This section offers a full selection of fittings and accessories to complete our strut system. Fittings are made from hot rolled, pickled and oiled plate or strip steel in accordance with ASTM A1018 33,000 PSI min. yield, unless noted.

**Dimensions**
The following dimensions apply to all fittings except as noted:

**Materials & Finishes (Unless otherwise noted)**

<table>
<thead>
<tr>
<th>Finish Code</th>
<th>Finish</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLN</td>
<td>Plain</td>
<td>ASTM A1018 33,000 PSI min. yield</td>
</tr>
<tr>
<td>ZN</td>
<td>Electro-Plated Zinc</td>
<td>ASTM B633 SC3 Type III or ASTM A653</td>
</tr>
<tr>
<td>GRN</td>
<td>DURA GREEN™</td>
<td></td>
</tr>
<tr>
<td>HDG</td>
<td>Hot-Dipped Galvanized</td>
<td>ASTM A123</td>
</tr>
<tr>
<td>SS4</td>
<td>Stainless Steel Type 304</td>
<td>ASTM A240</td>
</tr>
<tr>
<td>SS6</td>
<td>Stainless Steel Type 316</td>
<td>ASTM A240</td>
</tr>
<tr>
<td>AL</td>
<td>Aluminum</td>
<td>ASTM B209</td>
</tr>
</tbody>
</table>

Note: A minimum order may apply on special material and finishes.

**Hardware**
Nuts and bolts are not included with the fittings and must be ordered separately, unless noted.

**Pre-Assembled Fittings**
Some fittings are available with hex head cap screws and channel nuts pre-assembled. These fittings and finishes will be flagged using the following symbol.

**Metric**
Metric dimensions are shown in parentheses. Unless noted, all metric dimensions are in millimeters.

**Load Data**
The load data published includes safety factor of 2.5 when used with 12 ga. (2.6) channel. Safety factor = ratio of ultimate load to the design load.

Use 1/2"-13 x 7/8" hex head cap screws and 1/2"-13 (N225 or TN225) channel nuts for the rated results.

Note: See page 277 Design Load Data for typical channel - fitting connections.

**Recommended Bolt Torque**

<table>
<thead>
<tr>
<th>Bolt Size</th>
<th>1/4&quot;-20</th>
<th>5/16&quot;-18</th>
<th>3/8&quot;-16</th>
<th>1/2&quot;-13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foot/Lbs.</td>
<td>6</td>
<td>11</td>
<td>19</td>
<td>50</td>
</tr>
<tr>
<td>Nm</td>
<td>8</td>
<td>15</td>
<td>26</td>
<td>68</td>
</tr>
</tbody>
</table>

See chart on page 154 for setscrew torque.

**4Dimension™ Strut System Compatible**
These fittings and finishes will be flagged using the following symbol.
### B200-B202-2
- Standard finishes: ZN, GRN, HDG, SS4, SS6, AL

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A In. mm</th>
<th>Bolt Size Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>B200</td>
<td>3/8” (9.5)</td>
<td>5/16” (7.9)</td>
</tr>
<tr>
<td>B201</td>
<td>7/16” (11.1)</td>
<td>3/8” (9.5)</td>
</tr>
<tr>
<td>B202</td>
<td>9/16” (14.2)</td>
<td>1/2” (12.7)</td>
</tr>
<tr>
<td>B202-1</td>
<td>11/16” (17.4)</td>
<td>5/8” (15.9)</td>
</tr>
<tr>
<td>B202-2</td>
<td>13/16” (20.6)</td>
<td>3/4” (19.0)</td>
</tr>
<tr>
<td>B202-3</td>
<td>15/16” (23.8)</td>
<td>7/8” (22.2)</td>
</tr>
</tbody>
</table>

### B200D-B202-2D
- Standard finishes: ZN, GRN, HDG, SS4, SS6, AL

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A In. mm</th>
<th>Bolt Size Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>B200D</td>
<td>3/8” (9.5)</td>
<td>5/16” (7.9)</td>
</tr>
<tr>
<td>B201D</td>
<td>7/16” (11.1)</td>
<td>3/8” (9.5)</td>
</tr>
<tr>
<td>B202D</td>
<td>9/16” (14.2)</td>
<td>1/2” (12.7)</td>
</tr>
<tr>
<td>B202-1D</td>
<td>11/16” (17.4)</td>
<td>5/8” (15.9)</td>
</tr>
<tr>
<td>B202-2D</td>
<td>13/16” (20.6)</td>
<td>3/4” (19.0)</td>
</tr>
</tbody>
</table>

### B340 Two Hole Splice Plate
- Standard finishes: ZN, GRN
- Wt./C 34 Lbs. (15.4 kg)

### B341 Four Hole Splice Plate
- Standard finishes: ZN, GRN, HDG
- Wt./C 76 Lbs. (34.5 kg)

### B342 Five Hole Splice Plate
- Standard finishes: ZN, GRN
- Wt./C 96 Lbs. (43.5 kg)

### B528 Two Hole Splice Plate
- Standard finishes: ZN, GRN
- Wt./C 50 Lbs. (22.7 kg)

### B557 Three Hole Splice Plate
- Standard finishes: ZN, GRN
- Wt./C 50 Lbs. (22.7 kg)

### B129 Two Hole Splice Plate
- Standard finishes: ZN, GRN
- Wt./C 37 Lbs. (16.8 kg)

### B141 Three Hole Splice Plate
- Standard finishes: ZN, GRN
- Wt./C 55 Lbs. (24.9 kg)

### Reference page 106 for general fitting and standard finish specifications.
**Flat Plate Fittings**

**B138**
**Two Hole Swivel Plate**
- Standard finishes: ZN, GRN
- Wt./C 48 Lbs. (21.8 kg)

**B139**
**Three Hole Swivel Plate**
- Standard finishes: ZN, GRN
- Wt./C 69 Lbs. (31.3 kg)

**B504**
**Four Hole Splice Plate**
- Standard finishes: ZN, GRN
- Wt./C 73 Lbs. (33.1 kg)

**B140**
**Three Hole Corner Plate**
- Standard finishes: ZN, GRN, HDG, SS4
- Wt./C 56 Lbs. (25.4 kg)

**B143**
**Four Hole Corner Plate**
- Standard finishes: ZN, GRN, HDG, SS4
- Wt./C 75 Lbs. (34.0 kg)

**B132**
**Five Hole Cross Plate**
- Standard finishes: ZN, GRN, HDG
- Wt./C 100 Lbs. (45.3 kg)

**B135**
**Three Hole Corner Gusset Plate**
- Standard finishes: ZN, GRN
- Wt./C 70 Lbs. (31.7 kg)

**B142**
**Four Hole Corner Gusset Plate**
- Standard finishes: ZN, GRN, HDG
- Wt./C 102 Lbs. (46.2 kg)

---

PA  Pre-assembled fitting
PA  Dimension compatible fitting

Reference page 106 for general fitting and standard finish specifications.
### B337
**Four Hole Corner Gusset Plate**
- Standard finishes: ZN, GRN
- Wt./C 273 Lbs. (123.8 kg)

### B556
**Five Hole Corner Gusset Plate**
- Standard finishes: ZN, GRN
- Wt./C 145 Lbs. (65.8 kg)

### B337
**Three Hole Tee Gusset Plate**
- Standard finishes: ZN, GRN
- Wt./C 70 Lbs. (31.7 kg)

### B432
**Four Hole Tee Gusset Plate**
- Standard finishes: ZN, GRN
- Wt./C 100 Lbs. (45.3 kg)

### B136
**Four Hole Tee Gusset Plate**
- Standard finishes: ZN, GRN, HDG
- Wt./C 100 Lbs. (45.3 kg)

### B532
**Five Hole Tee Gusset Plate**
- Standard finishes: ZN, GRN
- Wt./C 143 Lbs. (64.8 kg)

### B339
**Six Hole Tee Gusset Plate**
- Standard finishes: ZN, GRN
- Wt./C 149 Lbs. (67.6 kg)

### B334
**Seven Hole Cross Gusset Plate**
- Standard finishes: ZN, GRN
- Wt./C 232 Lbs. (105.2 kg)

---

**Reference page 106 for general fitting and standard finish specifications.**

---

**PA** Pre-assembled fitting

**4D** Dimension compatible fitting

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**B-Line series strut systems**

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Eaton
90° Angle Fittings

B420-378
One Hole Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 60 Lbs. (27.2 kg)

B420-578
One Hole Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 85 Lbs. (38.5 kg)

B420-778
One Hole Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 107 Lbs. (48.5 kg)

B420-978
One Hole Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 129 Lbs. (58.5 kg)

B101
Two Hole Corner Angle
- Standard finishes: ZN, GRN, HDG, SS4, AL
- Wt./C 37 Lbs. (16.8 kg)

B230
Two Hole Corner Angle
- Standard finishes: ZN, GRN, HDG, SS4, AL
- Wt./C 37 Lbs. (16.8 kg)

B231
Two Hole “No-Twist” Corner Angle
- Standard finishes: ZN, GRN, HDG
- Wt./C 41 Lbs. (18.6 kg)

B359
Two Hole Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 48 Lbs. (21.8 kg)

B360
Two Hole Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 53 Lbs. (24.0 kg)

Reference page 106 for general fitting and standard finish specifications.
B-Line series strut systems

B361 Two Hole Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 60 Lbs. (27.2 kg)

B102 Three Hole Corner Angle
- Standard finishes: ZN, GRN, HDG, SS4
- Wt./C 56 Lbs. (25.4 kg)

B103 Three Hole Corner Angle
- Standard finishes: ZN, GRN, HDG, SS4
- Wt./C 56 Lbs. (25.4 kg)

B232 Three Hole Corner Angle
- Standard finishes: ZN, GRN, HDG, SS4
- Wt./C 56 Lbs. (25.4 kg)

B374 Three Hole Corner Angle
- Standard finishes: ZN, GRN, HDG
- Wt./C 56 Lbs. (25.4 kg)

B529 Three Hole Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 60 Lbs. (27.2 kg)

B104 Four Hole Corner Angle
- Standard finishes: ZN, GRN, HDG, SS4, SS6, AL
- Wt./C 78 Lbs. (35.4 kg)

B115 Four Hole Corner Angle
- Standard finishes: ZN, GRN, HDG, SS4, AL
- Wt./C 76 Lbs. (34.5 kg)

