  |
| 96                        | 7200                       | *  | 111  | 1.707                              | 26                                  | 17                                  |
| 108                       | 7200                       | *  | 99   | 2.160                              | 21                                  | 14                                  |
| 120                       | 7200                       | *  | 89   | 2.668                              | 17                                  | 11                                  |
| 180                       | 7200                       | *  | 59   | 6.003                              | 7                                   | 5                                   |
| 240                       | 7200                       | *  | 44   | 10.672                             | 4                                   | 3                                   |

### NOTES

\* Not recommended - KL/r exceeds 200

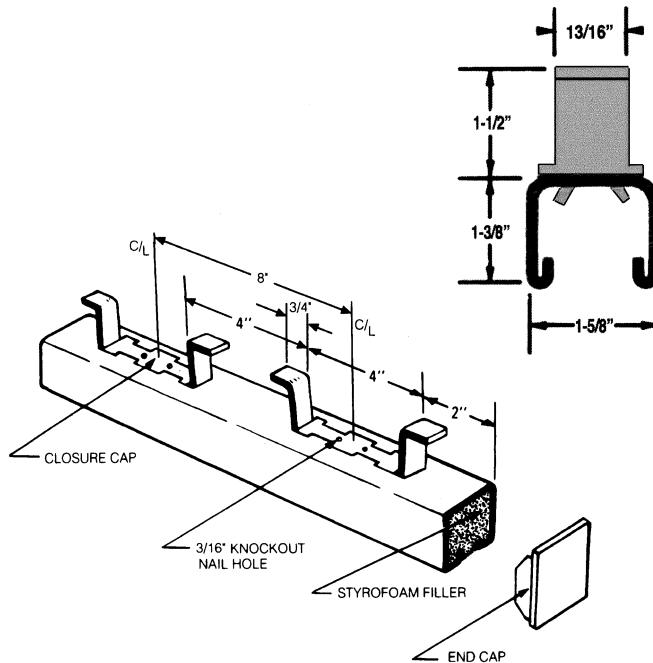
\*\* For these loads, the uniform beam capacity is lower than the L/240 or L/360 beam capacity and is therefore the governing restraint

\*\*\* Load limited by spotweld shear

1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.

2. Allowable beam loads are based on a uniform loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

3. **The above chart shows beam capacities for strut without holes.** For strut with holes, multiply the following: 7/8" diameter Knockout by 82%, Round Hole 3/4" by 85% and Round Hole 9/16" by 88%, Slotted 9/16" x 1-1/8" by 88% and Slotted 13/32" x 3" by 90%.

**7225****1-3/8" x 1-5/8"****12 GAUGE  
CONTINUOUS  
CONCRETE INSERT**

| Empire Part# | Finish                  | Standard Length                       |
|--------------|-------------------------|---------------------------------------|
| 7225         | Plain<br>Pre-Galvanized | 10' or 20'<br>Other lengths available |

**FEATURES:**

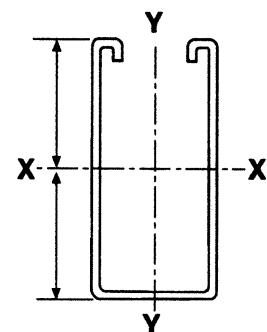
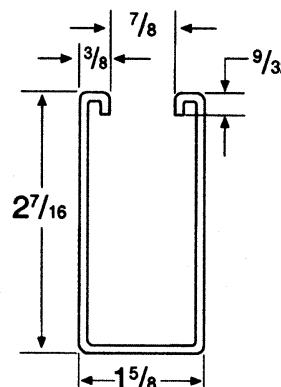
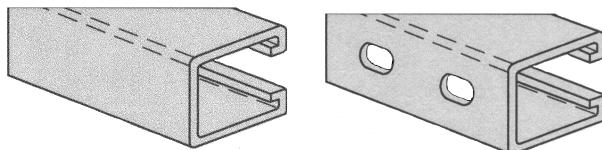
- Loading data was calculated in a concrete mixture which was proportioned so that the compression strength of the concrete was 2,500 to 3,000 pounds per square inch and that the load is dependent on the surrounding concrete.
- Tests were performed with a safety factor of 3, and in accordance with the MFMA Specifications.
- Concrete inserts are supplied with an end cap and either a styrofoam filler or plastic strip installed in the insert channel to prevent concrete seepage.
- Inserts should be secured to forms at 16" intervals.
- When ordering, please indicate finish and either foam filler, or plastic closure.

| EMPIRE FIGURE NUMBER | Length/Inch | Weight C. Pcs. | Max. Allowable Load Per Section |
|----------------------|-------------|----------------|---------------------------------|
| 7225                 | 3           | 87             | 500                             |
| 7225                 | 4           | 103            | 800                             |
| 7225                 | 6           | 134            | 1000                            |
| 7225                 | 8           | 206            | 1200                            |
| 7225                 | 12          | 188            | 2000                            |
| 7225                 | 18          | 282            | 2000                            |
| 7225                 | 24          | 376            | 2000                            |
| 7225                 | 30          | 470            | 2000                            |
| 7225                 | 36          | 564            | 2000                            |
| 7225                 | 48          | 752            | 2000                            |
| 7225                 | 60          | 940            | 2000                            |
| 7225                 | 72          | 1128           | 2000                            |
| 7225                 | 84          | 1316           | 2000                            |
| 7225                 | 96          | 1504           | 2000                            |
| 7225                 | 108         | 1692           | 2000                            |
| 7225                 | 120         | 1880           | 2000                            |
| 7225                 | 240         | 3760           | 2000                            |

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## 7230 & 7231

**2-7/16" x 1-5/8"**  
**12 GAUGE STRUT**  
**SOLID & SLOTTED**

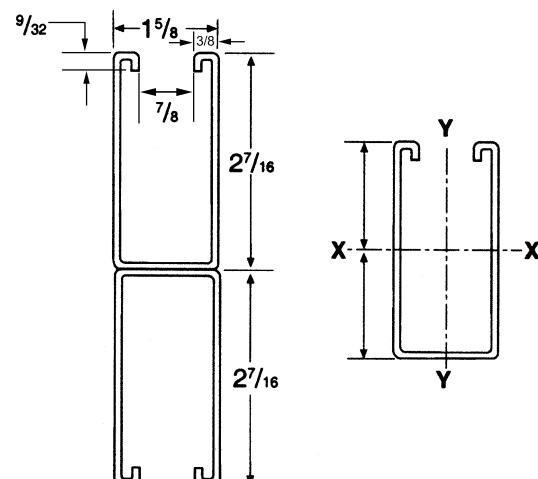
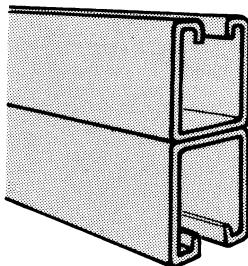


| Empire Part#      | Finish                                   | Standard Length | Weight Per foot<br>(Lbs.) |
|-------------------|--|-----------------|---------------------------|
| 7230<br>(SOLID)   | Plain<br>Pre-Galvanized<br>Green Painted | 10' or 20'      | 2.59                      |
| 7231<br>(SLOTTED) |  |                 | 2.52                      |

NOTE: Other materials, finishes and lengths are available on request

## 7241 & 7240

**2-7/16" x 1-5/8"**  
**12 GAUGE BACK-TO-BACK**  
**STRUT**  
**SOLID & SLOTTED**



| Empire Part#      | Finish                                   | Standard Length | Weight Per foot<br>(Lbs.) |
|-------------------|--|-----------------|---------------------------|
| 7241<br>(SOLID)   | Plain<br>Pre-Galvanized<br>Green Painted | 10' or 20'      | 5.04                      |
| 7240<br>(SLOTTED) |  |                 | 5.18                      |

NOTE: Other materials, finishes and lengths are available on request

## Properties of Section

| EMPIRE<br>FIGURE<br>NUMBER | Wt./Ft.<br>Lbs. | Area of<br>Section Sq. In. | X-X Axis          |                   |       | Y-Y Axis          |                   |       |
|----------------------------|-----------------|----------------------------|-------------------|-------------------|-------|-------------------|-------------------|-------|
|                            |                 |                            | I in <sup>4</sup> | S in <sup>3</sup> | r in. | I in <sup>4</sup> | S in <sup>3</sup> | r in. |
| 7230                       | 2.54            | 0.714                      | 0.509             | 0.378             | 0.844 | 0.331             | 0.408             | 0.681 |
| 7240                       | 5.08            | 1.142                      | 2.721             | 1.141             | 1.381 | 0.663             | 0.815             | 0.681 |

I = Moment of Inertia

S = Section Modulus

r = Radius of Gyration

## Beam and Column Loads

| SPAN OR<br>COLUMN<br>(IN) | EMPIRE<br>FIGURE<br>NUMBER | MAX LOAD<br>OF COLUMN<br>LOADED<br>@ C.G.<br>(LBS) | STATIC BEAM LOAD (X-X AXIS)                        |                                    |                                     |                                     |
|---------------------------|----------------------------|--|--|------------------------------------|-------------------------------------|-------------------------------------|
|                           |                            |  | ALLOWABLE<br>UNIFORM LOAD<br>@ 25,000 PSI<br>(LBS) | DEFLECTION<br>@ 25,000 PSI<br>(IN) | UNIFORM<br>LOAD<br>@ L/240<br>(LBS) | UNIFORM<br>LOAD<br>@ L/360<br>(LBS) |
| 12                        | 7230                       | 9,774  | 6,305  | 0.009                              | **                                  | **                                  |
|                           | 7240                       | 20,586   | 3,880 ***  | 0.005                              | **                                  | **                                  |
| 18                        | 7230                       | 8,861  | 4,203  | 0.021                              | **                                  | **                                  |
|                           | 7240                       | 19,931   | 3,880 ***  | 0.012                              | **                                  | **                                  |
| 24                        | 7230                       | 7,744  | 3,125  | 0.038                              | **                                  | **                                  |
|                           | 7240                       | 19,144   | 3,880 ***  | 0.021                              | **                                  | **                                  |
| 30                        | 7230                       | 6,524  | 2,522  | 0.059                              | **                                  | **                                  |
|                           | 7240                       | 18,304   | 3,880 ***  | 0.033                              | **                                  | **                                  |
| 36                        | 7230                       | 5,275  | 2,102  | 0.085                              | **                                  | **                                  |
|                           | 7240                       | 17,474   | 3,880 ***  | 0.048                              | **                                  | **                                  |
| 42                        | 7230                       | 4,284  | 1,801  | 0.116                              | **                                  | **                                  |
|                           | 7240                       | 16,693   | 3,880 ***  | 0.065                              | **                                  | **                                  |
| 48                        | 7230                       | 3,629  | 1,576  | 0.151                              | **                                  | 1,390                               |
|                           | 7240                       | 15,981   | 3,880 ***  | 0.085                              | **                                  | **                                  |
| 60                        | 7230                       | 2,824  | 1,261  | 0.236                              | **                                  | 890                                 |
|                           | 7240                       | 14,790   | 3,803  | 0.133                              | **                                  | **                                  |
| 72                        | 7230                       | 2,346  | 1,051  | 0.340                              | 927                                 | 618                                 |
|                           | 7240                       | 13,881   | 3,169  | 0.192                              | **                                  | **                                  |
| 84                        | 7230                       | 2,021  | 901  | 0.463                              | 681                                 | 454                                 |
|                           | 7240                       | 12,054   | 2,716  | 0.261                              | **                                  | 2,427                               |
| 96                        | 7230                       | 1,778  | 788  | 0.605                              | 521                                 | 347                                 |
|                           | 7240                       | 9,409  | 2,377  | 0.341                              | **                                  | 1,858                               |
| 108                       | 7230                       | 1,584  | 701  | 0.765                              | 412                                 | 275                                 |
|                           | 7240                       | 7,434  | 2,113  | 0.431                              | **                                  | 1,468                               |
| 120                       | 7230                       | 1,422  | 630  | 0.945                              | 334                                 | 222                                 |
|                           | 7240                       | 6,022  | 1,901  | 0.532                              | 1,784                               | 1,189                               |
| 180                       | 7230                       | *  | 420  | 2.126                              | 148                                 | 99                                  |
|                           | 7240                       | *  | 1,268  | 1.199                              | 793                                 | 529                                 |
| 240                       | 7230                       | *  | 315  | 3.780                              | 83                                  | 56                                  |
|                           | 7240                       | *  | 951  | 2.131                              | 446                                 | 297                                 |

### NOTES

\* Not recommended - KL/r exceeds 200

\*\* For these loads, the uniform beam capacity is lower than the L/240 or L/360 beam capacity and is therefore the governing restraint

\*\*\* Load limited by spotweld shear

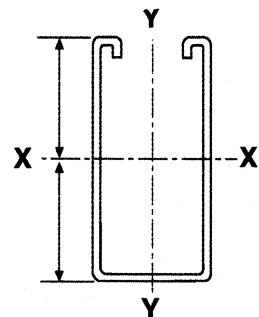
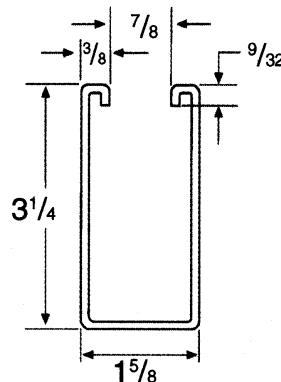
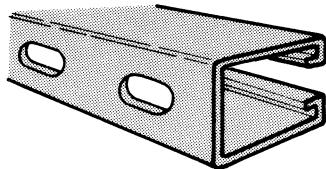
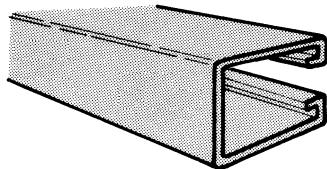
1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.

2. Allowable beam loads are based on a uniform loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

3. **The above chart shows beam capacities for strut without holes.** For strut with holes, multiply the following: 7/8" diameter Knockout by 82%, Round Hole 3/4" by 85% and Round Hole 9/16" by 88%, Slotted 9/16" x 1-1/8" by 88% and Slotted 13/32" x 3" by 90%.

## 7250 & 7251

**3-1/4" X 1-5/8"**  
**12 GAUGE STRUT**  
**SOLID & SLOTTED**



| Empire Part#      | Finish                                   | Standard Length | Weight Per foot (Lbs.) |
|-------------------|--|-----------------|------------------------|
| 7250<br>(SOLID)   | Plain<br>Pre-Galvanized<br>Green Painted | 10' or 20'      | 3.13                   |
| 7251<br>(SLOTTED) |  |                 | 3.08                   |

**NOTE:** Other materials, finishes and lengths are available on request

## Properties of Section

| EMPIRE<br>FIGURE<br>NUMBER | Wt./Ft.<br>Lbs. | Area of<br>Section Sq. In. | X-X Axis          |                   |       | Y-Y Axis          |                   |       |
|----------------------------|-----------------|----------------------------|-------------------|-------------------|-------|-------------------|-------------------|-------|
|                            |                 |                            | I in <sup>4</sup> | S in <sup>3</sup> | r in. | I in <sup>4</sup> | S in <sup>3</sup> | r in. |
| 7250                       | 3.13            | .844                       | 1.073             | 0.609             | 1.102 | 0.429             | 0.529             | 0.697 |
|                            |                 |                            |                   |                   |       |                   |                   |       |

I = Moment of Inertia

S = Section Modulus

r = Radius of Gyration

## Beam and Column Loads

| SPAN OR<br>COLUMN<br>(IN) | EMPIRE<br>FIGURE<br>NUMBER | MAX LOAD<br>OF COLUMN<br>LOADED<br>@ C.G.<br>(LBS) | STATIC BEAM LOAD (X-X AXIS)                        |                                    |                                     |                                     |
|---------------------------|----------------------------|--|--|------------------------------------|-------------------------------------|-------------------------------------|
|                           |                            |  | ALLOWABLE<br>UNIFORM LOAD<br>@ 25,000 PSI<br>(LBS) | DEFLECTION<br>@ 25,000 PSI<br>(IN) | UNIFORM<br>LOAD<br>@ L/240<br>(LBS) | UNIFORM<br>LOAD<br>@ L/360<br>(LBS) |
| 12                        | 7250                       | 12,428   | 10,155   | 0.007                              | **                                  | **                                  |
| 18                        | 7250                       | 11,161   | 6,770  | 0.016                              | **                                  | **                                  |
| 24                        | 7250                       | 9,531  | 5,077  | 0.029                              | **                                  | **                                  |
| 30                        | 7250                       | 7,642  | 4,062  | 0.045                              | **                                  | **                                  |
| 36                        | 7250                       | 5,767  | 3,385  | 0.065                              | **                                  | **                                  |
| 42                        | 7250                       | 4,550  | 2,901  | 0.088                              | **                                  | **                                  |
| 48                        | 7250                       | 3,754  | 2,539  | .115                               | **                                  | **                                  |
| 60                        | 7250                       | 2,830  | 2,031  | 0.180                              | **                                  | 1,876                               |
| 72                        | 7250                       | 2,268  | 1,692  | 0.260                              | **                                  | 1,303                               |
| 84                        | 7250                       | 1,972  | 1,451  | 0.354                              | 1,436                               | 957                                 |
| 96                        | 7250                       | 1,688  | 1,269  | 0.462                              | 1,099                               | 733                                 |
| 108                       | 7250                       | 1,509  | 1,128  | 0.585                              | 869                                 | 579                                 |
| 120                       | 7250                       | 1,366  | 1,015  | 0.722                              | 703                                 | 469                                 |
| 180                       | 7250                       | *  | 667  | 1.624                              | 313                                 | 208                                 |
| 240                       | 7250                       | *  | 508  | 2.887                              | 176                                 | 117                                 |

### NOTES

\* Not recommended - KL/r exceeds 200

\*\* For these loads, the uniform beam capacity is lower than the L/240 or L/360 beam capacity and is therefore the governing restraint

\*\*\* Load limited by spotweld shear

1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.