B558 Four Hole Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 73 Lbs. (33.1 kg)

Reference page 106 for general fitting and standard finish specifications.
90° Angle Fittings

B236R
Three Hole (Right Hand) Offset Bent Angle
- 1 5/8” (41.3) from center to center of the holes that are shown with bolt heads
- Standard finishes: ZN, GRN
- Wt./C 65 Lbs. (29.5 kg)

B236L
Three Hole (Left Hand) Offset Bent Angle
- Standard finishes: ZN, GRN
- Wt./C 65 Lbs. (29.5 kg)

B235R
Three Hole (Right Hand) Offset Bent Angle
- 1 5/8” (41.3) from center to center of the holes that are shown with bolt heads
- Standard finishes: ZN, GRN
- Wt./C 53 Lbs. (24.0 kg)

B235L
Three Hole Offset Bent Tee
- Standard finishes: ZN, GRN
- Wt./C 71 Lbs. (32.2 kg)

B357
Four Hole Offset Bent Tee
- Standard finishes: ZN, GRN
- Wt./C 77 Lbs. (34.9 kg)

B238R
Four Hole (Right Hand) Offset Bent Tee
- Standard finishes: ZN, GRN
- Wt./C 76 Lbs. (34.5 kg)

B238L
Four Hole (Left Hand) Offset Bent Tee
- Standard finishes: ZN, GRN
- Wt./C 76 Lbs. (34.5 kg)

B239
Five Hole Offset Bent Tee
- Standard finishes: ZN, GRN
- Wt./C 96 Lbs. (43.5 kg)

Reference page 106 for general fitting and standard finish specifications.
**B844**
Universal Shelf Bracket
- Standard finishes: ZN, GRN, HDG, SS4
- Wt./C 132 Lbs. (59.9 kg)

**B844W**
Universal Shelf Bracket - Welded
- Standard finishes: ZN, GRN
- Wt./C 134 Lbs. (60.8 kg)

**B888W**
Universal Shelf Bracket - Welded
- Standard finishes: ZN, GRN
- Wt./C 197 Lbs. (89.4 kg)

**B234R**
Four Hole (Right Hand) Corner Gusset
- Standard finishes: ZN, GRN, HDG
- Wt./C 100 Lbs. (45.3 kg)

**B234L**
Four Hole (Left Hand) Corner Gusset
- Standard finishes: ZN, GRN, HDG
- Wt./C 100 Lbs. (45.3 kg)

**B134R**
Four Hole (Right Hand) Corner Gusset
- Standard finishes: ZN, GRN
- Wt./C 100 Lbs. (45.3 kg)

**B134L**
Four Hole (Left Hand) Corner Gusset
- Standard finishes: ZN, GRN
- Wt./C 100 Lbs. (45.3 kg)

**B125**
Three Hole Gussetted Shelf Angle
- Standard finishes: ZN, GRN
- Wt./C 67 Lbs. (30.4 kg)

**B118**
Four Hole Gussetted Shelf Angle
- Standard finishes: ZN, GRN, HDG
- Wt./C 102 Lbs. (46.2 kg)

Reference page 106 for general fitting and standard finish specifications.
**90° Angle Fittings**

**B485**
Four Hole Gussetted Shelf Angle
- Standard finishes: ZN, GRN
- Wt./C 148 Lbs. (67.1 kg)

**B533**
Five Hole Gussetted Shelf Angle
- Standard finishes: ZN, GRN
- Wt./C 141 Lbs. (63.9 kg)

**B126**
Four Hole Gussetted Three Way Shelf Angle
- Standard finishes: ZN, GRN
- Wt./C 101 Lbs. (45.8 kg)

**B127**
Five Hole Gussetted Three Way Shelf Angle
- Standard finishes: ZN, GRN
- Wt./C 135 Lbs. (61.2 kg)

**B503R**
Six Hole (Right Hand) Gussetted Corner Connection
- Standard finishes: ZN, GRN
- Wt./C 229 Lbs. (103.9 kg)

**B503L**
Six Hole (Left Hand) Gussetted Corner Connection
- Standard finishes: ZN, GRN
- Wt./C 229 Lbs. (103.9 kg)

**B663**
Seven Hole Gussetted Corner Connection
- Standard finishes: ZN, GRN
- Wt./C 289 Lbs. (131.1 kg)

**B371**
Two Hole Adjustable Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 41 Lbs. (18.6 kg)

**B372**
Two Hole Adjustable Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 38 Lbs. (17.2 kg)

---

Reference page 106 for general fitting and standard finish specifications.
90° Angle Fittings

B496
Two Hole Adjustable Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 85 Lbs. (38.5 kg)

B496-1
Two Hole Adjustable Corner Angle
- Standard finishes: ZN, GRN, HDG
- Wt./C 58 Lbs. (26.3 kg)

B371-2
Three Hole Adjustable Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 61 Lbs. (27.6 kg)

B104SH
Three Hole Adjustable Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 68 Lbs. (30.8 kg)

B461
Two Hole Adjustable Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 87 Lbs. (39.4 kg)

B112
Four Hole Adjustable Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 180 Lbs. (81.6 kg)

B113
Four Hole Adjustable Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 256 Lbs. (116.1 kg)

B109S
Two Hole Tapped Corner Angle
- Standard finishes: ZN, GRN
- Wt./C 33 Lbs. (14.9 kg)

B521
Two Hole Bus Duct Angle
- Standard finishes: ZN, GRN
- Wt./C 37 Lbs. (16.8 kg)

Reference page 106 for general fitting and standard finish specifications.
Angular Fittings

B147-B152
Two Hole Open Angle
• Standard finishes: ZN, GRN

B162-B165
Two Hole Open Angle
• Standard finishes: ZN, GRN

B154
Two Hole Open Angle
• Standard finishes: ZN, GRN, SS4
• Wt./C 58 Lbs. (26.3 kg)

B243-B253
Four Hole Open Angle
• Standard finishes: ZN, GRN

B322-B332
Two Hole Open Short Angle
• Standard finishes: ZN, GRN

Part No. A Wt./C Lbs. kg
B147 82 1/2° 83 (37.7)
B148 75° 58 (26.3)
B149 67 1/2° 63 (28.6)
B150 60° 58 (26.3)
B151 52 1/2° 58 (26.3)
B152 37 1/2° 58 (26.3)

Part No. A Wt./C Lbs. kg
B162 30° 59 (26.7)
B163 22 1/2° 35 (15.9)
B164 15° 35 (15.9)
B165 7 1/2° 35 (15.9)

Part No. A Wt./C Lbs. kg
B243 7 1/2° 77 (34.9)
B244 15° 77 (34.9)
B245 22 1/2° 77 (34.9)
B246 30° 77 (34.9)
B247 37 1/2° 77 (34.9)
B248 45° 77 (34.9)
B249 52 1/2° 77 (34.9)
B250 60° 77 (34.9)
B251 67 1/2° 77 (34.9)
B252 75° 77 (34.9)
B253 82 1/2° 77 (34.9)

Part No. A Wt./C Lbs. kg
B243 7 1/2° 77 (34.9)
B244 15° 77 (34.9)
B245 22 1/2° 77 (34.9)
B246 30° 77 (34.9)
B247 37 1/2° 77 (34.9)
B248 45° 77 (34.9)
B249 52 1/2° 77 (34.9)
B250 60° 77 (34.9)
B251 67 1/2° 77 (34.9)
B252 75° 77 (34.9)
B253 82 1/2° 77 (34.9)

Part No. A Wt./C Lbs. kg
B322 7 1/2° 77 (34.9)
B323 15° 77 (34.9)
B324 22 1/2° 77 (34.9)
B325 30° 77 (34.9)
B326 37 1/2° 77 (34.9)
B327 45° 77 (34.9)
B328 52 1/2° 77 (34.9)
B329 60° 77 (34.9)
B330 67 1/2° 77 (34.9)
B331 75° 77 (34.9)
B332 82 1/2° 77 (34.9)

B-Line series strut systems

Reference page 106 for general fitting and standard finish specifications.
Angular Fittings

**B155 - B161**
Two Hole Closed Angle
- Standard finishes: ZN, GRN
- Wt./C 63 Lbs. (28.6 kg)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>B156</td>
<td>82(\frac{1}{2})°</td>
<td>56 (25.4)</td>
</tr>
<tr>
<td>B157</td>
<td>75°</td>
<td></td>
</tr>
<tr>
<td>B158</td>
<td>67(\frac{1}{2})°</td>
<td></td>
</tr>
<tr>
<td>B159</td>
<td>60°</td>
<td></td>
</tr>
<tr>
<td>B160</td>
<td>52(\frac{1}{2})°</td>
<td></td>
</tr>
<tr>
<td>B161</td>
<td>37(\frac{1}{2})°</td>
<td></td>
</tr>
</tbody>
</table>

**B363 - B369**
Four Hole Closed Angle
- Standard finishes: ZN, GRN

**B335-2 SERIES**
Three Hole Adjustable Hinge
- Standard finishes: ZN, GRN

**Part No.**

<table>
<thead>
<tr>
<th>Hole Size H</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>7/16” (11.1)</td>
<td>96 (43.2)</td>
</tr>
<tr>
<td>9/16” (14.3)</td>
<td>94 (42.3)</td>
</tr>
<tr>
<td>11/16” (17.4)</td>
<td>92 (41.4)</td>
</tr>
<tr>
<td>13/16” (20.6)</td>
<td>90 (40.5)</td>
</tr>
</tbody>
</table>

**B335**
Four Hole Adjustable Hinge
- Standard finishes: ZN, GRN
- Wt./C 110 Lbs. (49.9 kg)

**B335V**
Three Hole Half Hinge
- Standard finishes: ZN, GRN

<table>
<thead>
<tr>
<th>Part No. &amp; Size</th>
<th>Hole Size H</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>B335V-1/2</td>
<td>9/16” (14.3)</td>
<td>53 (24.1)</td>
</tr>
<tr>
<td>B335V-5/8</td>
<td>11/16” (17.4)</td>
<td>54 (24.5)</td>
</tr>
<tr>
<td>B335V-3/4</td>
<td>13/16” (20.6)</td>
<td>55 (24.9)</td>
</tr>
</tbody>
</table>

**B335-1**
Two Hole Adjustable Hinge
- Standard finishes: ZN, GRN
- Wt./C 78 Lbs. (35.4 kg)

**PA** Pre-assembled fitting

Reference page 106 for general fitting and standard finish specifications.

B-Line series strut systems

Eaton
Angular Fittings

B634
Single Channel Adjustable Brace
- Standard finishes: ZN, GRN
- Wt./C 306 Lbs. (138.8 kg)

B635
Double Channel Adjustable Brace
- Standard finishes: ZN, GRN
- Wt./C 518 Lbs. (234.9 kg)

B650 SERIES
Seismic Retrofit Bracket
- Allows installer to easily brace existing trapeze supports.
- Includes: Bracket, B129 plate, & key. Hardware sold separately.
- Standard finish: ZN, GRN

Strut Fittings
Reference page 106 for general fitting and standard finish specifications.

Eaton

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B-Line series strut systems
**Miscellaneous Seismic Fittings**

- **Fig. 75**  
  **Swivel Attachment**  
  See page 89 for product information

- **SC228**  
  **Hanger Rod Stiffener**  
  See page 91 for product information

- **Fig. 98**  
  **Rod Stiffener**  
  See page 91 for product information

- **Fig. 98B**  
  **Rod Stiffener with Break-Off Bolt Head**  
  See page 91 for product information

- **Fig. 69**  
  **Retaining Strap**  
  See page 156 for product information

- **Fig. 69R**  
  **Retrofit Retaining Strap**  
  See page 156 for product information

- **Fig. 65**  
  **Reversible Steel C-Type Beam Clamp - 3/4” (19.0mm) Throat Opening**  
  See page 157 for product information

- **Fig. 65XT**  
  **Reversible C-Type Beam Clamp**  
  See page 157 for product information

- **Fig. 66**  
  **Reversible Steel C-Type Beam Clamp - 1 1/4” (31.7mm) Throat Opening**  
  See page 157 for product information

Reference page 106 for general fitting and standard finish specifications.
**TOLCO™ Fig. 825 - Bar Joist Sway Brace Attachment**

**Size Range:** One size accommodates all Fig. 900 Series sway brace attachments. Maximum Horizontal Design Load 2015 lbs (8.96kN).

**Material:** Steel

**Function:** To attach sway bracing and hanger assemblies to steel open web structural members.

**Features:** This product’s design incorporates a concentric attachment point which is critical to the performance of structural seismic connections. NFPA 13 indicates the importance of concentric loading of connections and fasteners. Permits secure non-friction connection without drilling or welding. Unique design reinforces point of connection to joist. Break off head set screw design assures verification of proper installation torque (min. 31 ft.-lbs.).

**Approvals:** Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Approved by Factory Mutual Engineering (FM).

**Installation Instructions:** Fig. 825 is the structural attachment component of a longitudinal or lateral sway brace assembly. It is intended to be combined with a TOLCO transitional attachment, ‘bracing pipe’ and a TOLCO ‘braced pipe’ attachment, to form a complete bracing assembly. NFPA 13 and/or OSHPD guidelines should be followed.

**To Install:** Place the Fig. 825 on the steel beam, tighten the cone point set screws until heads break off. Attach other TOLCO transitional attachment fitting, Fig. 909, 910, 980 or 986. Transitional fitting attachment can pivot for adjustment to proper brace angle.

**Finish:** Plain, Electro-Galvanized and HDG

**Approx. Wt./100:** 247.5 Lbs. (112.2kg)

**Order By:** Figure number and finish

US Patent #6,098,942,
Canada Patent #2,286,659

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**Max. Horizontal Design Load (UL)**

2015 lbs. (8.96kN)

UL Listed as Hanger Attachment for 6” (150mm) Pipe at Maximum Spacing

<table>
<thead>
<tr>
<th>Maximum Perpendicular to Structural Member</th>
<th>Max. Horizontal Design Loads (FM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8” Thick Flange</td>
<td>30°-44° lbs. / (kN)</td>
</tr>
<tr>
<td>990 (4.40)</td>
<td>1360 (6.05)</td>
</tr>
<tr>
<td>Maximum Parallel to Structural Member</td>
<td>460 (2.04)</td>
</tr>
</tbody>
</table>

Eaton’s B-Line series seismic bracing components are designed to be compatible only with other B-Line series bracing components, resulting in a listed seismic bracing assembly. Eaton B-Line Division warranty for seismic bracing components will be the warranty provided in Eaton B-Line Division standard terms and conditions of sale made available by Eaton, except that, in addition to the other exclusions from Eaton B-Line Division warranty, Eaton makes no warranty relating to B-Line series seismic bracing components that are combined with products not provided by Eaton.

Reference page 106 for general fitting and standard finish specifications.
TOLCO™ Fig. 825A - Bar Joist Sway Brace Attachment

Size Range: One size accommodates all Fig. 900 Series sway brace attachments. Maximum Horizontal Design Load 1600 lbs (7.11kN).

Material: Steel

Function: To attach sway bracing to steel open web structural members.

Features: This product’s design incorporates a concentric attachment point which is critical to the performance of structural seismic connections. NFPA 13 indicates the importance of concentric loading of connections and fasteners. Permits secure non-friction connection without drilling or welding. Unique design reinforces point of connection to joist. Break off head bolt design assures verification of proper installation.

Approvals: Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). For additional load, spacing and placement information relating to OSHPD projects, please refer to the TOLCO Seismic Restraint Systems Guidelines.

Installation Instructions: Fig. 825A is the structural attachment component of a longitudinal or lateral sway brace assembly. It is intended to be combined with a TOLCO transitional attachment, "bracing pipe" and a TOLCO "braced pipe" attachment to form a complete bracing assembly. NFPA 13 and/or OSHPD guidelines should be followed.

To Install: Place the Fig. 825A on the steel beam, tighten the cone point set screws until heads break off. Attach other TOLCO transitional attachment fitting, Fig. 909, 910, 980 or 986. Transitional fitting attachment can pivot for adjustment to proper brace angle.

Finish: Plain or Electro-Galvanized

Approx. Wt./100: 154.5 Lbs. (70.1kg)

Order By: Figure number and finish Patent #6,098,942

Eaton’s B-Line series seismic bracing components are designed to be compatible only with other B-Line series bracing components, resulting in a listed seismic bracing assembly. Eaton B-Line Division warranty for seismic bracing components will be the warranty provided in Eaton B-Line Division standard terms and conditions of sale made available by Eaton, except that, in addition to the other exclusions from Eaton B-Line Division warranty, Eaton makes no warranty relating to B-Line series seismic bracing components that are combined with products not provided by Eaton.

Reference page 106 for general fitting and standard finish specifications.
**TOLCO™ Fig. 828 - Universal Sway Brace Attachment**

**Size Range:** One size accommodates all Fig. 900 Series sway brace attachments. Fits from \( \frac{3}{4} \)" (19.0mm) to \( \frac{3}{4} \)" (22.2mm) thick steel structure. For thicknesses less than \( \frac{3}{4} \)" (9.4mm) refer to Fig. 825 and Fig. 825A.

**Material:** Steel

**Function:** To attach sway bracing to various types of steel structural members.

**Features:** Permits secure non-friction connection without drilling or welding. Unique design allows offset placement on wide flange beam, I-beam, C-channel, open web, welded steel trusses, etc... Secures brace to structure either across or along the beam. Break-off set screws allow for visual verification of proper installation torque.

**Approvals:** Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Factory Mutual Approved (FM).

**Installation Instructions:** The Fig. 828 is the structural attachment component of a longitudinal or lateral sway brace assembly. It is intended to be combined with a TOLCO transitional attachment, "bracing pipe" and a TOLCO "braced pipe" attachment to form a complete bracing assembly. NFPA 13 and/or OSHPD guidelines should be followed.

To Install: Place the Fig. 828 on the flange of the beam, truss, or girder. Be sure the attachment is fully engaged to the rear of the opening. Tighten the cone point set screws (A) until the heads break off. Tighten the cone point set screw (B) until the head breaks off. Remove the flange nut from set screw (B). Install a TOLCO swivel fitting (Fig. 909, 910, 980, 986). Use flange nut to secure the swivel fitting.

**Finish:** Plain or Electro-Galvanized

**Approx. Weight/100:** 275 Lbs. (124.7kg)

**Order By:** Figure number and finish

Patent #6,098,942, #8,534,625

Canada Patent #2,286,659

**Patent Pending**

<table>
<thead>
<tr>
<th>Max. Horizontal Design Load (FM)</th>
<th>With Brace Perpendicular To The Beam</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brace Angle (degrees from vertical)</strong></td>
<td></td>
</tr>
<tr>
<td>30°-44°</td>
<td>45°-59°</td>
</tr>
<tr>
<td></td>
<td>60°-74°</td>
</tr>
<tr>
<td></td>
<td>75°-90°</td>
</tr>
<tr>
<td>1570</td>
<td>2220</td>
</tr>
<tr>
<td>(6.98kN)</td>
<td>(9.87kN)</td>
</tr>
<tr>
<td>1210</td>
<td>700</td>
</tr>
<tr>
<td>(5.38kN)</td>
<td>(3.11kN)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Max. Horizontal Design Load (FM)</th>
<th>With Brace Parallel To The Beam</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brace Angle (degrees from vertical)</strong></td>
<td></td>
</tr>
<tr>
<td>30°-44°</td>
<td>45°-59°</td>
</tr>
<tr>
<td></td>
<td>60°-74°</td>
</tr>
<tr>
<td></td>
<td>75°-90°</td>
</tr>
<tr>
<td>690</td>
<td>970</td>
</tr>
<tr>
<td>(3.07kN)</td>
<td>(4.31kN)</td>
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<tr>
<td>1210</td>
<td>1330</td>
</tr>
<tr>
<td>(5.38kN)</td>
<td>(5.91kN)</td>
</tr>
</tbody>
</table>

FM Approved design loads are based on ASD design method.

Eaton’s B-Line series seismic bracing components are designed to be compatible only with other B-Line series bracing components, resulting in a listed seismic bracing assembly. Eaton B-Line Division warranty for seismic bracing components will be the warranty provided in Eaton B-Line Division standard terms and conditions of sale made available by Eaton, except that, in addition to the other exclusions from Eaton B-Line Division warranty, Eaton makes no warranty relating to B-Line series seismic bracing components that are combined with products not provided by Eaton.