2. Allowable beam loads are based on a uniform loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

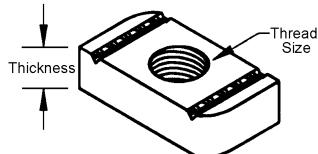
3. **The above chart shows beam capacities for strut without holes.** For strut with holes, multiply the following: 7/8" diameter Knockout by 82%, Round Hole 3/4" by 85% and Round Hole 9/16" by 88%, Slotted 9/16" x 1-1/8" by 88% and Slotted 13/32" x 3" by 90%.

# 8000

## STRUT NUT WITHOUT SPRING

**Material:**

Electro-galvanized carbon steel.  
Also available in stainless steel.



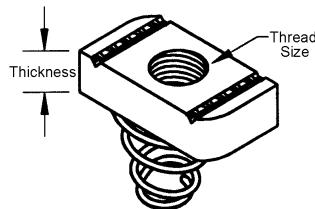
| Rod (Thread) Size | Thickness | Weight Each (lbs) |
|-------------------|-----------|-------------------|
| #8-32             | 1/4"      | 0.06              |
| #10-24            | 1/4"      | 0.06              |
| #10-32            | 1/4"      | 0.06              |
| 1/4"              | 1/4"      | 0.06              |
| 5/16"             | 3/8"      | 0.09              |
| 3/8"              | 3/8"      | 0.09              |
| 7/16"             | 3/8"      | 0.09              |
| 1/2"              | 3/8"      | 0.09              |
| 5/8"              | 1/2"      | 0.13              |
| 3/4"              | 1/2"      | 0.13              |
| 7/8"              | 1/2"      | 0.13              |

# 8050

## STRUT NUT WITH SHORT SPRING

**Material:**

Electro-galvanized carbon steel.  
Also available in stainless steel.



| Rod (Thread) Size | Thickness | Weight Each (lbs) |
|-------------------|-----------|-------------------|
| #8-32             | 1/4"      | 0.07              |
| #10-24            | 1/4"      | 0.07              |
| #10-32            | 1/4"      | 0.07              |
| 1/4"              | 1/4"      | 0.07              |
| 5/16"             | 3/8"      | 0.06              |
| 3/8"              | 3/8"      | 0.09              |
| 7/16"             | 3/8"      | 0.09              |
| 1/2"              | 3/8"      | 0.09              |
| 5/8"              | 1/2"      | 0.10              |

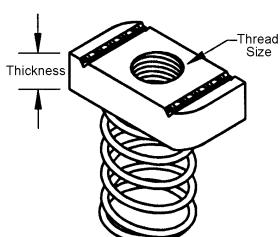
# 8100

## STRUT NUT WITH REGULAR SPRING

**Material:**

Electro-galvanized carbon steel.  
Also available in stainless steel. (8100SX)

**Note:** To be used on 1-3/8" and 1-5/8" strut.



| Rod (Thread) Size | Thickness | Weight Each (lbs) |
|-------------------|-----------|-------------------|
| #8-32             | 1/4"      | 0.075             |
| #10-24            | 1/4"      | 0.075             |
| #10-32            | 1/4"      | 0.075             |
| 1/4"              | 1/4"      | 0.070             |
| 5/16"             | 3/8"      | 0.100             |
| 3/8"              | 3/8"      | 0.100             |
| 7/16"             | 3/8"      | 0.100             |
| 1/2"              | 3/8"      | 0.120             |
| 5/8"              | 1/2"      | 0.150             |
| 3/4"              | 1/2"      | 0.150             |
| 7/8"              | 1/2"      | 0.150             |

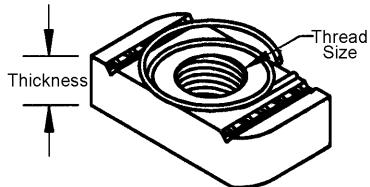
# 8150

## TOP SPRING STRUT NUT

**Material:**

Electro-galvanized carbon steel.

**Note:** Not to be used on 13/16" or 1" strut.



| Rod (Thread) Size | Thickness | Weight Each (lbs) |
|-------------------|-----------|-------------------|
| #8-32             | 1/4"      | 0.07              |
| #10-24            | 1/4"      | 0.07              |
| #10-32            | 1/4"      | 0.07              |
| 1/4"              | 1/4"      | 0.07              |
| 5/16"             | 3/8"      | 0.10              |
| 3/8"              | 3/8"      | 0.10              |
| 1/2"              | 3/8"      | 0.12              |

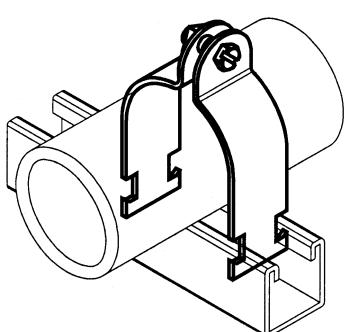
# 8200 & 8200SS

## RIGID IPS STRUT CLAMP ASSEMBLED

**Material:**

8200-Electro-galvanized carbon steel

8200SS-304 stainless steel



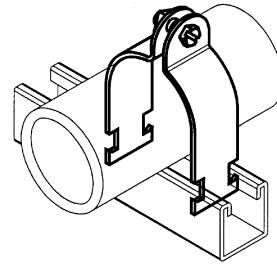
| Pipe Size | Pipe OD | Max Rec Load (lbs) | Weight Each (lbs) |
|-----------|---------|--------------------|-------------------|
| 3/8"      | 0.675   | 400                | 0.10              |
| 1/2"      | 0.840   | 400                | 0.10              |
| 3/4"      | 1.050   | 600                | 0.15              |
| 1"        | 1.315   | 600                | 0.17              |
| 1-1/4"    | 1.660   | 600                | 0.18              |
| 1-1/2"    | 1.900   | 800                | 0.29              |
| 2"        | 2.375   | 800                | 0.34              |
| 2-1/2"    | 2.875   | 800                | 0.40              |
| 3"        | 3.500   | 800                | 0.47              |
| 3-1/2"    | 4.000   | 1000               | 0.62              |
| 4"        | 4.500   | 1000               | 0.67              |
| 5"        | 5.563   | 1000               | 0.80              |
| 6"        | 6.625   | 1000               | 1.02              |
| 8"        | 8.625   | 1000               | 1.30              |
| 10"       | 10.750  | 1000               | 1.43              |
| 12"       | 12.750  | 1000               | 1.75              |

**8250**

## **OD Tubing Strut Clamp Assembled**

**Material:**

Electro-galvanized carbon steel. Also available in 304 stainless steel.



| Pipe Size | Max Rec Load (lbs) | Weight Each (lbs) | Pipe Size | Max Rec Load (lbs) | Weight Each (lbs) |
|-----------|--------------------|-------------------|-----------|--------------------|-------------------|
| 1/4"      | 400                | 0.09              | 3-3/4"    | 1000               | 0.51              |
| 3/8"      | 400                | 0.09              | 3-7/8"    | 1000               | 0.52              |
| 1/2"      | 400                | 0.07              | 4"        | 1000               | 0.52              |
| 5/8"      | 400                | 0.09              | 4-1/8"    | 1000               | 0.53              |
| 3/4"      | 400                | 0.13              | 4-1/4"    | 1000               | 0.54              |
| 7/8"      | 400                | 0.14              | 4-3/8"    | 1000               | 0.55              |
| 1"        | 600                | 0.15              | 4-1/2"    | 1000               | 0.55              |
| 1-1/8"    | 600                | 0.16              | 4-5/8"    | 1000               | 0.57              |
| 1-1/4"    | 600                | 0.18              | 4-3/4"    | 1000               | 0.58              |
| 1-3/8"    | 600                | 0.19              | 4-7/8"    | 1000               | 0.60              |
| 1-1/2"    | 600                | 0.20              | 5"        | 1000               | 0.62              |
| 1-5/8"    | 600                | 0.21              | 5-1/8"    | 1000               | 0.64              |
| 1-3/4"    | 800                | 0.22              | 5-1/4"    | 1000               | 0.66              |
| 1-7/8"    | 800                | 0.22              | 5-3/8"    | 1000               | 0.68              |
| 2"        | 800                | 0.23              | 5-1/2"    | 1000               | 0.70              |
| 2-1/8"    | 800                | 0.23              | 5-5/8"    | 1000               | 0.72              |
| 2-1/4"    | 800                | 0.25              | 5-3/4"    | 1000               | 0.74              |
| 2-3/8"    | 800                | 0.26              | 5-7/8"    | 1000               | 0.76              |
| 2-1/2"    | 800                | 0.38              | 6"        | 1000               | 0.79              |
| 2-5/8"    | 800                | 0.38              | 6-1/8"    | 1000               | 0.83              |
| 2-3/4"    | 800                | 0.39              | 6-1/4"    | 1000               | 0.87              |
| 2-7/8"    | 800                | 0.40              | 6-3/8"    | 1000               | 0.90              |
| 3"        | 800                | 0.42              | 6-1/2"    | 1000               | 0.95              |
| 3-1/8"    | 800                | 0.44              | 6-5/8"    | 1000               | 1.02              |
| 3-1/4"    | 800                | 0.46              | 6-3/4"    | 1000               | 1.05              |
| 3-3/8"    | 800                | 0.48              | 6-7/8"    | 1000               | 1.10              |
| 3-1/2"    | 800                | 0.50              | 7"        | 1000               | 1.16              |
| 3-5/8"    | 800                | 0.50              | 8-3/8"    | 1000               | 1.25              |

**USE THE FOLLOWING CLAMPS FOR NO-HUB CAST IRON SOIL PIPE**

| No-Hub Cast Iron Nominal Pipe Size | Use The Following Strut Clamp |
|------------------------------------|-------------------------------|
| 1-1/2"                             | 8200 - 1-1/2"                 |
| 2"                                 | 8200 - 2"                     |
| 3"                                 | 8250 - 3-3/8"                 |
| 4"                                 | 8250 - 4-3/8"                 |
| 5"                                 | 8250 - 5-3/8 "                |
| 6"                                 | 8250 - 6-3/8"                 |
| 8"                                 | 8250 - 8-3/8"                 |
| 10"-12"                            | CALL                          |

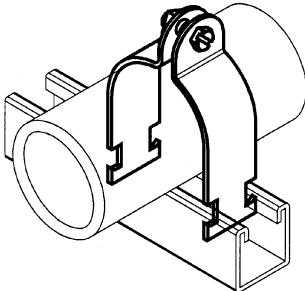
## 8300CT & 8300CTP

### COPPER TUBING STRUT PIPE CLAMP - ASSEMBLED EPOXY COATED COPPER-GARD (CT) and COPPER PLATED (CTP)

Copper-Gard  
epoxy products offer superior  
corrosion protection

**Material:**

Epoxy coated over electro-galvanized steel (CT).  
Copper plated carbon steel (CTP).



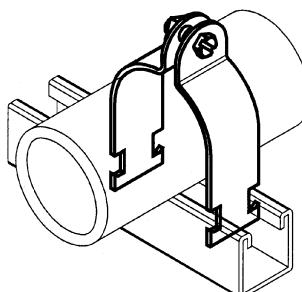
| Tube Size | Max Rec Load (lbs) | Weight Each (lbs) |
|-----------|--------------------|-------------------|
| 3/8"      | 400                | 0.09              |
| 1/2"      | 400                | 0.10              |
| 3/4"      | 400                | 0.12              |
| 1"        | 600                | 0.15              |
| 1-1/4"    | 600                | 0.17              |
| 1-1/2"    | 600                | 0.19              |
| 2"        | 800                | 0.32              |
| 2-1/2"    | 800                | 0.37              |
| 3"        | 800                | 0.43              |
| 3-1/2"    | 1000               | 0.56              |
| 4"        | 1000               | 0.62              |
| 5"        | 1000               | 0.75              |
| 6"        | 1000               | 0.96              |

## 8350

### UNIVERSAL PIPE STRUT CLAMP ASSEMBLED

**Material:**

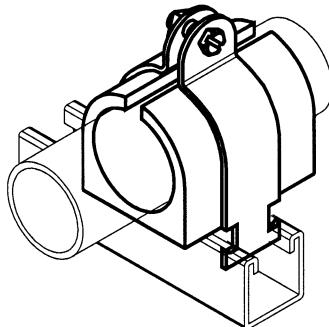
Electro-galvanized carbon steel.



| Pipe Size | OD SIZE RANGE | Max Rec Load (lbs) | Weight Each (lbs) |
|-----------|---------------|--------------------|-------------------|
| 3/8"      | .557 - .706   | 400                | 0.18              |
| 1/2"      | .701 - .875   | 400                | 0.20              |
| 3/4"      | .917 - 1.031  | 400                | 0.22              |
| 1"        | 1.125 - 1.375 | 400                | 0.24              |
| 1-1/4"    | 1.50 - 1.691  | 400                | 0.27              |
| 1-1/2"    | 1.735 - 1.931 | 600                | 0.30              |
| 2"        | 2.192 - 2.40  | 600                | 0.35              |

# 8500

## CUSHION STRUT CLAMP

**Material:**

Electro-galvanized steel with thermoplastic insulating liner.

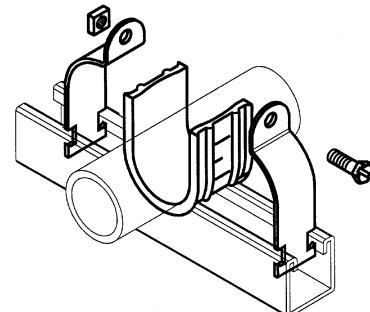
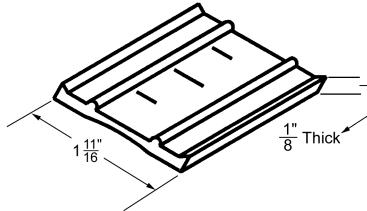
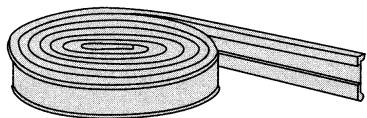
Also available in IPS sizes.