Reference page 106 for general fitting and standard finish specifications.
TOLCO™ Fig. 980 - Universal Swivel Sway Brace Attachment - 3/8”-16 to 3/4”-10 rods
TOLCO™ Fig. 980H - Universal Swivel Sway Brace Attachment - 7/8”-9 to 1 1/4”-7 rods

Size Range: One size fits bracing pipe 1” (25mm) thru 2” (50mm), 12 gauge (2.6mm) channel, and all structural steel up to 1/4” (31.7mm) thick.

Material: Steel. Stainless Steel Type 316 (SS6) optional.

Function: Multi-functional attachment to structure or braced pipe fitting.

Features: This product’s design incorporates a concentric attachment opening which is critical to the performance of structural seismic connections. NFPA 13 (2010) 9.3.5.8.4 indicates clearly that fastener table load values are based only on concentric loading. Mounts to any surface angle. Break off bolt head assures verification of proper installation.

Installation: Fig. 980 is the structural or transitional attachment component of a longitudinal or lateral sway brace assembly. It is intended to be combined with the 'bracing pipe' and TOLCO 'braced pipe' attachment, Fig. 1000, 1001, 2002, 4L, 4A or 4B to form a complete bracing assembly. NFPA 13 and/or OShPD guidelines should be followed.

To Install: Place the Fig. 980 onto the 'bracing pipe'. Tighten the set screw until the head breaks off. Attachment can pivot for adjustment to proper brace angle.

Approvals: —Underwriters Laboratories Listed in the USA (UL) and Canada (cUL). Approved by Factory Mutual Engineering (FM).

Note: Fig. 980 Swivel Attachment and Fig. 1001, Fig. 1000, Fig. 2002, Fig. 4A, Fig. 4B or Fig. 4L pipe clamps make up a sway brace system of UL Listed attachments and bracing materials which satisfies the requirements of Underwriters Laboratories and the National Fire Protection Association (NFPA)

Finish: Plain, Electro-Galvanized or Stainless Steel. Contact customer service for alternative finishes.

Order By: Figure number and finish.

US Patent Numbers
Pat. #6,273,372, Pat. #6,517,030, Pat. #6,953,174, Pat. #7,008,930, Pat. #7,191,987, Pat. #7,441,730, Pat. #7,669,806

<table>
<thead>
<tr>
<th>Part Number</th>
<th>A in. (mm)</th>
<th>B in. (mm)</th>
<th>D* in. (mm)</th>
<th>Max. Horizontal Design Load (cULus) lbs./(kN)</th>
<th>Max. Horizontal Design Load** (FM) lbs./(kN)</th>
<th>Approx. Wt./100 lbs. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>980-3/8</td>
<td>5 1/4” (133.3)</td>
<td>1 1/6” (47.6)</td>
<td>13/32” (10.3)</td>
<td>148 (66.2)</td>
<td>149 (67.1)</td>
<td></td>
</tr>
<tr>
<td>980-1/2</td>
<td>5 1/4” (133.3)</td>
<td>1 1/6” (47.6)</td>
<td>17/32” (13.5)</td>
<td>147 (66.7)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>980-5/8</td>
<td>5 1/4” (133.3)</td>
<td>1 1/6” (47.6)</td>
<td>11/16” (17.5)</td>
<td>146 (66.2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>980H-7/8</td>
<td>6 2/7” (171.4)</td>
<td>3 1/2” (88.9)</td>
<td>15/16” (23.8)</td>
<td>2015 (8.96)</td>
<td>1320 (5.87)</td>
<td>1970 (8.76)</td>
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<tr>
<td>980H-1</td>
<td>6 3/4” (171.4)</td>
<td>3 1/2” (88.9)</td>
<td>11/16” (27.0)</td>
<td>397 (180.1)</td>
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<td></td>
</tr>
<tr>
<td>980H-11/8</td>
<td>6 3/4” (171.4)</td>
<td>3 1/2” (88.9)</td>
<td>13/16” (30.2)</td>
<td>390 (176.9)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>980H-11/4</td>
<td>6 3/4” (171.4)</td>
<td>3 1/2” (88.9)</td>
<td>15/16” (33.3)</td>
<td>390 (176.9)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Mounting attachment hole size.
** Installed with 1” or 1 1/4” Schedule 40 brace pipe.

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Important! - For load information when using Fig. 980 with pre-installed or post-installed concrete anchors in compliance with NFPA 13 (2016) or ASCE 7-10, including prying factors, see load tables on pages AL1 thru AL21.

Reference page 106 for general fitting and standard finish specifications.
**TOLCO™ Fig. 981 - Fast Attach – Universal Swivel Sway Brace Attachment**

**Size Range:** Fits bracing pipe 1” (25mm) thru 2” (50mm), 12 gauge (2.6mm) channel and all structural steel up to 1/4” (6.3mm) thick. Fig. 981-S fits rod sizes 3/8” thru 5/8”. Fig. 981-L fits rod sizes 3/4” thru 7/8”.

**Material:** Steel

**Function:** Multi-functional attachment to hanger rod, trapeze rod, structure or braced pipe fitting.

**Features:** Fits multiple sizes of bracing pipe, strut or structural steel. Swivel allows adjustment to various surface angles. Breakaway bolt heads assure verification of proper installation torque. Unique “fast attach” yoke design fits multiple rod sizes; 3/8” thru 5/8” and 3/4” thru 7/8”. “Stackable” design allows installation of both lateral and longitudinal braces to be easily installed on a single hanger rod, with no disassembly.

**Installation:** Fig. 981 is the “braced pipe” attachment component of a lateral or longitudinal brace assembly. It is intended to be combined with the pipe hanger, all-thread rod, “bracing pipe” and TOLCO transitional and structural attachment component(s) to form a complete bracing assembly. NFPA 13 and or OSHPD guidelines should be followed.

**To Install:** Spin nut on top of hanger counterclockwise to loosen the nut and raise it above the top of the hanger. Attach Fig. 981 by slipping the open side of the 981 yoke onto the all thread rod above the top of the hanger. Tighten 3/8” cone point set screw on yoke until head breaks-off to ensure proper installation torque. Spin the hex nut clockwise and tighten securely. Insert brace pipe into the jaw of the 981 and tighten the cone point set screw until the head breaks off ensuring proper installation torque. Pivot brace pipe to proper angle and attach to structure using a TOLCO swivel structural attachment.

**Finish:** Electro-Galvanized

**Order By:** Figure number, rod size

**US Patent Numbers**
Pat. #6,273,372, Pat. #7,097,141, Pat. #7,654,043, Pat. #7,654,043 B2

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Rod Size Range</th>
<th>A (mm)</th>
<th>B (mm)</th>
<th>C (mm)</th>
<th>D (mm)</th>
<th>Max. Horizontal Design Load (kN)</th>
<th>Approx. Wt./100 lbs. (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>981-S</td>
<td>3/8” thru 5/8”</td>
<td>5 1/8” (130.2)</td>
<td>4 1/8” (104.8)</td>
<td>1 1/4” (31.7)</td>
<td>2 1/4” (57.1)</td>
<td>2015 (8.96)</td>
<td>88 (39.9)</td>
</tr>
<tr>
<td>981-L</td>
<td>3/4” &amp; 7/8”</td>
<td>5 1/8” (130.2)</td>
<td>4 1/8” (104.8)</td>
<td>1 1/4” (31.7)</td>
<td>2 1/4” (57.1)</td>
<td>2015 (8.96)</td>
<td>82 (37.2)</td>
</tr>
</tbody>
</table>

Reference page 106 for general fitting and standard finish specifications.

Eaton 124

B-Line series strut systems
TOLCO™ Fig. 985 - Mechanical Fast Clamp

Size Range:  Fig. 985-S fits rod sizes 3/8” thru 5/8”
Fig. 985-L fits rod sizes 3/4” thru 7/8” rod sizes

Material:  Steel

Function:  Used for attachment of seismic bracing to pipe hanger or trapeze

Features:  Allows up to 12” (304.8mm) of adjustability in brace length, when used with Fig. 986. Break-off set screw heads visually verify required installation torque. Unique “Fast Attach” yoke design allows Fig. 985 to be installed to hanger rods 3/8” thru 5/8” or 3/4” thru 7/8”

Finish:  Electro-galvanized

Order By:  Figure number, rod size & finish

Patent Pending

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Rod Size</th>
<th>Max. Horizontal Design Load</th>
<th>Approx. Wt./100 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>985-S</td>
<td>3/8” thru 5/8”</td>
<td>2015 (8.96)</td>
<td>204 (92.5)</td>
</tr>
<tr>
<td>985-L</td>
<td>3/4” &amp; 7/8”</td>
<td>2015 (8.96)</td>
<td>198 (89.8)</td>
</tr>
</tbody>
</table>

TOLCO™ Fig. 986 - Mechanical Fast Clamp

Size Range:  Available with holes for 1/2”-13 thru 3/4”-10 fastener attachment.

Material:  Steel

Function:  Used for attachment of seismic bracing to structure or hanger.

Features:  Allows up to 12” (304.8mm) of adjustability in brace length, when used with Fig. 985. Break-off set screw heads visually verify required installation torque. Swivel allows adjustment to various surface angles.

Finish:  Electro-galvanized

Order By:  Figure number, rod size & finish

Patent Pending

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Rod Size</th>
<th>Hole Dia. D</th>
<th>Max. Horizontal Design Load*</th>
<th>Approx. Wt./100 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>986-1/2</td>
<td>1/2”</td>
<td>9/16” (14.3)</td>
<td>2015 (8.96)</td>
<td>204 (92.5)</td>
</tr>
<tr>
<td>986-5/8</td>
<td>5/8”</td>
<td>11/16” (17.5)</td>
<td>2015 (8.96)</td>
<td>203 (92.1)</td>
</tr>
<tr>
<td>986-3/4</td>
<td>3/4”</td>
<td>13/16” (20.6)</td>
<td>2015 (8.96)</td>
<td>202 (91.8)</td>
</tr>
</tbody>
</table>

* When used with 15/8” (41.3mm) x 15/8” (41.3mm) 12 Ga. (2.6mm) channel

Reference page 106 for general fitting and standard finish specifications.
### Strut Fittings

**B261 - Two Hole 45° Knee Brace**
- Standard finishes: ZN, GRN
- Design load determined by testing using a B335 hinged corner connection.
- Load ratings are for brace members only. Do not exceed allowable beam or column loads for strut channels.
- Safety Factor of 3

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A in.</th>
<th>B in.</th>
<th>Design Load</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lbs.</td>
<td>kN</td>
</tr>
<tr>
<td>B261-8</td>
<td>8&quot;</td>
<td>7 5/8&quot;</td>
<td>1500</td>
<td>6.67</td>
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<tr>
<td>B261-12</td>
<td>12&quot;</td>
<td>10 1/16&quot;</td>
<td>1020</td>
<td>4.54</td>
</tr>
<tr>
<td>B261-16</td>
<td>16 5/8&quot;</td>
<td>13 3/8&quot;</td>
<td>530</td>
<td>2.36</td>
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<tr>
<td>B261-18</td>
<td>18&quot;</td>
<td>14 7/16&quot;</td>
<td>450</td>
<td>2.00</td>
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<td>18 11/16&quot;</td>
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<td>1.11</td>
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<tr>
<td>B261-36</td>
<td>36&quot;</td>
<td>27 3/16&quot;</td>
<td>110</td>
<td>0.49</td>
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</table>

### B631 - Two Hole 45° Tubing Knee Brace
- 1” (25.4) Square steel tubing
- Material: ASTM A513
- Standard finishes: ZN, GRN
- Design load determined by testing using a B335 hinged corner connection.
- Load ratings are for brace members only. Do not exceed allowable beam or column loads for strut channels.
- Safety Factor of 3

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A in.</th>
<th>Design Load</th>
<th>Wt./C</th>
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<td>B631-96</td>
<td>96&quot;</td>
<td>240</td>
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</tbody>
</table>

### B632 - Two Hole Straight Tubing Brace
- 1” (25.4) Square steel tubing
- Material: ASTM A513
- Standard finishes: ZN, GRN

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A in.</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>B632-18</td>
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</tbody>
</table>

Reference page 106 for general fitting and standard finish specifications.
### Clevis Fittings

**B169 Two Hole Splice**  
Clevis For B52  
- Standard finishes: ZN, GRN  
- Wt./C 84 Lbs. (38.1 kg)

**B168 Three Hole Splice**  
Clevis For B52  
- Standard finishes: ZN, GRN  
- Wt./C 126 Lbs. (57.1 kg)

**B167 Four Hole Splice**  
Clevis For B52  
- Standard finishes: ZN, GRN  
- Wt./C 178 Lbs. (80.7 kg)

**B170 Two Hole Splice**  
Clevis For B22 or B52A  
- Standard finishes: ZN, GRN  
- Wt./C 123 Lbs. (55.8 kg)

**B171 Three Hole Splice**  
Clevis For B22 or B52A  
- Standard finishes: ZN, GRN  
- Wt./C 195 Lbs. (88.4 kg)

**B172 Four Hole Splice**  
Clevis For B22 or B52A  
- Standard finishes: ZN, GRN  
- Wt./C 266 Lbs. (120.6 kg)

**B172-12 Four Hole Splice**  
Clevis For B12  
- Standard finishes: ZN, GRN  
- Wt./C 326 Lbs. (147.8 kg)

**B172-22A Four Hole Splice**  
Clevis For B11 or B22A  
- Standard finishes: ZN, GRN  
- Wt./C 406 Lbs. (184.1 kg)

**B450 U-Washer**  
- Material: ASTM A1011 HSLAS Gr. 50  
- Standard finishes: ZN, GRN

<table>
<thead>
<tr>
<th>Part No. &amp; Size</th>
<th>Hole Size H</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>B450-1/4</td>
<td>5/16&quot; (7.9)</td>
<td>14 (6.3)</td>
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<tr>
<td>B450-3/8</td>
<td>7/16&quot; (11.1)</td>
<td>14 (6.3)</td>
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<tr>
<td>B450-1/2</td>
<td>9/16&quot; (14.3)</td>
<td>13 (5.8)</td>
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<tr>
<td>B450-5/8</td>
<td>11/16&quot; (17.4)</td>
<td>13 (5.8)</td>
</tr>
<tr>
<td>B450-3/4</td>
<td>13/16&quot; (20.6)</td>
<td>13 (5.8)</td>
</tr>
</tbody>
</table>

**PA** Pre-assembled fitting.

Reference page 106 for general fitting and standard finish specifications.
‘U’ Fittings

**B527**
Three Hole Offset Plate Connection
- Standard finishes: ZN, GRN
- Wt./C 54 Lbs. (24.5 kg)

**B116-52**
Three Hole U-Support
- Standard finishes: ZN, GRN
- Wt./C 70 Lbs. (31.7 kg)

**B116-42**
Three Hole U-Support
- Standard finishes: ZN, GRN
- Wt./C 75 Lbs. (34.0 kg)

**B116-32**
Three Hole U-Support
- Standard finishes: ZN, GRN
- Wt./C 84 Lbs. (38.1 kg)

**B116-32A**
Three Hole U-Support
- Standard finishes: ZN, GRN
- Wt./C 116 Lbs. (52.6 kg)

**B116-12**
Three Hole U-Support
- Standard finishes: ZN, GRN
- Wt./C 108 Lbs. (49.0 kg)

**B107**
Five Hole U-Support
- Standard finishes: ZN, GRN, HDG
- Wt./C 85 Lbs. (38.5 kg)

**B107-22A**
Three Hole U-Support
- Standard finishes: ZN, GRN
- Wt./C 126 Lbs. (57.1 kg)

**B588**
Three Hole U-Support
- Standard finishes: ZN, GRN
- Wt./C 157 Lbs. (71.2 kg)

**PA** Pre-assembled fitting.

Reference page 106 for general fitting and standard finish specifications.
B412 Three Hole Offset U-Support
- Standard finishes: ZN, GRN
- Wt./C 89 Lbs. (40.3 kg)

B107S Five Hole U-Support
- Material: 7 Gauge (4.5) ASTM A1011 33,000 PSI min. yield
- Standard finishes: ZN, GRN
- Wt./C 51 lbs. (23.1 kg)

B596 Three Hole Swivel Clevis
- Material: 7 Gauge (4.5)
- Standard finishes: ZN, GRN
- Wt./C 53 lbs. (24.0 kg)

B578 Three Hole Light-Weight U-Support
- Material: 10 Gauge (3.4) ASTM A1011 HSLAS Gr. 50
- Standard finishes: ZN, GRN
- Wt./C 18 lbs. (8.1 kg)

B594 Five Hole U-Support
- Standard finishes: ZN, GRN
- Wt./C 106 lbs. (48.1 kg)

B266 Six Hole U-Support
- Standard finishes: ZN, GRN
- Wt./C 105 lbs. (47.6 kg)

B425 Six Hole U-Support
- Standard finishes: ZN, GRN
- Wt./C 167 lbs. (75.7 kg)

B581 Eight Hole U-Support
- Standard finishes: ZN, GRN
- Wt./C 201 lbs. (91.2 kg)

B519 Eight Hole U-Support
- Standard finishes: ZN, GRN
- Wt./C 266 lbs. (102.5 kg)

Reference page 106 for general fitting and standard finish specifications.
**Strut Fittings**

**U' Fittings**

**B333**
Slotted Three Hole U-Support For B22
- Standard finishes: ZN, GRN

**B408**
Two Hole Bus Duct Clevis
- Standard finishes: ZN, GRN

**B173**
Four Hole Clevis
- Standard finishes: ZN, GRN
- Wt./C 71 Lbs. (32.2 kg)

**B595**
Three Hole Clevis
- Standard finishes: ZN, GRN
- Wt./C 75 Lbs. (34.0 kg)

**B405**
Three Hole Suspension Clevis
- Standard finishes: ZN, GRN
- Wt./C 75 Lbs. (34.0 kg)

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Reference page 106 for general fitting and standard finish specifications.

Eaton

B-Line series strut systems
Reference page 106 for general fitting and standard finish specifications.

B398-1
Three Hole Cup Support
- Standard finishes: ZN, GRN
- Wt./C 73 Lbs. (33.1 kg)

B400
Three Stud Ring Connection
- 1/2”-13 stud protrudes 1” (25.4mm)
- Standard finishes: ZN
- Wt./C 85 Lbs. (38.5 kg)

B400-1
One Stud Ring Connection
- 1/2”-13 stud protrudes 1” (25.4mm)
- Standard finishes: ZN
- Wt./C 53 Lbs. (24.0 kg)

B400-2
One Stud Ring Connection
- 1/2”-13 stud protrudes 1” (25.4mm)
- Standard finishes: ZN
- Wt./C 40 Lbs. (18.1 kg)

B400-3
Two Stud Ring Connection
- 1/2”-13 stud protrudes 1” (25.4mm)
- Standard finishes: ZN
- Wt./C 59 Lbs. (26.7 kg)

B400-4
Two Stud Ring Connection
- 1/2”-13 stud protrudes 1” (25.4mm)
- Standard finishes: ZN
- Wt./C 59 Lbs. (26.7 kg)
**Z' Fittings**

**B526**  
Two Hole Offset Z-Support  
- Standard finishes: ZN, GRN  
- Wt./C 38 Lbs. (17.2 kg)  

**B106-52**  
Two Hole Offset Z-Support for B52  
- Standard finishes: ZN, GRN  
- Wt./C 40 Lbs. (18.1 kg)

**B106-42**  
Two Hole Offset Z-Support for B42  
- Standard finishes: ZN, GRN  
- Wt./C 44 Lbs. (20.0 kg)

**B106-32**  
Two Hole Offset Z-Support for B32  
- Standard finishes: ZN, GRN  
- Wt./C 51 Lbs. (23.1 kg)

**B106-12**  
Two Hole Offset Z-Support for B12  
- Standard finishes: ZN, GRN  
- Wt./C 63 Lbs. (28.6 kg)

**B105**  
Three Hole Offset Z-Support for B22  
- Standard finishes: ZN, GRN, HDG  
- Wt./C 51 Lbs. (23.1 kg)

**B110**  
Three Hole Offset Z-Support for B11  
- Standard finishes: ZN, GRN  
- Wt./C 70 Lbs. (31.7 kg)

**B586**  
Two Hole Z-Support  
- Standard finishes: ZN, GRN  
- Wt./C 90 Lbs. (40.8 kg)

**B108**  
Two Hole Offset Z-Support  
- Standard finishes: ZN, GRN  
- Wt./C 55 Lbs. (24.9 kg)

Reference page 106 for general fitting and standard finish specifications.
**Strut Fittings**

Reference page 106 for general fitting and standard finish specifications.