Also available in stainless steel.

| OD Size | Nom. Tube Size | Weight Each (lbs) |
|---------|----------------|-------------------|
| 1/4"    | 1/8"           | 0.110             |
| 3/8"    | 1/4"           | 0.110             |
| 1/2"    | 3/8"           | 0.110             |
| 5/8"    | 1/2"           | 0.120             |
| 3/4"    | 5/8"           | 0.130             |
| 7/8"    | 3/4"           | 0.200             |
| 1"      | 7/8"           | 0.210             |
| 1-1/8"  | 1"             | 0.275             |
| 1-1/4"  | 1-1/8"         | 0.292             |
| 1-3/8"  | 1-1/4"         | 0.310             |
| 1-1/2"  | 1-3/8"         | 0.354             |
| 1-5/8"  | 1-1/2"         | 0.400             |
| 1-3/4"  | 1-5/8"         | 0.413             |
| 1-7/8"  | 1-3/4"         | 0.425             |
| 2"      | 1-7/8"         | 0.454             |
| 2-1/8"  | 2"             | 0.483             |
| 2-3/8"  | 2-1/4"         | 0.600             |
| 2-5/8"  | 2-1/2"         | 0.610             |
| 3-1/8"  | 3"             | 0.650             |
| 4-1/8"  | 4"             | 0.900             |

# 8550

## CUSHION PIPE WRAP



**Material:** Elastomer (EPDM)

**Dimensions:** 1/8" thick x 1-11/16" wide.

**Weight:** 2.50 lbs per roll.

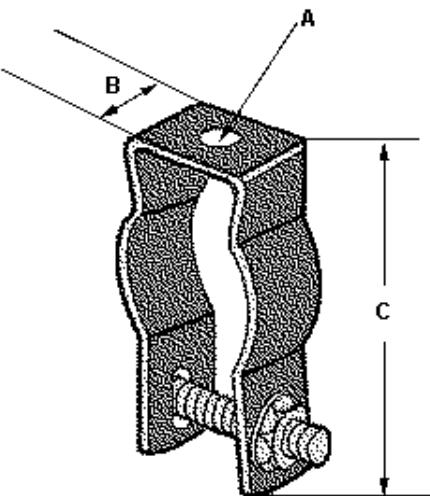
**Note:** This cushion wrap is designed for use with HVAC, refrigeration and hydraulic lines. Wrap can be cut to size for any pipe material and size. It provides protection from galvanic action between dissimilar metals, as well as absorbs sound and vibration between pipe and mounting materials. Service temperature -70° to +300° fahrenheit.

**8575**

**CONDUIT CLAMP**  
*with bolt & nut*

**Material:**

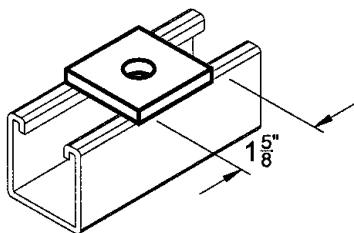
Electro-galvanized carbon steel.



| Size   | FITS RIGID &<br>PIPE SIZE | FITS EMT | A     | B      | C       | Weight Each<br>(lbs) |
|--------|---------------------------|----------|-------|--------|---------|----------------------|
| 1/2"   | 3/8" & 1/2"               | 1/2"     | 1/4"  | 3/4"   | 1-7/8"  | 0.062                |
| 3/4"   | 3/4"                      | 3/4"     | 1/4"  | 3/4"   | 2-1/8"  | 0.08                 |
| 1"     | 1"                        | 1"       | 1/4"  | 7/8"   | 2-9/16" | 0.10                 |
| 1-1/4" | 1-1/4"                    | 1-1/2"   | 1/4"  | 7/8"   | 3"      | 0.11                 |
| 1-1/2" | 1-1/2"                    | -        | 1/4"  | 1"     | 3-1/8"  | 0.12                 |
| 2"     | 2                         | 2"       | 5/16" | 1-1/4" | 3-7/8"  | 0.23                 |

**9001FF**

**SQUARE STRUT WASHER**  
**1-5/8" X 1-5/8"**



**Material:** 1/4"

**Finish:** Electro-Galvanized

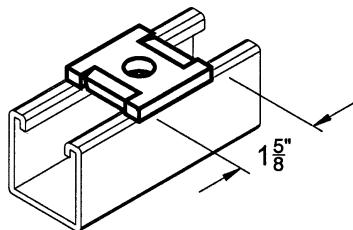
**Hole Dim:** 9/16"

**Rod size**      **Weight**

|      |     |
|------|-----|
| 1/4" | .18 |
| 3/8" | .18 |
| 1/2" | .17 |
| 5/8" | .16 |
| 3/4" | .16 |
| 7/8" | .15 |

**9002FF**

**SQUARE WASHER WITH**  
**GUIDES 1-5/8" X 1-5/8"**



**Material:** 1/4"

**Finish:** Electro-Galvanized

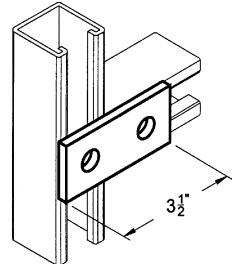
**Hole Dim:** 9/16"

**Rod size**      **Weight**

|      |     |
|------|-----|
| 1/4" | .18 |
| 3/8" | .18 |
| 1/2" | .17 |
| 5/8" | .16 |
| 3/4" | .16 |

**9003FF**

**2-HOLE SPLICE PLATE**  
**1-5/8" X 3-1/2"**



**Material:** 1/4"

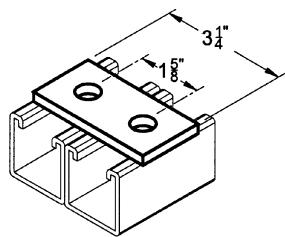
**Finish:** Electro-Galvanized

**Hole Dim:** 9/16"

**Wt. Each (lbs):** .37

**9004FF**

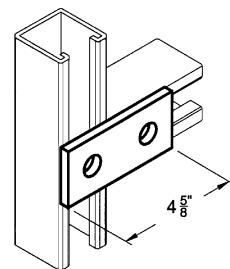
**2-HOLE SPLICE PLATE  
SIDE TO SIDE STRUT  
1-5/8" X 3-1/4"**



|                      |                    |
|----------------------|--------------------|
| <b>Material:</b>     | 1/4"               |
| <b>Finish:</b>       | Electro-Galvanized |
| <b>Hole Dim:</b>     | 9/16"              |
| <b>Wt. Each lbs:</b> | .34                |

**9005FF**

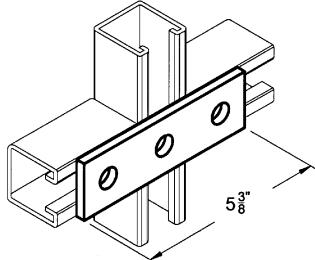
**2-HOLE SPLICE PLATE  
1-5/8" X 4-5/8"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .46                |

**9006FF**

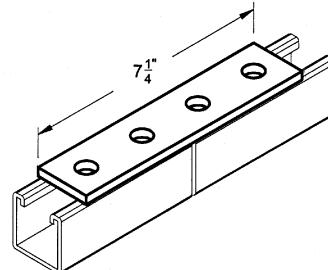
**3-HOLE SPLICE PLATE  
1-5/8" X 5-3/8"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .55                |

**9007FF**

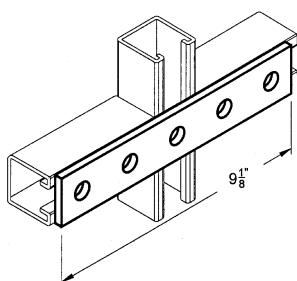
**4-HOLE SPLICE PLATE  
1-5/8" X 7-1/4"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .76                |

**9008FF**

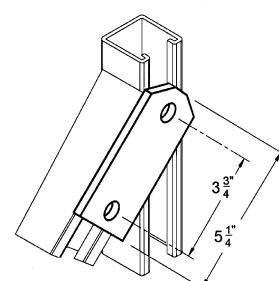
**5-HOLE SPLICE PLATE  
1-5/8" X 9-1/8"**



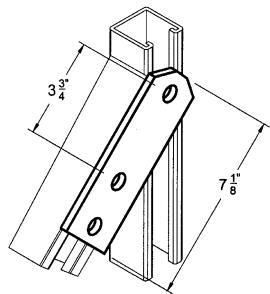
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .95                |

**9009FF**

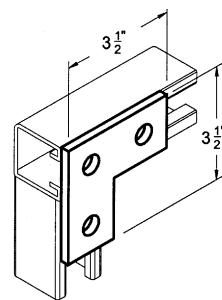
**2-HOLE SWIVEL PLATE  
1-5/8" X 5-1/4"**



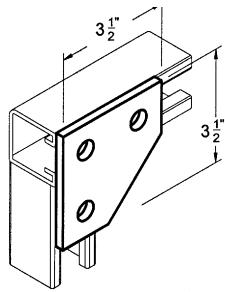
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .48                |

**9010FF****3-HOLE SWIVEL PLATE  
1-5/8" X 7-1/8"**

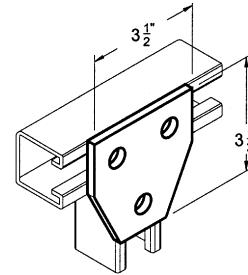
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .69                |

**9011FF****3-HOLE CORNER PLATE  
3-1/2" X 3-1/2"**

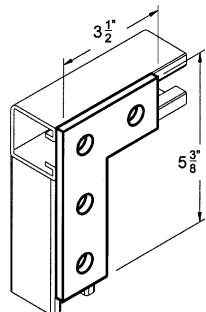
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .56                |

**9012FF****3-HOLE CORNER GUSSET  
3-1/2" X 3-1/2"**

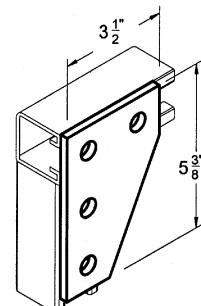
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .70                |

**9013FF****3-HOLE TEE GUSSET  
3-1/2" X 3-1/2"**

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .70                |

**9014FF****4-HOLE CORNER PLATE  
3-1/2" X 5-3/8"**

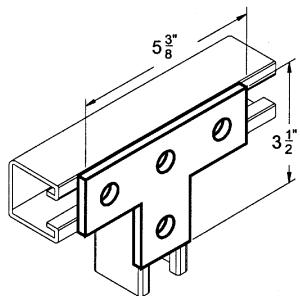
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .75                |

**9015FF****4-HOLE TEE CORNER GUSSET  
3-1/2" X 5-3/8"**

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 1.02               |

**9016FF**

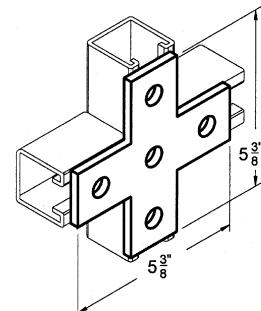
**4-HOLE TEE PLATE**  
**3-1/2" X 5-3/8"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .75                |

**9017FF**

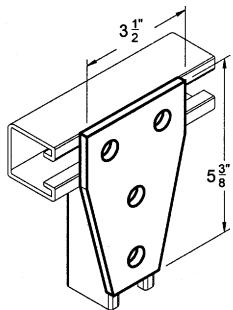
**5-HOLE CROSS PLATE**  
**5-3/8" X 5-3/8"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 1.00               |

**9018FF**

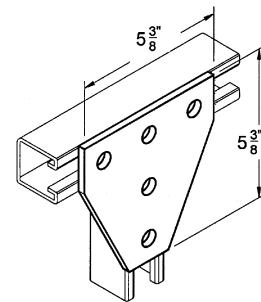
**4-HOLE TEE GUSSET**  
**3-1/2" X 5-3/8"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 1.00               |

**9019FF**

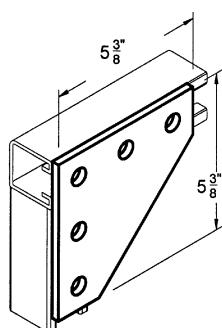
**5-HOLE TEE GUSSET**  
**5-3/8" X 5-3/8"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 1.43               |

**9020FF**

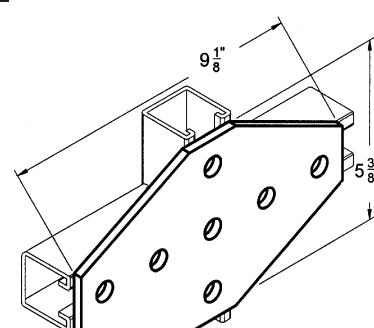
**5-HOLE CORNER GUSSET**  
**5-3/8" X 5-3/8"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 1.45               |

**9021FF**

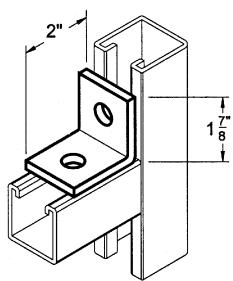
**7-HOLE CROSS GUSSET**  
**5-3/8" X 9-1/8"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 2.32               |

**9022CA**

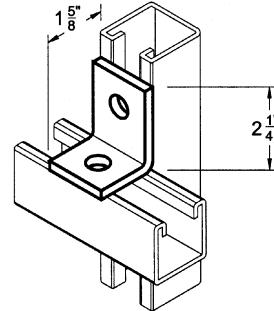
**2-HOLE CORNER ANGLE  
1-7/8" X 2"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .37                |

**9023CA**

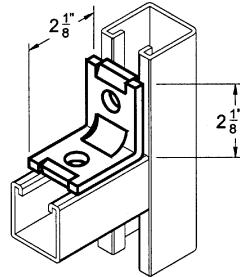
**2-HOLE CORNER ANGLE  
1-5/8" X 2 1/4"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .37                |

**9024CA**

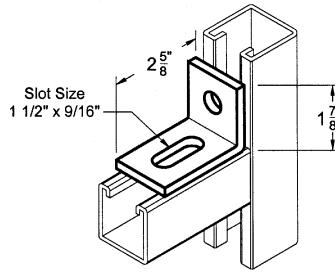
**2-HOLE CORNER ANGLE  
WITH GUIDES  
2-1/8" X 2 1/8"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .41                |

**9025CA**

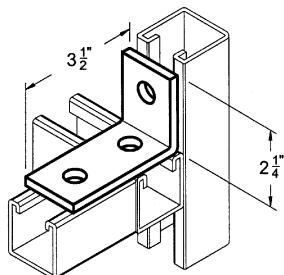
**1-HOLE ADJUSTABLE  
CORNER ANGLE WITH SLOT  
1-7/8" X 2-5/8"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .38                |

**9026CA**

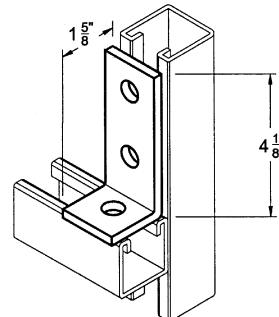
**3-HOLE CORNER ANGLE  
2-1/4" X 3-1/2"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .56                |

**9027CA**

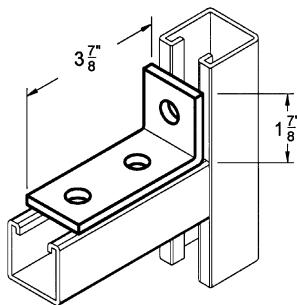
**3-HOLE CORNER ANGLE  
1-5/8" X 4-1/8"**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .56                |

9028CA

3-HOLE CORNER ANGLE  
1-7/8" X 3-7/8"



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

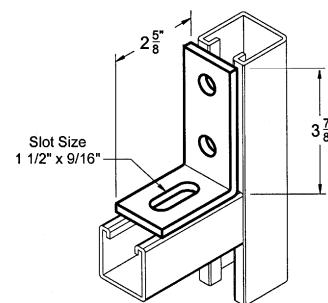
9/16"

Wt. Each (lbs):

.58

9029CA

2-HOLE ADJUSTABLE  
CORNER ANGLE WITH SLOT  
2-5/8" X 3-7/8"



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

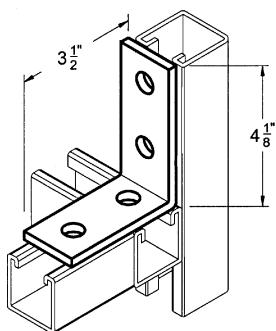
9/16"

Wt. Each (lbs):

.61

9030CA

4-HOLE CORNER ANGLE  
3-1/2" X 4-1/8"



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

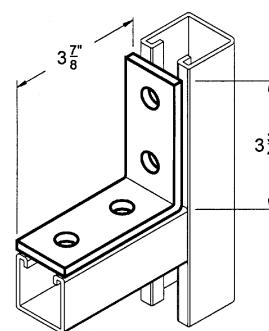
9/16"

Wt. Each (lbs):

.78

9031CA

4-HOLE CORNER ANGLE  
3-3/4" X 3-7/8"



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

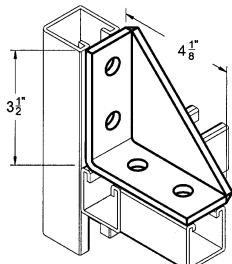
9/16"