**‘Z’ Fittings**

**B407 Two Hole Z-Support**
- Standard finishes: ZN, GRN

**Part No.** | **A (In. mm)** | **Wt./C (Lbs. kg)**
--- | --- | ---
B407-4 | 4” (101.6) | 77 (34.9)
B407-5 | 5” (127.0) | 95 (43.1)
B407-6 | 6” (152.4) | 98 (44.4)
B407-7 | 7” (177.8) | 105 (47.6)
B407-8 | 8” (203.2) | 120 (54.4)
B407-9 5/8 | 9 5/8” (244.5) | 138 (62.6)

**B410-22 Channel Hanger Bracket for B22**
- Material: 11 Gauge (3.0)
  ASTM A1011 HSLAS Gr. 50
- Standard finishes: ZN, GRN
- Wt./C 9 Lbs. (4.1 kg)

**B410-11 Channel Hanger Bracket for B11**
- Material: 11 Gauge (3.0)
  ASTM A1011 HSLAS Gr. 50
- Standard finishes: ZN, GRN
- Wt./C 13.4 Lbs. (6.1 kg)

**B580 Five Hole Gussetted Z-Support**
- Standard finishes: ZN, GRN
- Wt./C 100 Lbs. (45.3 kg)

---

**B387 Two Hole Z-Bus Duct Connection**
- Standard finishes: ZN, GRN

**Part No.** | **A (In. mm)** | **Wt./C (Lbs. kg)**
--- | --- | ---
B387 | 7 (120.6) | 89 (40.3)
B387-1 | 3 7/8 (96.0) | 78 (35.4)
B387-2 | 2 7/8 (61.1) | 62 (28.1)

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**B410-52 Channel Hanger Bracket for B52**
- Material: 11 Gauge (3.0)
  ASTM A1011 HSLAS Gr. 50
- Standard finishes: ZN, GRN
- Wt./C 6.7 Lbs. (3.0 kg)

**B580 Five Hole Gussetted Z-Support**
- Standard finishes: ZN, GRN
- Wt./C 100 Lbs. (45.3 kg)
‘Z’ & Wing Fittings

B515
Adjustable Offset Gusseted Z-Support
- Standard finishes: ZN, GRN
- Wt./C 93 Lbs. (42.2 kg)

B428
Eight Hole Gusseted Corner Connection
- Standard finishes: ZN, GRN
- Wt./C 203 Lbs. (92.1 kg)

B267R
Three Hole Single Corner Connection (Right Hand)
- Standard finishes: ZN, GRN
- Wt./C 54 Lbs. (24.5 kg)

B267L
Three Hole Single Corner Connection (Left Hand)
- Standard finishes: ZN, GRN
- Wt./C 54 Lbs. (24.5 kg)

B270R
Four Hole Single Corner Connection (Right Hand)
- Standard finishes: ZN, GRN
- Wt./C 77 Lbs. (34.9 kg)

B270L
Four Hole Single Corner Connection (Left Hand)
- Standard finishes: ZN, GRN
- Wt./C 77 Lbs. (34.9 kg)

B268R
Five Hole Single Corner Connection (Right Hand)
- Standard finishes: ZN, GRN
- Wt./C 100 Lbs. (45.3 kg)

B268L
Five Hole Single Corner Connection (Left Hand)
- Standard finishes: ZN, GRN
- Wt./C 100 Lbs. (45.3 kg)

Reference page 106 for general fitting and standard finish specifications.
**& Wing Fittings**

**B269R**
Six Hole Single Corner Connection (Right Hand)
- Standard finishes: ZN, GRN
- Wt./C 120 Lbs. (54.4 kg)

**B269L**
Six Hole Single Corner Connection (Left Hand)
- Standard finishes: ZN, GRN
- Wt./C 120 Lbs. (54.4 kg)

**B119**
Six Hole Double Corner Connection
- Standard finishes: ZN, GRN
- Wt./C 71 Lbs. (32.2 kg)

**B120**
Six Hole Double Corner Connection
- Standard finishes: ZN, GRN
- Wt./C 110 Lbs. (49.9 kg)

**B121**
Eight Hole Double Corner Connection
- Standard finishes: ZN, GRN
- Wt./C 152 Lbs. (68.9 kg)

**B271**
Five Hole Double Wing Connection
- Standard finishes: ZN, GRN
- Wt./C 95 Lbs. (43.1 kg)

**B272**
Eight Hole Double Wing Connection
- Standard finishes: ZN, GRN
- Wt./C 156 Lbs. (70.7 kg)

**B273**
Ten Hole Double Wing Connection
- Standard finishes: ZN, GRN
- Wt./C 185 Lbs. (83.9 kg)

**B122**
Six Hole Triple Wing Connection
- Standard finishes: ZN, GRN
- Wt./C 110 Lbs. (49.9 kg)

Reference page 106 for general fitting and standard finish specifications.
Wing Fittings

**B123**
Twelve Hole Triple Wing Connection
- Standard finishes: ZN, GRN
- Wt./C 234 Lbs. (106.1 kg)

**B124**
Nine Hole Triple Wing Connection
- Standard finishes: ZN, GRN
- Wt./C 177 Lbs. (80.3 kg)

**B276**
Fourteen Hole Double Corner Gussetted Connection
- Standard finishes: ZN, GRN
- Wt./C 196 Lbs. (88.9 kg)

**B274R**
Eight Hole Single Corner Gussetted Connection (Right Hand)
- Standard finishes: ZN, GRN
- Wt./C 176 Lbs. (79.8 kg)

**B274L**
Eight Hole Single Corner Gussetted Connection (Left Hand)
- Standard finishes: ZN, GRN
- Wt./C 176 Lbs. (79.8 kg)

**B277**
Twelve Hole Triple Wing Gussetted Connection
- Standard finishes: ZN, GRN
- Wt./C 285 Lbs. (129.3 kg)

**B362**
Eight Hole Double Corner Gussetted Connection
- Standard finishes: ZN, GRN
- Wt./C 226 Lbs. (102.5 kg)

**B571**
Eight Hole Wing Connection
- Standard finishes: ZN, GRN
- Wt./C 201 Lbs. (91.2 kg)

Reference page 106 for general fitting and standard finish specifications.
## Wing Fittings & Post Bases

**B346L**
**Eight Hole Double Corner Gussetted Connection (Left Hand)**
- Standard finishes: ZN, GRN
- Wt./C 242 Lbs. (109.8 kg)

**B346R**
**Eight Hole Double Corner Gussetted Connection (Right Hand)**
- Standard finishes: ZN, GRN
- Wt./C 242 Lbs. (109.8 kg)

**B279**
**Post Base for B22**
- Standard finishes: ZN, GRN
- Wt./C 314 Lbs. (142.4 kg)

**B279SQ**
**Post Base for B22**
- Standard finishes: ZN, GRN
- Wt./C 314 Lbs. (142.4 kg)

**B279FL**
**Post Base for B22**
- Standard finishes: ZN, GRN
- Wt./C 230 Lbs. (104.3 kg)

**B279**
**Post Base for B22**
- Standard finishes: ZN, GRN
- Wt./C 314 Lbs. (142.4 kg)

**B280**
**Post Base for B22**
- Standard finishes: ZN, GRN, HDG, SS4, AL
- Wt./C 392 Lbs. (177.8 kg)

**B280SQ**
**Post Base for B22**
- Standard finishes: ZN, GRN, HDG, SS4, AL
- Wt./C 392 Lbs. (177.8 kg)

**B280FL**
**Post Base for B22**
- Standard finishes: ZN, GRN, HDG, SS4
- Wt./C 312 Lbs. (141.5 kg)

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Reference page 106 for general fitting and standard finish specifications.

B-Line series strut systems

Eaton
Strut Fittings

Reference page 106 for general fitting and standard finish specifications.

B281A
Post Base for B22A, B, C, ETC.
- Standard finishes: ZN, GRN
- Wt./C 330 Lbs. (149.7 kg)

B281ASQ
Post Base for B22A, B, C, Etc.
- Standard finishes: ZN, GRN
- Wt./C 330 Lbs. (149.7 kg)

B281AFL
Post Base for B22A, B, C, Etc.
- Standard finishes: ZN, GRN
- Wt./C 250 Lbs. (113.4 kg)

Post Bases

B281
Post Base for B22A, B, C, Etc.
- Standard finishes: ZN, GRN
- Wt./C 400 Lbs. (181.4 kg)

B281SQ
Post Base for B22A, B, C, Etc.
- Standard finishes: ZN, GRN, HDG, SS4
- Wt./C 400 Lbs. (181.4 kg)

B281FL
Post Base for B22A, B, C, Etc.
- Standard finishes: ZN, GRN
- Wt./C 320 Lbs. (145.1 kg)

B281M
Post Base for B22-2PL
- Standard finishes: ZN, GRN
- Wt./C 470 Lbs. (213.2 kg)

B281MSQ
Post Base for B22-2PL
- Standard finishes: ZN, GRN
- Wt./C 470 Lbs. (213.2 kg)

B570
Post Base for Four Channel Combinations
- Standard finishes: ZN, GRN
- Wt./C 397 Lbs. (180.1 kg)

Eaton
B-Line series strut systems

Reference page 106 for general fitting and standard finish specifications.
B570A
Post Base for Four Channel Combinations
- Standard finishes: ZN, GRN
- Wt./C 550 Lbs. (249.5 kg)

B278
Post Base for B22
- Standard finishes: ZN, GRN
- Wt./C 288 Lbs. (130.6 kg)

B585
Post Base for B22A
- Standard finishes: ZN, GRN
- Wt./C 97 Lbs. (44.0 kg)

B300
Post Base
- Material: Malleable Iron
- Standard finishes: ZN, GRN
- Wt./C 259 Lbs. (117.5 kg)

B187
Bracket
- Uniform Loading 1450 Lbs. (6.45 kN)
- Safety Factor of 2.5
- Hole Spacing on Bracket Top 5 5/16" (150.8) Center to Center
- Standard finishes: ZN, GRN
- Wt./C 193 Lbs. (87.5 kg)