Wt. Each (lbs):

.76

9032CA

4-HOLE WEBBED CORNER  
ANGLE, RIGHT HAND  
3-1/2" X 4-1/8"



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

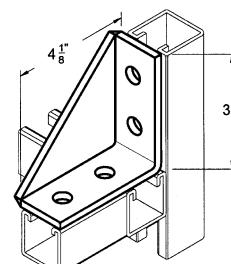
9/16"

Wt. Each (lbs):

1.12

9033CA

4-HOLE WEBBED CORNER  
ANGLE, LEFT HAND  
3-1/2" X 4-1/8"



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

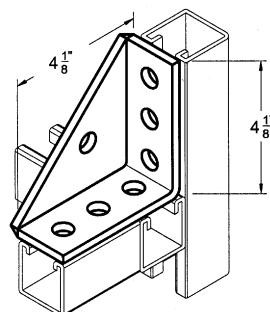
9/16"

Wt. Each (lbs):

1.12

**9034CA**

**7-HOLE UNIVERSAL  
CORNER ANGLE  
4-1/8" X 4-1/8"**



**Material:** 1/4"

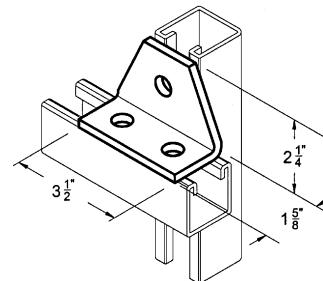
**Finish:** Electro-Galvanized

**Hole Dim:** 9/16"

**Wt. Each (lbs):** 1.32

**9035CA**

**3-HOLE SHELF  
GUSSET ANGLE  
1-5/8" X 2-1/4"**



**Material:** 1/4"

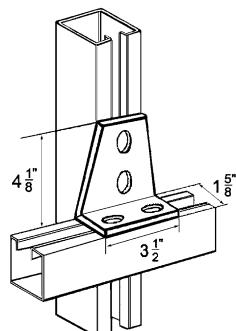
**Finish:** Electro-Galvanized

**Hole Dim:** 9/16"

**Wt. Each Lbs.):** .67

**9036CA**

**4-HOLE SHELF  
GUSSET ANGLE  
1-5/8" X 4-1/8"**



**Material:** 1/4"

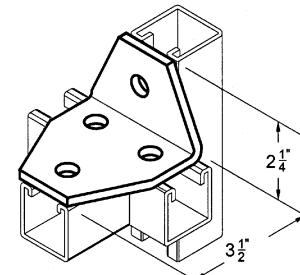
**Finish:** Electro-Galvanized

**Hole Dim:** 9/16"

**Wt. Each (lbs):** 1.02

**9037CA**

**4-HOLE SHELF GUSSET  
3-WAY ANGLE  
2-1/4" X 3-1/2"**



**Material:** 1/4"

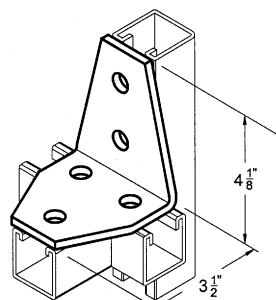
**Finish:** Electro-Galvanized

**Hole Dim:** 9/16"

**Wt. Each (lbs):** 1.01

**9038CA**

**5-HOLE SHELF GUSSET  
3-WAY ANGLE  
3-1/2" X 4-1/8"**



**Material:** 1/4"

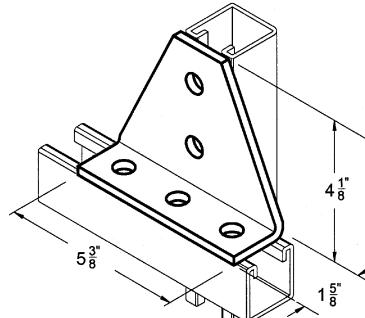
**Finish:** Electro-Galvanized

**Hole Dim:** 9/16"

**Wt. Each (lbs):** 1.35

**9039CA**

**5-HOLE SHELF  
GUSSET ANGLE  
1-5/8" X 4-1/8"**

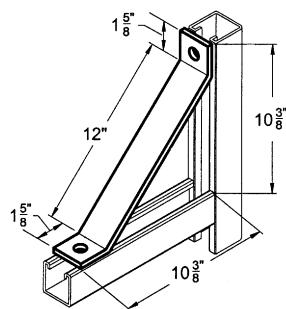


**Material:** 1/4"

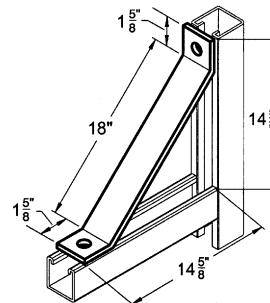
**Finish:** Electro-Galvanized

**Hole Dim:** 9/16"

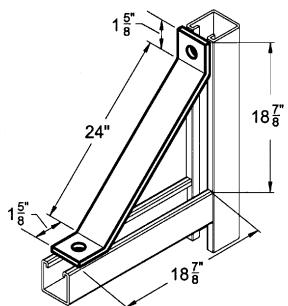
**Wt. Each (lbs):** 1.41

**9040CA****2-HOLE 45° KNEE BRACE 12"**

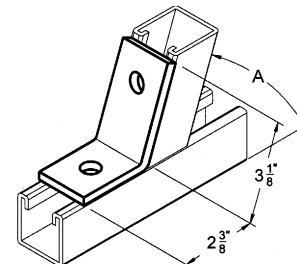
|                       |                    |
|-----------------------|--------------------|
| <b>Material:</b>      | 1/4"               |
| <b>Finish:</b>        | Electro-Galvanized |
| <b>Hole Dim:</b>      | 9/16"              |
| <b>Wt. Each Lbs.:</b> | 1.65               |

**9042CA****2-HOLE 45° KNEE BRACE 18"**

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (Lbs):</b> | 2.34               |

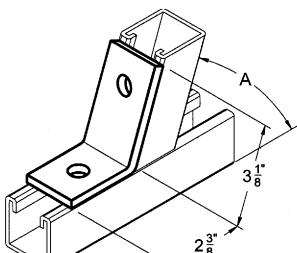
**9043CA****2-HOLE 45° KNEE BRACE 24"**

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (Lbs):</b> | 3.03               |

**9044AF****2-HOLE OPEN ANGLE 30°  
2-3/8" X 3-1/8"**

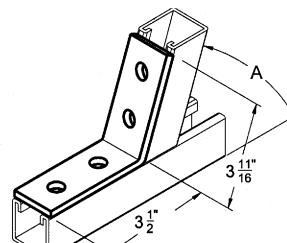
\* "A" is available in any angle up to 90°  
 Dimensions shown may vary based on specified angle "A"

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .59                |

**9045AF****2-HOLE OPEN ANGLE 45°  
2-3/8" X 3-1/8"**

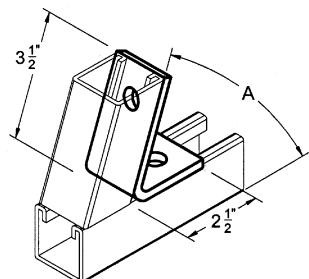
\* "A" is available in any angle up to 90°  
 Dimensions shown may vary based on specified angle "A"

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .59                |

**9046AF****4-HOLE OPEN ANGLE 45°  
3-1/2" X 3-11/16"**

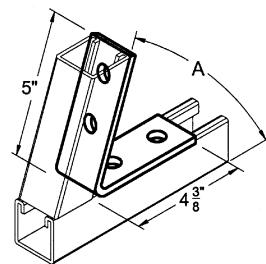
\* "A" is available in any angle up to 90°  
 Dimensions shown may vary based on specified angle "A"

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .78                |

**9047AF****2-HOLE CLOSED ANGLE 45°  
2-1/2" X 3-1/2"**

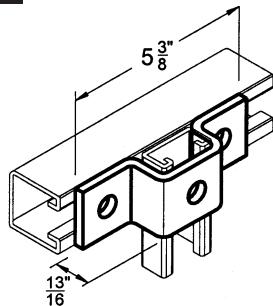
\* "A" is available in any angle up to 90°  
Dimensions shown may vary based on specified angle "A"

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .56                |

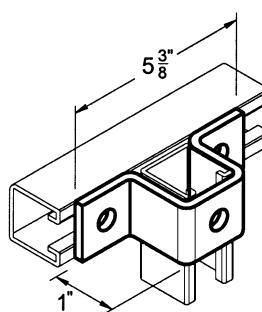
**9048AF****4-HOLE CLOSED ANGLE 45°  
4-3/8" X 5"**

\* "A" is available in any angle up to 90°  
Dimensions shown may vary based on specified angle "A"

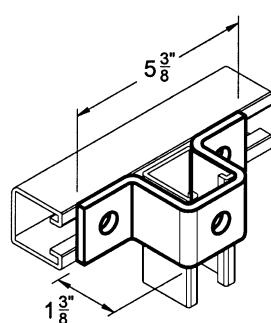
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .95                |

**9049UF****3-HOLE "U" SUPPORT  
FOR 1-5/8" X 13/16" STRUT**

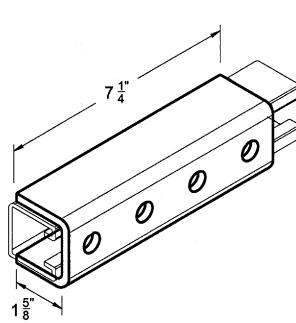
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .70                |

**9050UF****3-HOLE "U" SUPPORT  
FOR 1-5/8" X 1" STRUT**

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .71                |

**9051UF****3-HOLE "U" SUPPORT  
FOR 1-5/8" X 1-3/8" STRUT**

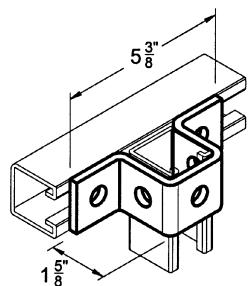
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .84                |

**9052UF****4-HOLE SPLICE CLEVIS  
FOR 1-5/8" X 1-5/8" STRUT**

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 2.33               |

**9053UF**

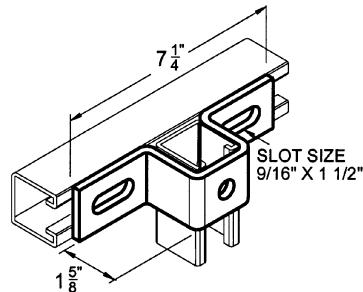
**5-HOLE "U" SUPPORT  
FOR 1-5/8" X 1-5/8" STRUT**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .85                |

**9054UF**

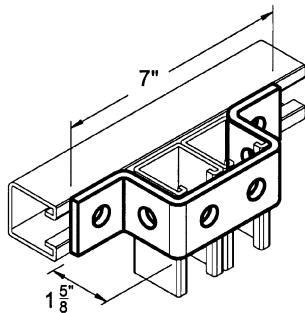
**ADJUSTABLE 1-HOLE, 2 SLOT  
"U" SUPPORT  
FOR 1-5/8" X 1-5/8" STRUT**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 1.03               |

**9055UF**

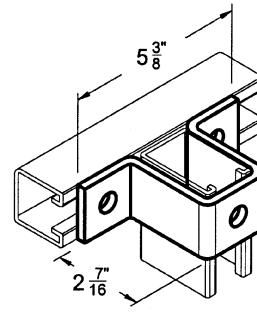
**6-HOLE "U" SUPPORT  
FOR 1-5/8" DOUBLE STRUT**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 1.05               |

**9056UF**

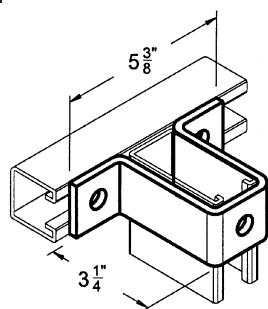
**3-HOLE "U" SUPPORT  
FOR 1-5/8" X 2-7/16" STRUT**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 1.08               |

**9057UF**

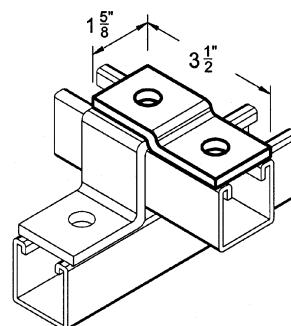
**3-HOLE "U" SUPPORT  
FOR 3-1/4" STRUT**



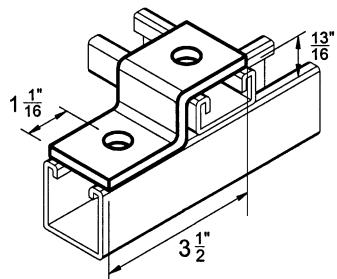
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 1.26               |

**9058ZF**

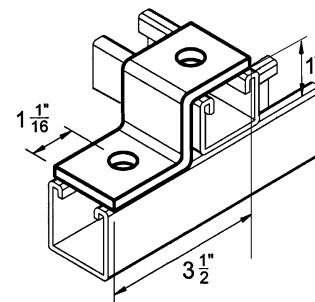
**2-HOLE OFFSET "Z" SUPPORT**



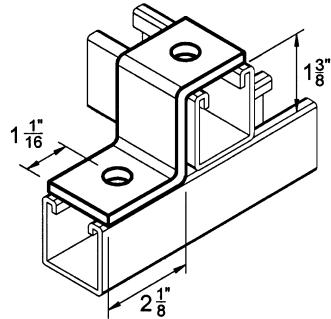
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .38                |

**9059ZF****2-HOLE "Z" SUPPORT  
FOR 1-5/8" X 13/16" STRUT**

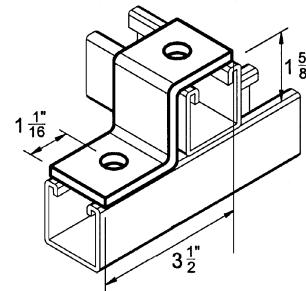
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .43                |

**9060ZF****2-HOLE "Z" SUPPORT  
FOR 1-5/8" X 1" STRUT**

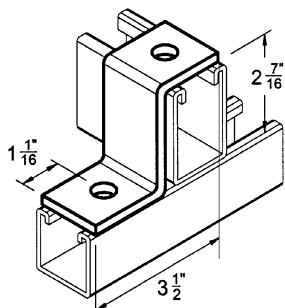
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .44                |

**9061ZF****2-HOLE "Z" SUPPORT  
FOR 1-5/8" X 1-3/8 STRUT**

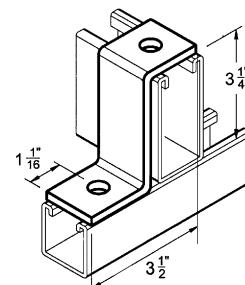
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .51                |

**9062ZF****2-HOLE "Z" SUPPORT  
FOR 1-5/8" X 1-5/8 STRUT**

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .52                |

**9063ZF****2-HOLE "Z" SUPPORT  
FOR 1-5/8" X 2-7/16" STRUT**

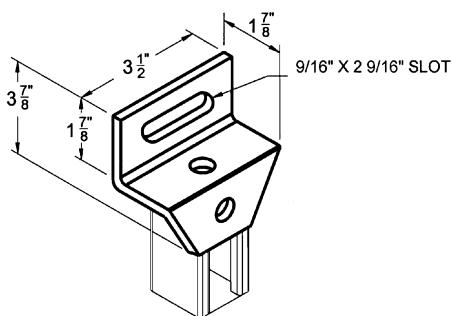
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .64                |

**9064ZF****2-HOLE "Z" SUPPORT  
FOR 1-5/8" X 3-1/4" STRUT  
OR STRUT COMBINATION**

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .70                |

9065ZF

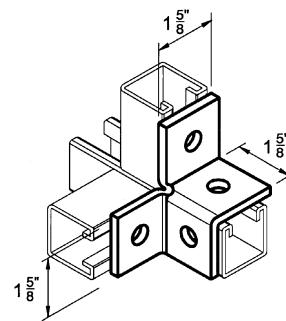
ADJUSTABLE OFFSET  
GUSSETTED "Z" SUPPORT



|                 |                    |
|-----------------|--------------------|
| Material:       | 1/4"               |
| Finish:         | Electro-Galvanized |
| Hole Dim:       | 9/16"              |
| Wt. Each (lbs): | .97                |