B188
Bracket
- Uniform Loading 1080 Lbs. (4.80 kN)
- Safety Factor of 2.5
- Hole Spacing on Bracket Top 8 15/16" (227.0) Center to Center
- Standard finishes: ZN, GRN
- Wt./C 241 Lbs. (109.3 kg)

B189
Bracket
- Uniform Loading 870 Lbs. (3.87 kN)
- Safety Factor of 2.5
- Hole Spacing on Bracket Top 11 15/16" (303.2) Center to Center
- Standard finishes: ZN, GRN
- Wt./C 308 Lbs. (139.7 kg)

B541
Bracket
- Uniform Loading 1240 Lbs. (5.51 kN)
- Safety Factor of 2.5
- Hole Spacing on Bracket Top 7 7/16" (188.9) Center to Center
- Standard finishes: ZN, GRN
- Wt./C 201 Lbs. (91.2 kg)

Reference page 106 for general fitting and standard finish specifications.
Post Bases & Brackets

**B190 12” (304.8) Bracket**
- Uniform Loading 900 Lbs. (4.00 kN)
- Safety Factor of 2.5
- Standard finishes: ZN, GRN
- Wt./C 260 Lbs. (117.9 kg)

**B191-18 18” (457.2) Bracket**
- Uniform Loading 600 Lbs. (2.67 kN)
- Safety Factor of 2.5
- Standard finishes: ZN, GRN
- Wt./C 377 Lbs. (171.0 kg)

**B289-12 12 1/2” (317.5) Bracket**
- Uniform Loading 1040 Lbs. (4.63 kN)
- Safety Factor of 2.5
- Standard finishes: ZN, GRN
- Wt./C 285 Lbs. (129.3 kg)

**B290 161/2” (419.1) Bracket**
- Uniform Loading 1200 Lbs. (5.34 kN)
- Safety Factor of 2.5
- Standard finishes: ZN, GRN
- Wt./C 405 Lbs. (183.7 kg)

**B192 24” (609.6) Bracket**
- Uniform Loading 820 Lbs. (3.65 kN)
- Safety Factor of 2.5
- Standard finishes: ZN, GRN
- Wt./C 576 Lbs. (261.3 kg)

Reference page 106 for general fitting and standard finish specifications.
B289-14  14½" (368.3) Bracket
- Uniform Loading 900 Lbs. (4.00 kN)
- Safety Factor of 2.5
- Standard finishes: ZN, GRN
- Wt./C 295 Lbs. (133.8 kg)

B291  18½" (469.9) Bracket
- Uniform Loading 1070 Lbs. (4.76 kN)
- Safety Factor of 2.5
- Standard finishes: ZN, GRN
- Wt./C 468 Lbs. (212.3 kg)

B292  20½" (520.7) Bracket
- Uniform Loading 600 Lbs. (2.67 kN)
- Safety Factor of 2.5
- Standard finishes: ZN, GRN, HDG, SS4
- Wt./C 490 Lbs. (222.2 kg)

Reference page 106 for general fitting and standard finish specifications.
**Bracket Specifications**

**B409 Single Channel Bracket**
- Safety Factor of 2.5
- Standard finishes: ZN, GRN, SS4

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A (in.)</th>
<th>Uniform Load (Lbs.)</th>
<th>Wt./C (kN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B409-6</td>
<td>6”</td>
<td>1920 (8.54)</td>
<td>152 (68.9)</td>
</tr>
<tr>
<td>B409-9</td>
<td>9”</td>
<td>1280 (5.69)</td>
<td>195 (88.4)</td>
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<tr>
<td>B409-12</td>
<td>12”</td>
<td>960 (4.27)</td>
<td>232 (105.2)</td>
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<tr>
<td>B409-14</td>
<td>14”</td>
<td>800 (3.56)</td>
<td>274 (124.3)</td>
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<tr>
<td>B409-16</td>
<td>16”</td>
<td>730 (3.25)</td>
<td>314 (142.4)</td>
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<tr>
<td>B409-18</td>
<td>18”</td>
<td>640 (2.84)</td>
<td>347 (157.4)</td>
</tr>
<tr>
<td>B409-24</td>
<td>24”</td>
<td>480 (2.13)</td>
<td>450 (204.1)</td>
</tr>
</tbody>
</table>

**B297 Double Channel Bracket**
- Safety Factor of 2.5
- Standard finishes: ZN, GRN, HDG

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A (in.)</th>
<th>Uniform Load (Lbs.)</th>
<th>Wt./C (Lbs.)</th>
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</thead>
<tbody>
<tr>
<td>B297-12</td>
<td>12”</td>
<td>1660 (7.37)</td>
<td>485 (220.0)</td>
</tr>
<tr>
<td>B297-18</td>
<td>18”</td>
<td>1100 (4.88)</td>
<td>668 (303.0)</td>
</tr>
<tr>
<td>B297-24</td>
<td>24”</td>
<td>835 (3.71)</td>
<td>857 (388.7)</td>
</tr>
<tr>
<td>B297-30</td>
<td>30”</td>
<td>665 (2.96)</td>
<td>1040 (471.7)</td>
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<tr>
<td>B297-36</td>
<td>36”</td>
<td>550 (2.44)</td>
<td>1240 (562.4)</td>
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<tr>
<td>B297-42</td>
<td>42”</td>
<td>465 (2.06)</td>
<td>1440 (635.2)</td>
</tr>
</tbody>
</table>

**B494 Braced Single Bracket**
- Safety Factor of 2.5
- Standard finishes: ZN, GRN

<table>
<thead>
<tr>
<th>Part No.</th>
<th>L (in.)</th>
<th>H (in.)</th>
<th>Uniform Load (Lbs.)</th>
<th>Wt./C (kN)</th>
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<tbody>
<tr>
<td>B494-12</td>
<td>12”</td>
<td>8 3/4”</td>
<td>2500 (11.12)</td>
<td>392 (178.0)</td>
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<tr>
<td>B494-18</td>
<td>18”</td>
<td>8 3/4”</td>
<td>1700 (7.56)</td>
<td>509 (231.0)</td>
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<tr>
<td>B494-24</td>
<td>24”</td>
<td>8 3/4”</td>
<td>1300 (5.78)</td>
<td>635 (288.0)</td>
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<td>B494-30</td>
<td>30”</td>
<td>11 1/4”</td>
<td>1600 (7.11)</td>
<td>885 (402.8)</td>
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<td>B494-36</td>
<td>36”</td>
<td>11 1/4”</td>
<td>1100 (4.89)</td>
<td>1024 (464.5)</td>
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<td>B494-42</td>
<td>42”</td>
<td>16”</td>
<td>980 (4.36)</td>
<td>1285 (582.9)</td>
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<td>48”</td>
<td>16”</td>
<td>980 (4.36)</td>
<td>1409 (639.1)</td>
</tr>
</tbody>
</table>

Dimension compatible fitting

Reference page 106 for general fitting and standard finish specifications.
### B174SH-B186SH L&R Slotted Bracket

- Safety Factor of 2.5
- Specify L for left or R for right bracing
- Material: ASTM A1011 33,000 PSI min. yield
- Standard finishes: ZN, GRN

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>Uniform Load</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In.</td>
<td>Lbs.</td>
<td>kN</td>
</tr>
<tr>
<td>B174SH</td>
<td>24”</td>
<td>67/16” (163.5)</td>
<td>225 (1.00)</td>
</tr>
<tr>
<td>B175SH</td>
<td>26”</td>
<td>71/16” (176.2)</td>
<td>225 (1.00)</td>
</tr>
<tr>
<td>B176SH</td>
<td>28”</td>
<td>77/16” (188.9)</td>
<td>225 (1.00)</td>
</tr>
<tr>
<td>B177SH</td>
<td>30”</td>
<td>715/16” (201.6)</td>
<td>225 (1.00)</td>
</tr>
<tr>
<td>B178SH</td>
<td>12”</td>
<td>3/16” (87.3)</td>
<td>350 (1.55)</td>
</tr>
<tr>
<td>B179SH</td>
<td>14”</td>
<td>315/16” (100.0)</td>
<td>350 (1.55)</td>
</tr>
<tr>
<td>B180SH</td>
<td>16”</td>
<td>47/16” (112.7)</td>
<td>250 (1.11)</td>
</tr>
<tr>
<td>B181SH</td>
<td>18”</td>
<td>415/16” (125.4)</td>
<td>250 (1.11)</td>
</tr>
<tr>
<td>B182SH</td>
<td>20”</td>
<td>57/16” (138.1)</td>
<td>250 (1.11)</td>
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<tr>
<td>B183SH</td>
<td>22”</td>
<td>515/16” (150.8)</td>
<td>250 (1.11)</td>
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<tr>
<td>B184SH</td>
<td>6”</td>
<td>115/16” (49.2)</td>
<td>225 (1.00)</td>
</tr>
<tr>
<td>B185SH</td>
<td>8”</td>
<td>27/16” (61.9)</td>
<td>225 (1.00)</td>
</tr>
<tr>
<td>B186SH</td>
<td>10”</td>
<td>215/16” (74.6)</td>
<td>325 (1.44)</td>
</tr>
</tbody>
</table>

Right bracket shown, left bracket gussett on opposite side.