9066WF

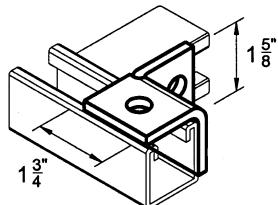
4-HOLE DOUBLE CORNER  
CONNECTION



|                 |                    |
|-----------------|--------------------|
| Material:       | 1/4"               |
| Finish:         | Electro-Galvanized |
| Hole Dim:       | 9/16"              |
| Wt. Each (lbs): | .76                |

9067WF

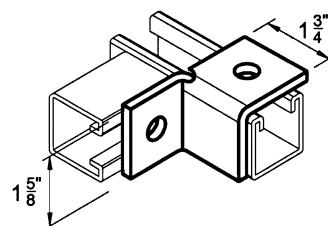
2-HOLE SINGLE CORNER  
CONNECTION - RIGHT HAND



|                 |                    |
|-----------------|--------------------|
| Material:       | 1/4"               |
| Finish:         | Electro-Galvanized |
| Hole Dim:       | 9/16"              |
| Wt. Each (lbs): | .60                |

9068WF

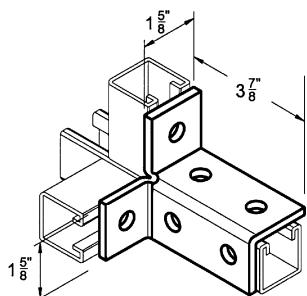
2-HOLE SINGLE CORNER  
CONNECTION - LEFT HAND



|                 |                    |
|-----------------|--------------------|
| Material:       | 1/4"               |
| Finish:         | Electro-Galvanized |
| Hole Dim:       | 9/16"              |
| Wt. Each (lbs): | .60                |

9069WF

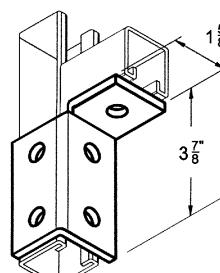
6-HOLE DOUBLE CORNER  
CONNECTION



|                 |                    |
|-----------------|--------------------|
| Material:       | 1/4"               |
| Finish:         | Electro-Galvanized |
| Hole Dim:       | 9/16"              |
| Wt. Each (lbs): | 1.10               |

9070WF

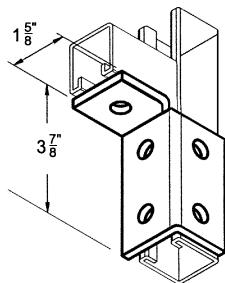
5-HOLE SINGLE CORNER  
CONNECTION - RIGHT HAND



|                 |                    |
|-----------------|--------------------|
| Material:       | 1/4"               |
| Finish:         | Electro-Galvanized |
| Hole Dim:       | 9/16"              |
| Wt. Each (lbs): | 1.00               |

9071WF

5-HOLE SINGLE CORNER  
CONNECTION - LEFT HAND



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

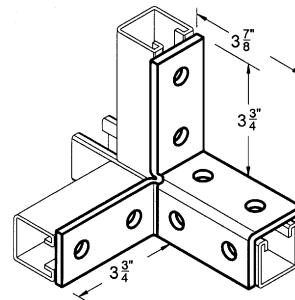
9/16"

Wt. Each (lbs):

1.00

9072WF

8-HOLE DOUBLE CORNER  
CONNECTION



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

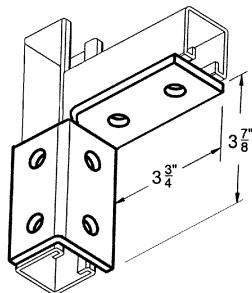
9/16"

Wt. Each (lbs):

1.52

9073WF

6-HOLE SINGLE CORNER  
CONNECTION - RIGHT HAND



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

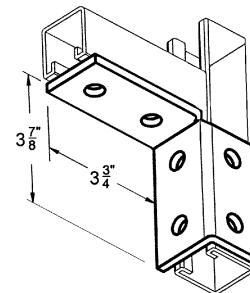
9/16"

Wt. Each (lbs):

1.20

9074WF

6-HOLE SINGLE CORNER  
CONNECTION - LEFT HAND



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

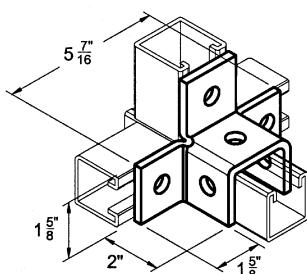
9/16"

Wt. Each (lbs):

1.20

9075WF

6-HOLE TRIPLE WING  
CONNECTION



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

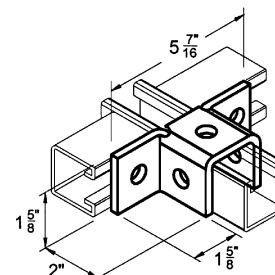
9/16"

Wt. Each (lbs):

1.12

9076WF

5-HOLE DOUBLE WING  
CONNECTION



Material:

1/4"

Finish:

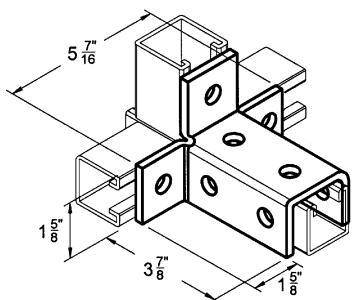
Electro-Galvanized

Hole Dim:

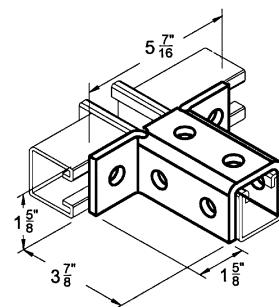
9/16"

Wt. Each (lbs):

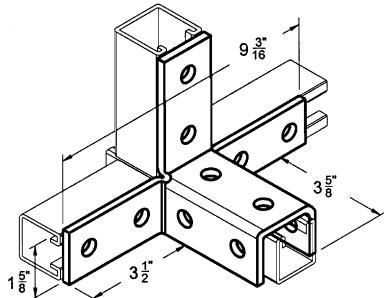
.93

**9077WF****9-HOLE TRIPLE WING CONNECTION**

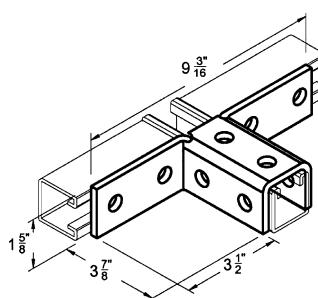
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 1.77               |

**9078WF****8-HOLE DOUBLE WING CONNECTION**

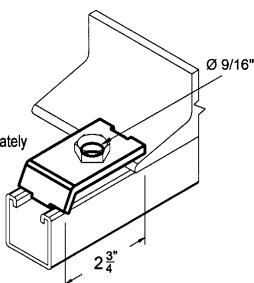
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 1.56               |

**9079WF****12-HOLE TRIPLE WING CONNECTION**

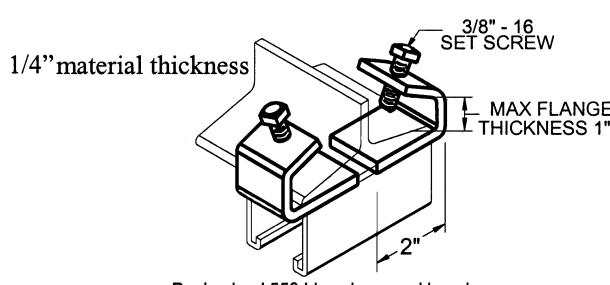
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 2.34               |

**9080WF****10-HOLE DOUBLE WING CONNECTION**

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 1.93               |

**9081BC****STRUT BEAM CLAMP,  
NOTCHED**

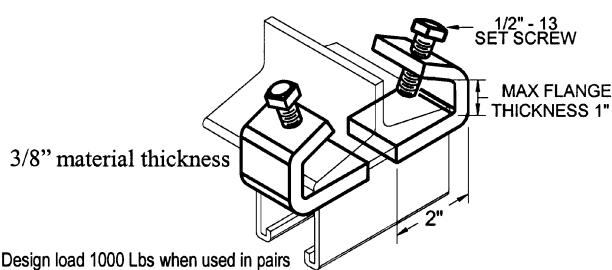
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .28                |

**9082BC****STRUT BEAM CLAMP  
LIGHT DUTY  
1/4" THICK**

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .62                |

**9083BC**

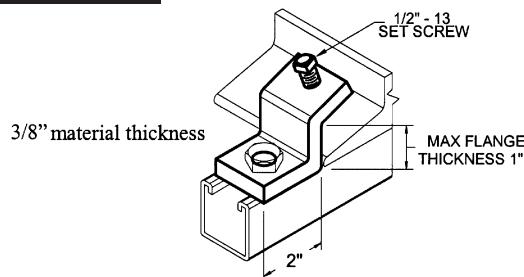
**STRUT BEAM CLAMP  
HEAVY DUTY  
3/8" THICK**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .93                |

**9084BC**

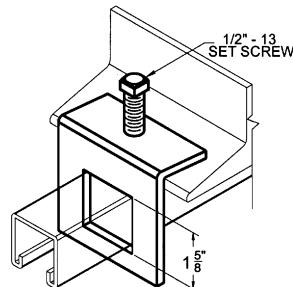
**STRUT "Z" BEAM CLAMP  
HEAVY DUTY**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .64                |

**9085BC**

**STRUT BEAM CLAMP,  
WINDOW TYPE  
FOR 1-5/8" STRUT**

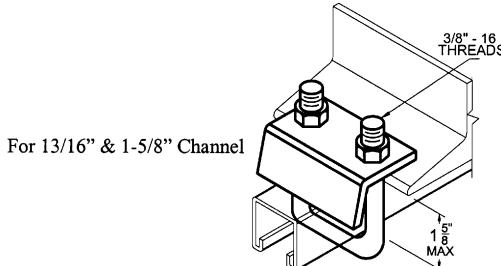


Design load 950 Lbs when used in pairs

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 1.06               |

**9086BC**

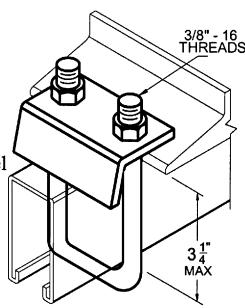
**STRUT U-BOLT BEAM CLAMP  
FOR 13/16" AND 1-5/8" STRUT**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .84                |

**9087BC**

**STRUT U-BOLT BEAM CLAMP  
FOR 2-7/16" AND 3-1/4" STRUT**

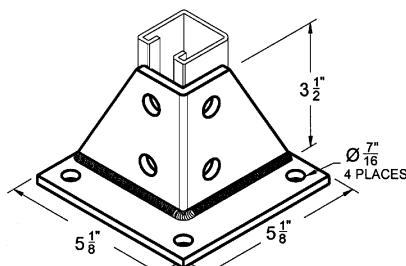


For 2-7/16" & 3-1/4" Channel

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | .93                |

**9088PB**

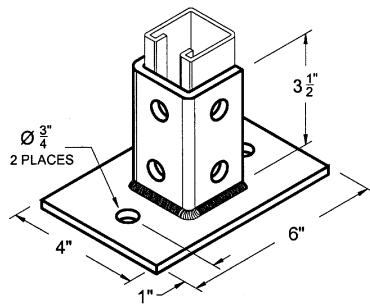
**POST BASE  
FOR 1-5/8" X 1-5/8" STRUT  
5-1/8" BASE**



|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 2.88               |

9089PB

POST BASE  
FOR 1-5/8" X 1-5/8" STRUT  
4" X 6" BASE



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

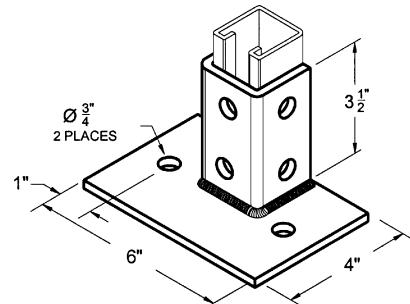
9/16"

Wt. Each (lbs):

3.12

9090PB

POST BASE - FLUSH MOUNT  
FOR 1-5/8" X 1-5/8" STRUT  
4" X 6" BASE



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

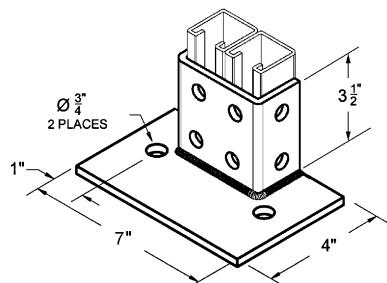
9/16"

Wt. Each (lbs):

3.12

9091PB

POST BASE  
FOR 1-5/8" X 3-1/4" STRUT  
4" X 7" BASE



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

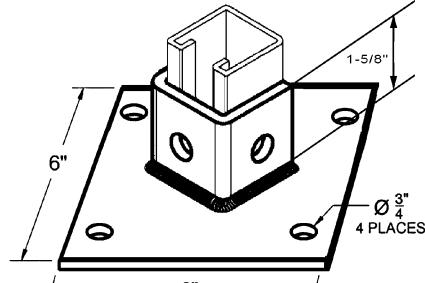
9/16"

Wt. Each (lbs):

3.20

9092PB

POST BASE  
FOR 1-5/8" X 1-5/8" STRUT  
6" BASE



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

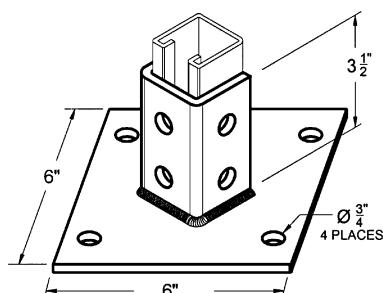
9/16"

Wt. Each (lbs):

3.14

9093PB

POST BASE - DIAGONAL  
FOR 1-5/8" X 1-5/8" STRUT



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

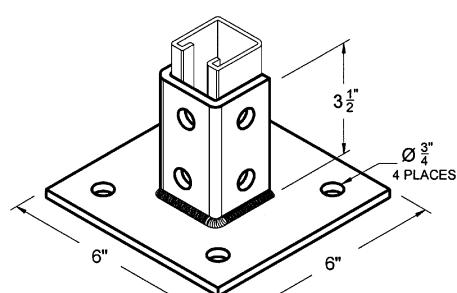
9/16"

Wt. Each (lbs):

3.92

9094PB

POST BASE - SQUARE  
FOR 1-5/8" X 1-5/8" STRUT



Material:

1/4"

Finish:

Electro-Galvanized

Hole Dim:

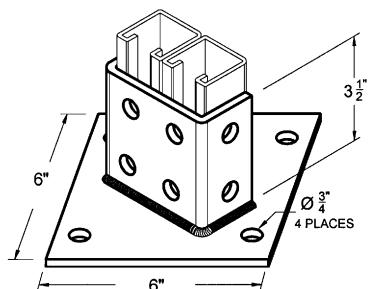
9/16"

Wt. Each (lbs):

3.92

**9095PB**

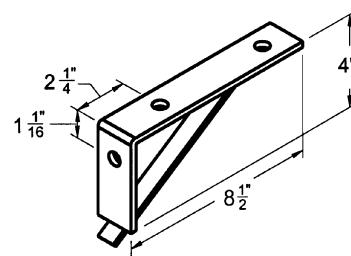
**POST BASE  
FOR 1-5/8" X 3-1/4" STRUT  
6" BASE**



|                 |                    |
|-----------------|--------------------|
| Material:       | 1/4"               |
| Finish:         | Electro-Galvanized |
| Hole Dim:       | 9/16"              |
| Wt. Each (lbs): | 4.04               |

**9103BB**

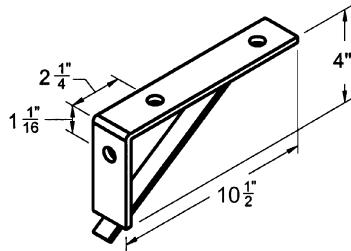
**HEAVY DUTY BRACKET  
8-1/2"**



|                 |                    |
|-----------------|--------------------|
| Material:       | 1/4"               |
| Finish:         | Electro-Galvanized |
| Hole Dim:       | 9/16"              |
| Wt. Each (lbs): | 1.68               |

**9104BB**

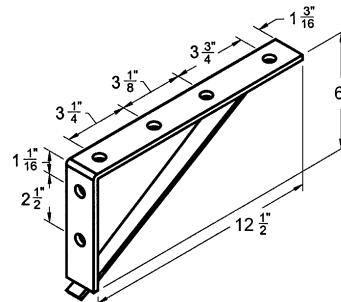
**HEAVY DUTY BRACKET  
10-1/2"**



|                 |                    |
|-----------------|--------------------|
| Material:       | 1/4"               |
| Finish:         | Electro-Galvanized |
| Hole Dim:       | 9/16"              |
| Wt. Each (lbs): | 2.02               |

**9105BB**

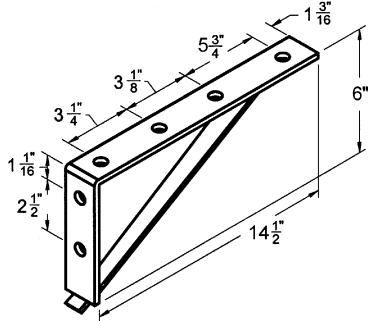
**HEAVY DUTY BRACKET  
12-1/2"**



|                 |                    |
|-----------------|--------------------|
| Material:       | 1/4"               |
| Finish:         | Electro-Galvanized |
| Hole Dim:       | 9/16"              |
| Wt. Each (lbs): | 2.58               |

**9106BB**

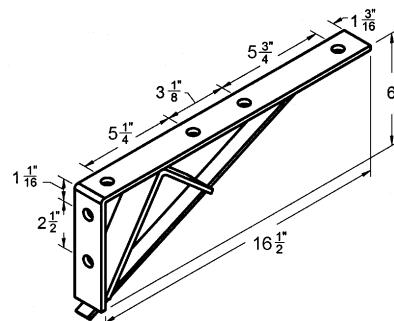
**HEAVY DUTY BRACKET  
14-1/2"**



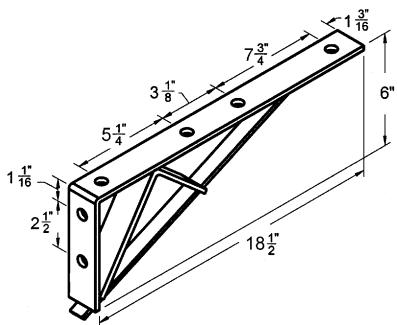
|                 |                    |
|-----------------|--------------------|
| Material:       | 1/4"               |
| Finish:         | Electro-Galvanized |
| Hole Dim:       | 9/16"              |
| Wt. Each (lbs): | 2.92               |

**9107BB**

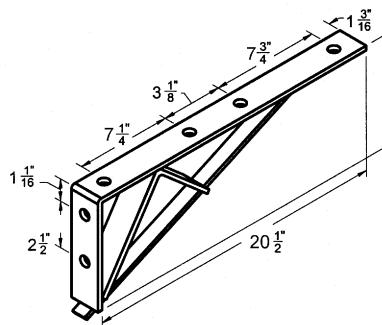
**HEAVY DUTY SHELF BRACKET  
16-1/2"**



|                 |                    |
|-----------------|--------------------|
| Material:       | 1/4"               |
| Finish:         | Electro-Galvanized |
| Hole Dim:       | 9/16"              |
| Wt. Each (lbs): | 3.81               |

**9108BB****HEAVY DUTY SHELF BRACKET  
18-1/2"**

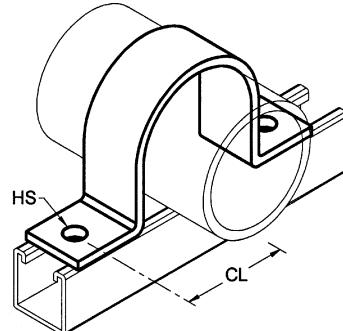
|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 4.16               |

**9109BB****HEAVY DUTY SHELF BRACKET  
20-1/2"**

|                        |                    |
|------------------------|--------------------|
| <b>Material:</b>       | 1/4"               |
| <b>Finish:</b>         | Electro-Galvanized |
| <b>Hole Dim:</b>       | 9/16"              |
| <b>Wt. Each (lbs):</b> | 4.61               |

**9110HD****TWO HOLE  
HOLD DOWN CLAMP****Material:**

Electro-galvanized carbon steel.



| Pipe Size | HS (in.) | CL (in.) | Weight Each (lbs) |
|-----------|----------|----------|-------------------|
| 1/2"      | 5/16"    | 15/16"   | .23               |
| 3/4"      | 5/16"    | 1"       | .26               |
| 1"        | 5/16"    | 1-1/8"   | .31               |
| 1-1/4"    | 5/16"    | 1-5/16"  | .35               |
| 1-1/2"    | 5/16"    | 1-7/16"  | .39               |
| 2"        | 7/16"    | 2-1/8"   | .94               |
| 2-1/2"    | 7/16"    | 2-3/8"   | 1.14              |
| 3"        | 7/16"    | 2-11/16" | 1.33              |
| 3-1/2"    | 7/16"    | 2-15/16" | 1.52              |
| 4"        | 9/16"    | 3-3/16"  | 1.76              |
| 5"        | 9/16"    | 3-3/4"   | 1.98              |
| 6"        | 9/16"    | 4-1/4"   | 2.25              |

**Catalog Cross Reference Listing**

CHANNEL DENOTED BY GRAY SHADING

**COOPER B-LINE**

| COOPER<br>B-LINE         | EMPIRE | COOPER<br>B-LINE       | EMPIRE        | COOPER<br>B-LINE | EMPIRE        |
|--------------------------|--------|------------------------|---------------|------------------|---------------|
| B11                      | 7250   | B140                   | 9011FF        | B333-1           | 9054UF        |
| B11A                     | 7251   | B141                   | 9006FF        | B334             | 9021FF        |
| B12                      | 7230   | B142                   | 9015FF        | B337             | 9013FF        |
| B12A                     | 7240   | B143                   | 9014FF        | B340             | 9004FF        |
| B12SH                    | 7231   | B155                   | 9047AF        | B341             | 9007FF        |
| B12SHA                   | 7241   | B162                   | 9044AF        | B342             | 9008FF        |
| B22                      | 7000   | B172                   | 9052UF        | B355             | 9081BC        |
| B22A                     | 7000A  | B187 (9")              | 9103BB        | B368             | 9048AF        |
| B22SH                    | 7001   | B188 (12")             | 9105BB        | B371             | 9025CA        |
| B22SHA                   | 7001A  | B189 (15")             | 9106BB        | B371-2           | 9029CA        |
| B24                      | 7100   | B201                   | 9001FF SERIES | B441-22          | 9086BC        |
| B24SH                    | 7101   | B201D                  | 9002FF SERIES | B441-22A         | 9087BC        |
| B32I                     | 7225   | B202                   | 9001FF SERIES | B515             | 9065ZF        |
| B54                      | 7200   | B202-1                 | 9001FF SERIES | B526             | 9058ZF        |
| B54SH                    | 7201   | B202D                  | 9002FF SERIES | B528             | 9005FF        |
| B101                     | 9023CA | B202-1D                | 9002FF SERIES | B532             | 9019FF        |
| B102                     | 9026CA | B202-2                 | 9001FF SERIES | B533             | 9039CA        |
| B103                     | 9027CA | B202-2D                | 9002FF SERIES | B541             | 9104BB        |
| B104                     | 9030CA | B211                   | 9084BC        | B556             | 9020FF        |
| B105                     | 9062ZF | B212-1/4               | 9082BC        | B844 (4" X 4")   | 9034CA        |
| B106-12                  | 9063ZF | B212-3/8               | 9083BC        | B1999            | 8550          |
| B106-52                  | 9059ZF | B230                   | 9022CA        | B2007PA          | 8200 SERIES   |
| B106-32                  | 9061ZF | B231 (2-1/4" X 2-1/4") | 9024CA        | B2008PA          | 8200 SERIES   |
| B106-42                  | 9060ZF | B232                   | 9028CA        | B2008SS4PA       | 8200SS SERIES |
| B107                     | 9053UF | B248                   | 9046AF        | B2009PA          | 8200 SERIES   |
| B107-22A                 | 9057UF | B261-12                | 9040CA        | B2009SS4PA       | 8200SS SERIES |
| B110                     | 9064ZF | B261-18                | 9042CA        | B2010PA          | 8200 SERIES   |
| B115 (3-3/4" X 3-15/16") | 9031CA | B261-24                | 9043CA        | B2010SS4PA       | 8200SS SERIES |
| B116-12                  | 9056UF | B266                   | 9055UF        | B2011PA          | 8200 SERIES   |
| B116-32                  | 9051UF | B267L                  | 9068WF        | B2011SS4PA       | 8200SS SERIES |
| B116-42                  | 9050UF | B267R                  | 9067WF        | B2012PA          | 8200 SERIES   |
| B116-52                  | 9049UF | B268L                  | 9071WF        | B2012SS4PA       | 8200SS SERIES |
| B118                     | 9036CA | B268R                  | 9070WF        | B2013PA          | 8200 SERIES   |
| B119                     | 9066WF | B269L                  | 9074WF        | B2013PA (ZN)     | 8250 SERIES   |
| B120                     | 9069WF | B271                   | 9076WF        | B2013SS4PA       | 8200SS SERIES |
| B121                     | 9072WF | B272                   | 9078WF        | B2014PA          | 8200 SERIES   |
| B122                     | 9075WF | B273                   | 9080WF        | B2014PA (ZN)     | 8250 SERIES   |
| B123                     | 9079WF | B278                   | 9088PB        | B2014SS4PA       | 8200SS SERIES |
| B124                     | 9077WF | B279SQ                 | 9092PB        | B2015PA          | 8200 SERIES   |
| B125                     | 9035CA | B280                   | 9093PB        | B2015PA (ZN)     | 8250 SERIES   |
| B126                     | 9037CA | B280FL (3-1/8" X 8")   | 9090PB        | B2015SS4PA       | 8200SS SERIES |
| B127                     | 9038CA | B280SQ                 | 9094PB        | B2016PA          | 8200 SERIES   |
| B129                     | 9003FF | B281                   | 9095PB        | B2016PA (ZN)     | 8250 SERIES   |
| B132                     | 9017FF | B281FL (3-1/8" X 8")   | 9091PB        | B2016SS4PA       | 8200SS SERIES |
| B133                     | 9016FF | B290                   | 9107BB        | B2017PA          | 8200 SERIES   |
| B135                     | 9012FF | B291                   | 9108BB        | B2017PA (ZN)     | 8250 SERIES   |
| B136                     | 9018FF | B292                   | 9109BB        | B2017SS4PA       | 8200SS SERIES |
| B138 (1-5/8" X 4-5/8")   | 9009FF | B314                   | 9085BC        | B2018PA (ZN)     | 8250 SERIES   |
| B139 (1-5/8" X 6-1/2")   | 9010FF | B269R                  | 9073WF        |                  | CONTINUED     |

## Catalog Cross Reference Listing

### COOPER B-LINE - *continued*

| <b>COOPER<br/>B-LINE</b> | <b>EMPIRE</b>         | <b>COOPER<br/>B-LINE</b> | <b>EMPIRE</b>         | <b>COOPER<br/>B-LINE</b> | <b>EMPIRE</b> |
|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|---------------|
| B2019PA                  | 8200 SERIES           | B2062PA (ZN)             | 8250 SERIES           | N223WO                   | 8000 SERIES   |
| B2019SS4PA               | 8200SS SERIES         | B2063PA (ZN)             | 8250 SERIES           | N224                     | 8100 SERIES   |
| B2020PA                  | 8200 SERIES           | B2064PA (ZN)             | 8250 SERIES           | N224SS6                  | 8100SX SERIES |
| B2020PA (ZN)             | 8250 SERIES           | B2065PA (ZN)             | 8250 SERIES           | N224WO                   | 8000 SERIES   |
| B2020SS4PA               | 8200SS SERIES         | B2066PA (ZN)             | 8250 SERIES           | N225                     | 8100 SERIES   |
| B2022PA                  | 8200 SERIES           | B2067PA (ZN)             | 8250 SERIES           | N225SS6                  | 8100SX SERIES |
| B2023PA (ZN)             | 8250 SERIES           | B2068PA (ZN)             | 8250 SERIES           | N225WO                   | 8000 SERIES   |
| B2024PA (ZN)             | 8250 SERIES           | B2069PA (ZN)             | 8250 SERIES           | N226                     | 8100 SERIES   |
| B2025PA (DCU)            | 8300CT/8300CTP SERIES | B2110PA (DCU)            | 8300CT/8300CTP SERIES | N226WO                   | 8000 SERIES   |
| B2025PA (ZN)             | 8250 SERIES           | B2110PA (ZN)             | 8250 SERIES           | N227                     | 8100 SERIES   |
| B2026PA (DCU)            | 8300CT/8300CTP SERIES | B2111PA (ZN)             | 8250 SERIES           | N227WO                   | 8000 SERIES   |
| B2026PA (ZN)             | 8250 SERIES           | B2112PA (ZN)             | 8250 SERIES           | N228                     | 8100 SERIES   |
| B2027PA (ZN)             | 8250 SERIES           | B2113PA (ZN)             | 8250 SERIES           | N228SS6                  | 8100SX SERIES |
| B2028PA (DCU)            | 8300CT/8300CTP SERIES | B2115PA (ZN)             | 8250 SERIES           | N228WO                   | 8000 SERIES   |
| B2028PA (ZN)             | 8250 SERIES           | B2116PA (ZN)             | 8250 SERIES           | N255                     | 8100 SERIES   |
| B2029PA (ZN)             | 8250 SERIES           | B2117PA (ZN)             | 8250 SERIES           | N255SS6                  | 8100SX SERIES |
| B2030PA (DCU)            | 8300CT/8300CTP SERIES | B2128PA (ZN)             | 8250 SERIES           | N255WO                   | 8000 SERIES   |
| B2030PA (ZN)             | 8250 SERIES           | B2130PA                  | 8200 SERIES           | N275                     | 8100 SERIES   |
| B2031PA (ZN)             | 8250 SERIES           | B2132PA                  | 8200 SERIES           | N275WO                   | 8000 SERIES   |
| B2032PA (DCU)            | 8300CT/8300CTP SERIES | B2207PA                  | 8350 SERIES           | N278                     | 8100 SERIES   |
| B2032PA (ZN)             | 8250 SERIES           | B2208PA                  | 8350 SERIES           | N278WO                   | 8000 SERIES   |
| B2033PA (ZN)             | 8250 SERIES           | B2209PA                  | 8350 SERIES           | N521                     | 8050 SERIES   |
| B2034PA (DCU)            | 8300CT/8300CTP SERIES | B2210PA                  | 8350 SERIES           | N522                     | 8050 SERIES   |
| B2034PA (ZN)             | 8250 SERIES           | B2211PA                  | 8350 SERIES           | N523                     | 8050 SERIES   |
| B2035PA (ZN)             | 8250 SERIES           | B2212PA                  | 8350 SERIES           | N524                     | 8050 SERIES   |
| B2036PA (ZN)             | 8250 SERIES           | B2213PA                  | 8350 SERIES           | N525                     | 8050 SERIES   |
| B2037PA (ZN)             | 8250 SERIES           | B2400 SERIES             | 9110HD SERIES         | N526                     | 8050 SERIES   |
| B2038PA (DCU)            | 8300CT/8300CTP SERIES | BVT025                   | 8500 SERIES           | N527                     | 8050 SERIES   |
| B2038PA (ZN)             | 8250 SERIES           | BVT037                   | 8500 SERIES           | N528                     | 8050 SERIES   |
| B2039PA (ZN)             | 8250 SERIES           | BVT050                   | 8500 SERIES           | N555                     | 8050 SERIES   |
| B2041PA (ZN)             | 8250 SERIES           | BVT062                   | 8500 SERIES           | TN221                    | 8150 SERIES * |
| B2042PA (DCU)            | 8300CT/8300CTP SERIES | BVT075                   | 8500 SERIES           | TN222                    | 8150 SERIES * |
| B2042PA (ZN)             | 8250 SERIES           | BVT087                   | 8500 SERIES           | TN223                    | 8150 SERIES * |
| B2043PA (ZN)             | 8250 SERIES           | BVT100                   | 8500 SERIES           | TN224                    | 8150 SERIES * |
| B2045PA (ZN)             | 8250 SERIES           | BVT112                   | 8500 SERIES           | TN225                    | 8150 SERIES * |
| B2046PA (DCU)            | 8300CT/8300CTP SERIES | BVT125                   | 8500 SERIES           | TN227                    | 8150 SERIES * |
| B2046PA (ZN)             | 8250 SERIES           | BVT137                   | 8500 SERIES           | TN228                    | 8150 SERIES * |
| B2047PA (ZN)             | 8250 SERIES           | BVT150                   | 8500 SERIES           | TN525                    | 8150 SERIES * |
| B2048PA (ZN)             | 8250 SERIES           | BVT162                   | 8500 SERIES           |                          |               |
| B2050PA (DCU)            | 8300CT/8300CTP SERIES | BVT175                   | 8500 SERIES           |                          |               |
| B2050PA (ZN)             | 8250 SERIES           | BVT187                   | 8500 SERIES           |                          |               |
| B2051PA (ZN)             | 8250 SERIES           | BVT200                   | 8500 SERIES           |                          |               |
| B2052PA (ZN)             | 8250 SERIES           | BVT212                   | 8500 SERIES           |                          |               |
| B2054PA (DCU)            | 8300CT/8300CTP SERIES | BVT262                   | 8500 SERIES           |                          |               |
| B2054PA (ZN)             | 8250 SERIES           | BVT312                   | 8500 SERIES           |                          |               |
| B2055PA (ZN)             | 8250 SERIES           | BVT412                   | 8500 SERIES           |                          |               |
| B2056PA (ZN)             | 8250 SERIES           | N221                     | 8100 SERIES           |                          |               |
| B2058PA (ZN)             | 8250 SERIES           | N221WO                   | 8000 SERIES           |                          |               |
| B2059PA (ZN)             | 8250 SERIES           | N222                     | 8100 SERIES           |                          |               |
| B2060PA (ZN)             | 8250 SERIES           | N222WO                   | 8000 SERIES           |                          |               |
| B2062PA (DCU)            | 8300CT/8300CTP SERIES | N223                     | 8100 SERIES           |                          |               |

\*SIMILAR BUT NOT IDENTICAL

**Catalog Cross Reference Listing****ERICO**

CHANNEL DENOTED BY GRAY SHADING

| ERICO             | EMPIRE                | ERICO                    | EMPIRE      | ERICO      | EMPIRE |
|-------------------|-----------------------|--------------------------|-------------|------------|--------|
| A12               | 7000                  | L15                      | 9025CA      | W19        | 9075WF |
| A12A              | 7000A                 | L18 (EG)                 | 9026CA      | W20        | 9077WF |
| A12AHS            | 7001A                 | L19 (1-7/8" X 3-7/8")    | 9028CA      | W21        | 9079WF |
| A12HS             | 7001                  | L20 (EG)                 | 9027CA      | Z17        | 9063ZF |
| A14               | 7100                  | L21                      | 9029CA      | Z14        | 9058ZF |
| A14HS             | 7101                  | L23 (EG)                 | 9034CA      | Z25        | 9065ZF |
| B1200NCT          | 7225                  | L32                      | 9037CA      | Z10C0000EG | 9059ZF |
| C14               | 7200                  | L33                      | 9038CA      | Z10D0000EG | 9063ZF |
| C14HS             | 7201                  | L34                      | 9036CA      | Z10M0000EG | 9060ZF |
| D12               | 7230                  | L40                      | 9039CA      |            |        |
| D12A              | 7240                  | L43                      | 9035CA      |            |        |
| D12AHS            | 7241                  | L46 30 DEGREE            | 9044AF      |            |        |
| D12HS             | 7231                  | L46 45 DEGREE            | 9045AF      |            |        |
| E12               | 7250                  | L47 45 DEGREE            | 9047AF      |            |        |
| E12HS             | 7251                  | L100000EG                | 9023CA      |            |        |
| BC16A000EG        | 9085BC                | L220000EG                | 9030CA      |            |        |
| BC17A000EG        | 9086BC                | L441200EG                | 9040CA      |            |        |
| BC17D000EG        | 9087BC                | L441800EG                | 9042CA      |            |        |
| BC21              | 9084BC                | NUT SERIES               | 8000        |            |        |
| BC1800037EG       | 9083BC                | OD SERIES                | 8250        |            |        |
| BC200000EG        | 9081BC                | P09 (BASE = 3-1/2" X 6") | 9089PB      |            |        |
| COPC              | 8300CT/8300CTP SERIES | P09F                     | 9090PB      |            |        |
| F090000EG         | 9003FF                | P10SQ                    | 9092PB      |            |        |
| F11-F12 SERIES    | 9002FF SERIES         | P11 SQ                   | 9094PB      |            |        |
| F13-F18 (EG)      | 9001FF SERIES         | P15                      | 9088PB      |            |        |
| F20               | 9006FF                | P110000EG                | 9093PB      |            |        |
| F21               | 9008FF                | RIGD-EG                  | 8200        |            |        |
| F22               | 9004FF                | SPRA SERIES              | 8100        |            |        |
| F23               | 9007FF                | SPRC SERIES              | 8050        |            |        |
| F25               | 9016FF                | STR 2 SERIES             | 9110HD      |            |        |
| F26               | 9009FF                | TCC SERIES               | 8500        |            |        |
| F27               | 9010FF                | TSNT SERIES              | 8150        |            |        |
| F28               | 9017FF                | U11C                     | 9049UF      |            |        |
| F30               | 9013FF                | U12D                     | 9056UF      |            |        |
| F31               | 9018FF                | U13 (7-1/4")             | 9054UF      |            |        |
| F32               | 9019FF                | U24A                     | 9052UF      |            |        |
| F33               | 9015FF                | UNIV SERIES              | 8350 SERIES |            |        |
| F34               | 9020FF                | VS20                     | 8550        |            |        |
| F35               | 9012FF                | W12                      | 9066WF      |            |        |
| F36               | 9011FF                | W13                      | 9069WF      |            |        |
| F37               | 9014FF                | W14                      | 9072WF      |            |        |
| F38               | 9021FF                | W16                      | 9076WF      |            |        |
| L08               | 9024CA                | W17                      | 9078WF      |            |        |
| L11 (1-7/8" X 2") | 9022CA                | W18                      | 9080WF      |            |        |

**Catalog Cross Reference Listing****PHD**

CHANNEL DENOTED BY GRAY SHADING

| <b>PHD</b>    | <b>EMPIRE</b>          | <b>PHD</b>               | <b>EMPIRE</b> | <b>PHD</b>                | <b>EMPIRE</b> |
|---------------|------------------------|--------------------------|---------------|---------------------------|---------------|
| 1001          | 7000 (10')             | 5023                     | 9010FF        | 5610                      | 9070WF        |
| 1002          | 7000 (20')             | 5025                     | 9011FF        | 5611                      | 9071WF        |
| 1011          | 7001 (10')             | 5030                     | 9014FF        | 5615                      | 9073WF        |
| 1022          | 7001 (20')             | 5035                     | 9016FF        | 5616                      | 9074WF        |
| 1101          | 7100 (10')             | 5040                     | 9017FF        | 5620                      | 9066WF        |
| 1102          | 7100 (20')             | 5045                     | 9012FF        | 5625                      | 9069WF        |
| 1111          | 7101 (10')             | 5050                     | 9015FF        | 5630                      | 9072WF        |
| 1112          | 7101 (20')             | 5060                     | 9020FF        | 5635                      | 9076WF        |
| 1301          | 7200 (10')             | 5065                     | 9013FF        | 5640                      | 9078WF        |
| 1302          | 7200 (20')             | 5075                     | 9018FF        | 5645                      | 9080WF        |
| 1311          | 7201 (10')             | 5080                     | 9019FF        | 5650                      | 9075WF        |
| 1312          | 7201 (20')             | 5095                     | 9021FF        | 5655                      | 9079WF        |
| 1501          | 7250 (10')             | 5110 (1-5/8" X 2-1/4")   | 9023CA        | 5660                      | 9077WF        |
| 1502          | 7250 (20')             | 5112                     | 9022CA        | 5730                      | 9052UF        |
| 1511          | 7251 (10')             | 5119                     | 9024CA        | 6010                      | 9092PB        |
| 1512          | 7251 (20')             | 5120 (2-5/16" X 3-1/2")  | 9026CA        | 6020                      | 9093PB        |
| 1601          | 7230 (10')             | 5121 (1-5/8" X 4-3/16")  | 9027CA        | 6025                      | 9094PB        |
| 1602          | 7230 (20')             | 5122                     | 9028CA        | 6030 (3-1/8" X 8")        | 9090PB        |
| 1611          | 7231 (10')             | 5130 (3-1/2" X 4-3/16")  | 9030CA        | 6050                      | 9095PB        |
| 1612          | 7231 (20')             | 5131 (3-13/16" X 3-7/8") | 9031CA        | 6065 (BASE = 3-1/8" X 8") | 9091PB        |
| 4000          | 7225                   | 5165                     | 9034CA        | 6095                      | 9088PB        |
| 1001A         | 7000A (10')            | 5180                     | 9035CA        | 6101                      | 9103BB        |
| 1002A         | 7000A (20')            | 5185 (1-5/8" X 4-3/16")  | 9036CA        | 6102                      | 9104BB        |
| 1011A         | 7001A (10')            | 5190                     | 9039CA        | 6121                      | 9105BB        |
| 1012A         | 7001A (20')            | 5200                     | 9037CA        | 6122                      | 9106BB        |
| 1601A         | 7240 (10')             | 5205                     | 9038CA        | 6123                      | 9107BB        |
| 1601A SH      | 7241 (10')             | 5221                     | 9025CA        | 6124                      | 9108BB        |
| 1602A         | 7240 (20')             | 5230                     | 9029CA        | 6125                      | 9109BB        |
| 1602A SH      | 7241 (20')             | 5304                     | 9044AF        | 7011                      | 9082BC        |
| 2001-2016     | 8200 SERIES            | 5315                     | 9045AF        | 7012                      | 9083BC        |
| 2001SS-2016SS | 8200SS SERIES          | 5345                     | 9046AF        | 7030                      | 9084BC        |
| 2101-2107     | 8350 SERIES            | 5361                     | 9047AF        | 7040                      | 9081BC        |
| 2302-2314     | 8300CTP/83000CT SERIES | 5371                     | 9048AF        | 7060                      | 9085BC        |
| 2401-2461     | 8250 SERIES            | 5410                     | 9040CA        | 7070                      | 9086BC        |
| 2501-2514     | 8500 SERIES            | 5412                     | 9042CA        | 7075                      | 9087BC        |
| 2600          | 8550                   | 5501                     | 9049UF        | 7251-7262                 | 9110HD SERIES |
| 3001-3011     | 8000 SERIES            | 5503                     | 9053UF        |                           |               |
| 3101-3111     | 8100 SERIES            | 5505                     | 9056UF        |                           |               |
| 3101SS-3111SS | 8100SX SERIES          | 5507                     | 9057UF        |                           |               |
| 3201-3209     | 8050 SERIES            | 5530                     | 9054UF        |                           |               |
| 5000-5004     | 9001FF SERIES          | 5521                     | 9055UF        |                           |               |
| 5005-5008     | 9002FF SERIES          | 5551                     | 9059ZF        |                           |               |
| 5011          | 9005FF                 | 5553                     | 9063ZF        |                           |               |
| 5012          | 9004FF                 | 5554                     | 9062ZF        |                           |               |
| 5013          | 9006FF                 | 5556                     | 9058ZF        |                           |               |
| 5015          | 9007FF                 | 5590                     | 9065ZF        |                           |               |
| 5019          | 9008FF                 | 5600                     | 9067WF        |                           |               |
| 5020          | 9009FF                 | 5601                     | 9068WF        |                           |               |

## Catalog Cross Reference Listing

### POWERSTRUT

CHANNEL DENOTED BY GRAY SHADING

| POWERSTRUT                                | EMPIRE     | POWERSTRUT                                | EMPIRE | POWERSTRUT                       | EMPIRE                |
|---|------------|---|--------|----------------------------------|-----------------------|
| PS100                                     | 7250       | PS 670                                    | 9077WF | PS 1100 SERIES                   | 8200                  |
| PS100 EH                                  | 7251       | PS 679                                    | 9057UF | PS 1100 SS SERIES                | 8200SS                |
| PS150                                     | 7230       | PS 685                                    | 9084BC | PS 1200 CPLT SERIES              | 8300CT/8300CTP SERIES |
| PS150 2T3                                 | 7240       | PS 686                                    | 9081BC | PS 1200 EG SERIES                | 8250                  |
| PS150 2T3 EH                              | 7241       | PS 687-A <small>(3 HOLES-2 SLOTS)</small> | 9054UF | PS 1300 SERIES                   | 8350                  |
| PS150 EH                                  | 7231       | PS 692                                    | 9065ZF | PS 1400 SERIES                   | 8500                  |
| PS200                                     | 7000       | PS 710                                    | 9051UF | PS 2112                          | 9021FF                |
| PS200 2T3                                 | 7000A      | PS 711                                    | 9061ZF | PS 2128-L                        | 9074WF                |
| PS200 EH                                  | 7001       | PS 712                                    | 9017FF | PS 2128-R                        | 9073WF                |
| PS200 EH 2T3                              | 7001A      | PS 714                                    | 9016FF | PS 2131-L                        | 9071WF                |
| PS210                                     | 7100       | PS 718                                    | 9011FF | PS 2131-R                        | 9070WF                |
| PS210 EH                                  | 7101       | PS 721                                    | 9055UF | PS 2190                          | 9020FF                |
| PS349 10' W/O                             | 7225 (10') | PS 732-10                                 | 9104BB | PS 2504                          | 9002FF                |
| PS349 20' W/O                             | 7225 (20') | PS 732-12                                 | 9105BB | PS 2545                          | 9025CA                |
| PS500                                     | 7200       | PS 732-14                                 | 9106BB | PS 2601                          | 9063ZF                |
| PS500 EH                                  | 7201       | PS 732-8                                  | 9103BB | PS 2648                          | 9056UF                |
| PS 601                                    | 9003FF     | PS 744                                    | 9012FF | PS 2651-A                        | 9086BC                |
| PS 602                                    | 9006FF     | PS 745                                    | 9028CA | PS 3033                          | 9093PB                |
| PS 603                                    | 9022CA     | PS 746                                    | 9035CA | PS 3040                          | 9088PB                |
| PS 604                                    | 9023CA     | PS 747                                    | 9018FF | PS 3049                          | 9029CA                |
| PS 605 <small>(2-5/16" X 3-1/2")</small>  | 9026CA     | PS 748 <small>(1-5/8" X 4-3/16")</small>  | 9036CA | PS 3064                          | 9095PB                |
| PS 606 <small>(1-5/8" X 4-3/16")</small>  | 9027CA     | PS 750                                    | 9015FF | PS 3126 SERIES                   | 9110HD                |
| PS 607 <small>(3-1/2" X 4-3/16")</small>  | 9030CA     | PS 756 <small>(1-5/8" X 3-1/2")</small>   | 9064ZF | PS 3373 <small>(4" X 4")</small> | 9034CA                |
| PS 608-L                                  | 9033CA     | PS 781-45 DEGREE                          | 9046AF | PS 3792                          | 8550                  |
| PS 608-R                                  | 9032CA     | PS 793-45 DEGREE                          | 9048AF | PS NS SERIES                     | 8000                  |
| PS 611                                    | 9062ZF     | PS 806                                    | 9024CA | PS NSS SERIES                    | 8000                  |
| PS 612                                    | 9060ZF     | PS 821                                    | 9078WF | PSRS SERIES                      | 8100                  |
| PS 613                                    | 9053UF     | PS 854                                    | 9019FF | PSSS SERIES                      | 8050                  |
| PS 614                                    | 9037CA     | PS 855-1                                  | 9085BC | PS TG SERIES                     | 8150                  |
| PS 615                                    | 9038CA     | PS 888                                    | 9007FF |                                  |                       |
| PS 616                                    | 9052UF     | PS 907                                    | 9082BC |                                  |                       |
| PS 617                                    | 9010FF     | PS 913                                    | 9080WF |                                  |                       |
| PS 618                                    | 9009FF     | PS 922-L                                  | 9068WF |                                  |                       |
| PS 619 SERIES                             | 9001FF     | PS 922-R                                  | 9067WF |                                  |                       |
| PS 620                                    | 9004FF     | PS 923                                    | 9076WF |                                  |                       |
| PS 624-45 DEGREE                          | 9047AF     | PS 925                                    | 9013FF |                                  |                       |
| PS 633-30 DEGREE                          | 9044AF     | PS 926-12                                 | 9040CA |                                  |                       |
| PS 633-45 DEGREE                          | 9045AF     | PS 926-18                                 | 9042CA |                                  |                       |
| PS 660 <small>(3-13/16" X 3-7/8")</small> | 9031CA     | PS 926-24                                 | 9043CA |                                  |                       |
| PS 665                                    | 9066WF     | PS 927                                    | 9039CA |                                  |                       |
| PS 666                                    | 9069WF     | PS 928                                    | 9059ZF |                                  |                       |
| PS 667                                    | 9072WF     | PS 929                                    | 9049UF |                                  |                       |
| PS 668                                    | 9075WF     | PS 978                                    | 9050UF |                                  |                       |
| PS 669                                    | 9079WF     | PS 998                                    | 9083BC |                                  |                       |

## Catalog Cross Reference Listing **SUPERSTRUT**

CHANNEL DENOTED BY GRAY SHADING

| <b>SUPERSTRUT</b>        | <b>EMPIRE</b> | <b>SUPERSTRUT</b>        | <b>EMPIRE</b>          | <b>SUPERSTRUT</b> | <b>EMPIRE</b> |
|--------------------------|---------------|--------------------------|------------------------|-------------------|---------------|
| A-1200                   | 7000          | AB-255                   | 9012FF                 | X-207             | 9007FF        |
| A-1200HS                 | 7001          | AB-257                   | 9015FF                 | X-208             | 9008FF        |
| A-1202                   | 7000A         | AB-261                   | 9019FF                 | X-299             | 9025CA        |
| A-1202HS                 | 7001A         | AB-263                   | 9020FF                 | 512               | 9081BC        |
| A-1400                   | 7100          | AB-265                   | 9018FF                 | 701 SERIES        | 8250 SERIES   |
| A-1400HS                 | 7101          | AB-274 (1-5/8" X 2-1/4") | 9035CA                 | 702 SERIES        | 8200 SERIES   |
| B-1400                   | 7200          | AB-299                   | 9024CA                 | 702SS             | 8200SS SERIES |
| B-1400HS                 | 7201          | AP-232                   | 9093PB                 | 703 SERIES        | 8350 SERIES   |
| C-302                    | 7225          | AP-232-SQ                | 9094PB                 |                   |               |
| E-1200                   | 7230          | AP-235                   | 9095PB                 |                   |               |
| E-1200HS                 | 7231          | AW-204                   | 9066WF                 |                   |               |
| E-1202                   | 7240          | AW-205-L                 | 9068WF                 |                   |               |
| E-1202HS                 | 7241          | AW-205-R                 | 9067WF                 |                   |               |
| H-1200                   | 7250          | AW-214                   | 9069WF                 |                   |               |
| H-1200HS                 | 7251          | AW-219                   | 9080WF                 |                   |               |
| A-100                    | 8100          | AW-220                   | 9076WF                 |                   |               |
| A-208                    | 9052UF        | AW-224                   | 9078WF                 |                   |               |
| A-209                    | 9062ZF        | AW-226                   | 9075WF                 |                   |               |
| A-210                    | 9053UF        | AW-228                   | 9079WF                 |                   |               |
| A-211                    | 9057UF        | B-100 SERIES             | 8050                   |                   |               |
| A-212                    | 9055UF        | B-209                    | 9059ZF                 |                   |               |
| A-217                    | 9072WF        | B-210                    | 9049UF                 |                   |               |
| A-218                    | 9077WF        | C-209                    | 9061ZF                 |                   |               |
| A-597                    | 9085BC        | C-210                    | 9051UF                 |                   |               |
| A-716 SERIES             | 8500          | C-708-U SERIES           | 9110HD                 |                   |               |
| AB-100 SERIES            | 8000          | CM-100                   | 8150 *                 |                   |               |
| AB-201 (1-5/8" X 2-1/4") | 9023CA        | CT-701                   | 8300CTP/83000CT SERIES |                   |               |
| AB-202 (1-7/8" X 2")     | 9022CA        | CZ-209                   | 9064ZF                 |                   |               |
| AB-203                   | 9027CA        | E-210                    | 9056UF                 |                   |               |
| AB-204                   | 9026CA        | EZ-209                   | 9063ZF                 |                   |               |
| AB-206                   | 9003FF        | N-205                    | 9031CA                 |                   |               |
| AB-207                   | 9006FF        | S-204                    | 9103BB                 |                   |               |
| AB-213                   | 9032CA        | S-205                    | 9104BB                 |                   |               |
| AB-214                   | 9033CA        | S-217                    | 9105BB                 |                   |               |
| AB-216 (3-1/2" X 4-1/8") | 9038CA        | S-218                    | 9106BB                 |                   |               |
| AB-219                   | 9011FF        | S-222                    | 9107BB                 |                   |               |
| AB-220                   | 9016FF        | S-226                    | 9108BB                 |                   |               |
| AB-225                   | 9047AF        | S-236                    | 9109BB                 |                   |               |
| AB-227                   | 9045AF        | S-716                    | 8550                   |                   |               |
| AB-239-2 (17")           | 9042CA        | U-501                    | 9086BC                 |                   |               |
| AB239-3 (25-1/2")        | 9043CA        | U-502                    | 9087BC                 |                   |               |
| AB-240 (7")              | 9010FF        | U-510                    | 9084BC                 |                   |               |
| AB-241 SERIES            | 9001FF SERIES | U-514                    | 9082BC                 |                   |               |
| AB-253                   | 9017FF        | U-514-A                  | 9083BC                 |                   |               |

\* SPECS DIFFER BUT PART IS  
FUNCTIONALLY EQUIVALENT

## Catalog Cross Reference Listing

### TOLCO

CHANNEL DENOTED BY GRAY SHADING

| TOLCO             | EMPIRE | TOLCO                   | EMPIRE | TOLCO        | EMPIRE |
|-------------------|--------|-------------------------|--------|--------------|--------|
| A12               | 7000   | F36                     | 9011FF | U24          | 9052UF |
| A12A              | 7000A  | F37                     | 9014FF | UNIV SERIES  | 8350   |
| A12AHS            | 7001A  | F38                     | 9021FF | W10 (R)      | 9067WF |
| A12HS             | 7001   | L08                     | 9024CA | W10(L)       | 9068WF |
| A14               | 7100   | L10 (1-5/8" X 2-1/4")   | 9023CA | W11 (L)      | 9074WF |
| A14HS             | 7101   | L11                     | 9022CA | W11 (R)      | 9073WF |
| B12 INSERT        | 7225   | L15                     | 9025CA | W12          | 9066WF |
| C14               | 7200   | L18                     | 9026CA | W13          | 9069WF |
| C14HS             | 7201   | L19 (1-7/8" X 3-7/8")   | 9028CA | W14          | 9072WF |
| D12               | 7230   | L20                     | 9027CA | W16          | 9076WF |
| D12A              | 7240   | L21                     | 9029CA | W17          | 9078WF |
| D12AHS            | 7241   | L22                     | 9030CA | W18          | 9080WF |
| D12HS             | 7231   | L23L                    | 9033CA | W19          | 9075WF |
| E12               | 7250   | L23R                    | 9032CA | W20          | 9077WF |
| E12HS             | 7251   | L23U (ONLY 6 HOLES)     | 9034CA | W21          | 9079WF |
| BC16 (A)          | 9085BC | L32                     | 9037CA | 2 STR SERIES | 9110HD |
| BC17 (A)          | 9086BC | L33 (3-1/2" X 4-1/8")   | 9038CA | Z25          | 9065ZF |
| BC17 (E)          | 9087BC | L34                     | 9036CA | Z10 (B)      | 9061ZF |
| BC18 (3/8")       | 9082BC | L40                     | 9039CA | Z10 (C)      | 9059ZF |
| BC18 (1/2")       | 9083BC | L43 (1-5/8" X 2-1/4")   | 9035CA | Z10 (D)      | 9063ZF |
| BC20              | 9081BC | L44 (12")               | 9040CA |              |        |
| BC21              | 9084BC | L44 (18")               | 9042CA |              |        |
| BR11 (8-1/2")     | 9103BB | L45-30 DEGREE           | 9044AF |              |        |
| BR11 (10-1/2")    | 9104BB | L45-45 DEGREE           | 9045AF |              |        |
| BR11 (12-1/2")    | 9105BB | L46-45 DEGREE           | 9046AF |              |        |
| BR11 (14-1/2")    | 9106BB | L47-45 DEGREE           | 9047AF |              |        |
| BR12              | 9107BB | L48-45 DEGREE           | 9048AF |              |        |
| CUSH CLAMP SERIES | 8500   | NUT SERIES              | 8000   |              |        |
| F09               | 9003FF | OD SERIES               | 8250   |              |        |
| F11-F12           | 9002FF | P10SQ                   | 9092PB |              |        |
| F14-F18           | 9001FF | P11                     | 9093PB |              |        |
| F20               | 9006FF | P11F                    | 9090PB |              |        |
| F22               | 9004FF | P11SQ                   | 9094PB |              |        |
| F23               | 9007FF | P13F (3-1/8" X 8" BASE) | 9091PB |              |        |
| F25               | 9016FF | P13                     | 9095PB |              |        |
| F26               | 9009FF | P15                     | 9088PB |              |        |
| F27               | 9010FF | RIGD SERIES             | 8200   |              |        |
| F28               | 9017FF | SPRA SERIES             | 8100   |              |        |
| F30               | 9013FF | SPRC SERIES             | 8050   |              |        |
| F31               | 9018FF | TSN SERIES              | 8150   |              |        |
| F32               | 9019FF | U11                     | 9049UF |              |        |
| F33               | 9015FF | U12                     | 9056UF |              |        |
| F34               | 9020FF | U13 (7-1/4")            | 9054UF |              |        |
| F35               | 9012FF | U16                     | 9057UF |              |        |

## Catalog Cross Reference Listing

### UNISTRUT

CHANNEL DENOTED BY GRAY SHADING

| <b>UNISTRUT</b>     | <b>EMPIRE</b> | <b>UNISTRUT</b>         | <b>EMPIRE</b>         | <b>UNISTRUT</b>         | <b>EMPIRE</b>         |
|---------------------|---------------|-------------------------|-----------------------|-------------------------|-----------------------|
| P1000               | 7000          | P1068 (1-5/8" X 2-1/4") | 9023CA                | P2027CC                 | 8300CTP/8300CT SERIES |
| P1000T              | 7001          | P1109- P1126            | 8200                  | P2029CC                 | 8300CTP/8300CT SERIES |
| P1001               | 7000A         | P1109SS-P1126ASS        | 8200SS                | P2031CC                 | 8300CTP/8300CT SERIES |
| P1001T              | 7001A         | P1117CC                 | 8300CTP/8300CT SERIES | P2033CC                 | 8300CTP/8300CT SERIES |
| P1100               | 7100          | P1117E-P1120E           | 8250 SERIES           | P2035CC                 | 8300CTP/8300CT SERIES |
| P1100T              | 7101          | P1118CC                 | 8300CTP/8300CT SERIES | P2039CC                 | 8300CTP/8300CT SERIES |
| P3265 (10 FT)       | 7225          | P1186                   | 9047AF                | P2043CC                 | 8300CTP/8300CT SERIES |
| P3270 (20 FT)       | 7225          | P1211                   | 8350 SERIES           | P2047CC                 | 8300CTP/8300CT SERIES |
| P4100               | 7200          | P1212                   | 8350 SERIES           | P2051CC                 | 8300CTP/8300CT SERIES |
| P4100T              | 7201          | P1213                   | 8350 SERIES           | P2055CC                 | 8300CTP/8300CT SERIES |
| P5000               | 7250          | P1214                   | 8350 SERIES           | P2063CC                 | 8300CTP/8300CT SERIES |
| P5000T              | 7251          | P1215                   | 8350 SERIES           | P2070-61CC              | 8300CTP/8300CT SERIES |
| P5500               | 7230          | P1217                   | 8350 SERIES           | P2070-83                | 8250 SERIES           |
| P5500T              | 7231          | P1272S                  | 9082BC                | P2072A                  | 9093PB                |
| P5501               | 7240          | P1325                   | 9030CA                | P2073A                  | 9095PB                |
| P5501T              | 7241          | P1326                   | 9027CA                | P2101                   | 9044AF                |
| 004T008             | 8500 SERIES   | P1334                   | 9012FF                | P2223                   | 9066WF                |
| 006T010             | 8500 SERIES   | P1346                   | 9028CA                | P2224                   | 9069WF                |
| 008T012             | 8500 SERIES   | P1356                   | 9013FF                | P2225                   | 9072WF                |
| 010T014             | 8500 SERIES   | P1357 (1-5/8" X 2-1/4") | 9035CA                | P2227                   | 9075WF                |
| 012T016             | 8500 SERIES   | P1358                   | 9018FF                | P2228                   | 9077WF                |
| 014T018             | 8500 SERIES   | P1359                   | 9036CA                | P2229                   | 9079WF                |
| 016T020             | 8500 SERIES   | P1377                   | 9052UF                | P2235 (3-1/2" X 4-1/8") | 9038CA                |
| 018T022             | 8500 SERIES   | P1379S                  | 9084BC                | P2324                   | 9010FF                |
| 020T024             | 8500 SERIES   | P1380                   | 9015FF                | P2325                   | 9009FF                |
| 022T026             | 8500 SERIES   | P1380 A                 | 9014FF                | P2341 L                 | 9068WF                |
| 024N028             | 8500 SERIES   | P1386                   | 9081BC                | P2341 R                 | 9067WF                |
| 026N030             | 8500 SERIES   | P1430E                  | 8250 SERIES           | P2343-L                 | 9074WF                |
| 028N032             | 8500 SERIES   | P1453                   | 9064ZF                | P2343-R                 | 9073WF                |
| 030N034             | 8500 SERIES   | P1454                   | 9058ZF                | P2345                   | 9076WF                |
| 032N036             | 8500 SERIES   | P1458                   | 9026CA                | P2346                   | 9078WF                |
| 034N040             | 8500 SERIES   | P1546                   | 9045AF                | P2347                   | 9080WF                |
| 038N044             | 8500 SERIES   | P1579                   | 9037CA                | P2471 (3/4")            | 9001FF SERIES         |
| 042N048             | 8500 SERIES   | P1726                   | 9019FF                | P2484 (4" X 4")         | 9032CA                |
| 050N056             | 8500 SERIES   | P1728                   | 9039CA                | P2484W (4" X 4")        | 9033CA                |
| 066N074             | 8500 SERIES   | P1737                   | 9057UF                | P2490 (7/8")            | 9001FF SERIES         |
| P1006-P1024         | 8100          | P1747                   | 9029CA                | P2558 SERIES            | 9110HD                |
| P1012               | 8000 SERIES   | P1750                   | 9025CA                | P2600                   | 8550                  |
| P1023               | 8000 SERIES   | P1769                   | 9103BB                | P2626 (2-1/8" X 2-1/8") | 9024CA                |
| P1024               | 8000 SERIES   | P1771                   | 9104BB                | P2785                   | 9086BC                |
| P1026 (1-7/8" X 2") | 9022CA        | P1773                   | 9105BB                | P2786                   | 9087BC                |
| P1028               | 9017FF        | P1775                   | 9106BB                | P2863 (3/8")            | 9002FF SERIES         |
| P1031               | 9016FF        | P1777                   | 9107BB                | P2864 (1/2")            | 9002FF SERIES         |
| P1036               | 9011FF        | P1796S                  | 9085BC                | P3006-P3010             | 8000 SERIES           |
| P1043A              | 9055UF        | P1873                   | 9020FF                | P3045                   | 9061ZF                |
| P1045               | 9062ZF        | P1887                   | 9088PB                | P3047                   | 9051UF                |
| P1047               | 9053UF        | P1924                   | 9004FF                | P4006-P4010             | 8050 SERIES           |
| P1048               | 9054UF        | P1941                   | 9008FF                | P4012S                  | 8050 SERIES           |
| P1063 (3/8")        | 9001FF SERIES | P1950                   | 9021FF                | P4045                   | 9059ZF                |
| P1064 (1/2")        | 9001FF SERIES | P1964 (5/8")            | 9001FF SERIES         | P4047                   | 9049UF                |
| P1065               | 9003FF        | P1985S                  | 9083BC                | P5545                   | 9063ZF                |
| P1066               | 9006FF        | P2024E-2070-70E         | 8250 SERIES           | P5547                   | 9056UF                |
| P1067               | 9007FF        | P2026CC                 | 8300CTP/8300CT SERIES |                         |                       |

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