### B196 Channel Clevis Bracket

- Safety Factor of 2.5
- Standard finishes: ZN, GRN

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>Uniform Load</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In.</td>
<td>Lbs.</td>
<td>kN</td>
</tr>
<tr>
<td>B196-18</td>
<td>18”</td>
<td>600 (2.67)</td>
<td>430 (195.0)</td>
</tr>
<tr>
<td>B196-24</td>
<td>24”</td>
<td>450 (2.00)</td>
<td>510 (231.3)</td>
</tr>
</tbody>
</table>

### B198 Channel Clevis Bracket

- Safety Factor of 2.5
- Standard finishes: ZN, GRN

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>Uniform Load</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In.</td>
<td>Lbs.</td>
<td>kN</td>
</tr>
<tr>
<td>B198-6</td>
<td>6”</td>
<td>1600 (7.12)</td>
<td>185 (83.9)</td>
</tr>
<tr>
<td>B198-12</td>
<td>12”</td>
<td>800 (3.56)</td>
<td>284 (128.8)</td>
</tr>
</tbody>
</table>

### B198A Channel Clevis Bracket

- Safety Factor of 2.5
- Standard finishes: ZN, GRN

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>Uniform Load</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In.</td>
<td>Lbs.</td>
<td>kN</td>
</tr>
<tr>
<td>B198A-6</td>
<td>6”</td>
<td>1600 (7.12)</td>
<td>185 (83.9)</td>
</tr>
<tr>
<td>B198A-12</td>
<td>12”</td>
<td>800 (3.56)</td>
<td>284 (128.8)</td>
</tr>
</tbody>
</table>

Reference page 106 for general fitting and standard finish specifications.
B293 Channel Bracket
- Safety Factor of 2.5
- Standard finishes: ZN, GRN

\[\text{Part No.} \quad \text{A} \quad \text{Uniform Load} \quad \text{Wt./C} \]
\[
\begin{array}{cccc}
B293-6 & 6" \ (152.4) & 1200 \ (5.34) & 144 \ (65.3) \\
B293-12 & 12" \ (304.8) & 600 \ (2.67) & 252 \ (114.3) \\
B293-18 & 18" \ (457.2) & 400 \ (1.78) & 340 \ (154.2) \\
B293-24 & 24" \ (609.6) & 300 \ (1.33) & 412 \ (186.9) \\
\end{array}
\]

B293A Channel Bracket
- Safety Factor of 2.5
- Standard finishes: ZN, GRN

\[\text{Part No.} \quad \text{A} \quad \text{Uniform Load} \quad \text{Wt./C} \]
\[
\begin{array}{cccc}
B293A-6 & 6" \ (152.4) & 1200 \ (5.34) & 144 \ (65.3) \\
B293A-12 & 12" \ (304.8) & 600 \ (2.67) & 252 \ (114.3) \\
B293A-18 & 18" \ (457.2) & 400 \ (1.78) & 340 \ (154.2) \\
B293A-24 & 24" \ (609.6) & 300 \ (1.33) & 412 \ (186.9) \\
\end{array}
\]

B194 Bracket for B22 & B24
- Safety Factor of 2.5
- 6300 In.-Lbs (712 N•m) applies to fitting only, not to strength of strut arm
- Refer to pages 56, 57 & 59 for strut loading data
- Standard finishes: ZN, GRN
- Wt./C 210 Lbs. (95.2 kg)

B370 Bracket for B22A & B11
- Safety Factor of 2.5
- 13000 In.-Lbs (1469 N•m) applies to fitting only, not to strength of strut arm
- Refer to pages 51, 56 & 57 for strut loading data
- Standard finishes: ZN, GRN
- Wt./C 266 Lbs. (120.6 kg)

B195 Bracket for B42
- Safety Factor of 2.5
- 2500 In.-Lbs (282 N•m) applies to fitting only, not to strength of strut arm
- Refer to pages 57 & 65 for strut loading data
- Standard finishes: ZN, GRN
- Wt./C 174 Lbs. (78.9 kg)

B440 Bracket for B52 & B54
- Safety Factor of 2.5
- 2000 In.-Lbs (226 N•m) applies to fitting only, not to strength of strut arm
- Refer to page 57, 67 & 69 for strut loading data
- Standard finishes: ZN, GRN
- Wt./C 177 Lbs. (80.3 kg)

Reference page 106 for general fitting and standard finish specifications.
### B449-4, 8 & 12 Cable Saddle Bracket
- Safety Factor of 2.5
- Material: 11 Gauge (3.0) ASTM A1011 HSLAS Gr. 50
- Standard finishes: ZN, GRN

### B449-18 18" (457.2) Cable Saddle Bracket
- Safety Factor of 2.5
- Uniform Load 960 Lbs. (4.17 kN)
- Material: 11 Gauge (3.0) ASTM A1011 HSLAS Gr. 50
- Standard finishes: ZN, GRN
- Wt./C 312 Lbs. (141.5 kg)

### B409DB Series Solar Bracket
- Safety Factor of 2.5
- Includes: (1) Channel Bracket Plate - 1/4" x 3 1/2" x 7 3/4" with welded channel
  (1) Back Plate - 1/4" x 3 1/2" x 7 3/4"
  (4) 3/8"-16 x 8 1/2" Square Neck Carriage Bolts
  (4) 3/8"-16 Serrated Flange Hex Nuts
- Fits 4" (101mm) to 6 1/2" (165mm) wide supports
- Standard finishes: ZN, HDG

### Part Numbers and Specifications

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A</th>
<th>B</th>
<th>Uniform Load</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ln.</td>
<td>mm</td>
<td>Lbs.</td>
<td>kN</td>
</tr>
<tr>
<td>B449-4</td>
<td>4 1/2&quot; (114.3)</td>
<td>2 3/8&quot; (60.3)</td>
<td>2400 (10.67)</td>
<td>74 (33.5)</td>
</tr>
<tr>
<td>B449-8</td>
<td>8 1/2&quot; (215.9)</td>
<td>2 3/8&quot; (60.3)</td>
<td>1270 (5.65)</td>
<td>124 (56.2)</td>
</tr>
<tr>
<td>B449-12</td>
<td>12 1/2&quot; (317.5)</td>
<td>4&quot; (101.6)</td>
<td>860 (3.82)</td>
<td>184 (83.4)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>L</th>
<th>Uniform Load</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ln.</td>
<td>mm</td>
<td>Lbs.</td>
</tr>
<tr>
<td>B409DB-12</td>
<td>12&quot; (304.8)</td>
<td>800 (3.56)</td>
<td>766 (347.4)</td>
</tr>
<tr>
<td>B409DB-18</td>
<td>18&quot; (457.2)</td>
<td>800 (3.56)</td>
<td>956 (433.6)</td>
</tr>
</tbody>
</table>

A single channel version and other lengths are available.
Contact Eaton B-Line Division engineering for more information.

Reference page 106 for general fitting and standard finish specifications.
**Brackets**

**B816**
- Standard finishes: ZN, HDG

**B802D-**
- *Specify Width: W = 8, 12, 16
- Standard finishes: ZN, HDG

**B810-**
- *Specify Width: W = 8, 12, 16
- 13/16” (20.6mm) x 1” (25.4mm) banding slots for steel band
- Standard finishes: ZN, HDG

**B852S-**
- *Specify Width: W = 8, 12, 16
- **Specify Depth: D = 6, 8, 10, 12, 16, 18, 24
- 13/16” (20.6mm) x 1” (25.4mm) banding slots for steel band
- Standard finishes: ZN, HDG

Reference page 106 for general fitting and standard finish specifications.
B811- *
- *Specify Width:  W = 8, 12, 16
- Can be attached directly to B809 & B812
- Standard finishes: ZN, HDG

B812- *
- *Specify Depth:  D = 6, 8, 12, 16, 18, 24
- 13/16” (20.6mm) x 1” (25.4mm) banding slots for steel band
- Standard finishes: ZN, HDG

B809B- *
- *Specify Depth:  D = 6, 8, 10, 12, 16, 18, 24
- 13/16” (20.6mm) x 1” (25.4mm) banding slots for steel band
- Standard finishes: ZN, HDG

<table>
<thead>
<tr>
<th>Part No.</th>
<th>D</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>In.</td>
<td>mm</td>
</tr>
<tr>
<td>B809B-6</td>
<td>6&quot;</td>
<td>(152.4)</td>
</tr>
<tr>
<td></td>
<td>(127/4&quot;) (323.9)</td>
<td></td>
</tr>
<tr>
<td>B809B-8</td>
<td>8&quot;</td>
<td>(203.2)</td>
</tr>
<tr>
<td></td>
<td>(143/4&quot;) (374.7)</td>
<td></td>
</tr>
<tr>
<td>B809B-10</td>
<td>10&quot;</td>
<td>(254.0)</td>
</tr>
<tr>
<td></td>
<td>(167/4&quot;) (425.5)</td>
<td></td>
</tr>
<tr>
<td>B809B-12</td>
<td>12&quot;</td>
<td>(304.8)</td>
</tr>
<tr>
<td></td>
<td>(183/4&quot;) (476.2)</td>
<td></td>
</tr>
<tr>
<td>B809B-16</td>
<td>16&quot;</td>
<td>(406.4)</td>
</tr>
<tr>
<td></td>
<td>(223/4&quot;) (577.8)</td>
<td></td>
</tr>
<tr>
<td>B809B-18</td>
<td>18&quot;</td>
<td>(457.2)</td>
</tr>
<tr>
<td></td>
<td>(243/4&quot;) (629.6)</td>
<td></td>
</tr>
<tr>
<td>B809B-24</td>
<td>24&quot;</td>
<td>(609.6)</td>
</tr>
<tr>
<td></td>
<td>(273/4&quot;) (704.8)</td>
<td></td>
</tr>
</tbody>
</table>

Reference page 106 for general fitting and standard finish specifications.
### B214 R&L
**Reel Rack Support for 1 1/4” (32) Pipe**
- Standard finishes: ZN, GRN
- Wt./C 200 Lbs. (90.7 kg)

![B214R](image)

**B214L**
Left Hand

### B214 R&L
**Reel Rack Support for 2” (50) Pipe**
- Standard finishes: ZN, GRN
- Wt./C 246 Lbs. (111.6 kg)

![B514R](image)

**B514L**
Left Hand

### B475
**Double Reel Rack Support on Single Channel for 1 1/4” (32) Pipe**
- Standard finishes: ZN, GRN
- Wt./C 326 Lbs. (147.9 kg)

![B475](image)

### B473
**Double Reel Rack Support on Single Channel for 2” (50) Pipe**
- Standard finishes: ZN, GRN
- Wt./C 351 Lbs. (159.2 kg)

![B473](image)

### B474
**Double Reel Rack Support on Double Channel for 1 1/4” (32) Pipe**
- Standard finishes: ZN, GRN
- Wt./C 257 Lbs. (116.6 kg)

### B472
**Double Reel Rack Support on Double Channel for 2” (50) Pipe**
- Standard finishes: ZN, GRN
- Wt./C 299 Lbs. (135.6 kg)

---

Reference page 106 for general fitting and standard finish specifications.
B438 Pipe Support Bracket
- Standard finishes: ZN, GRN
- Material: ASTM A36
- Wt./C 132 Lbs. (59.9 kg)

B439 Pipe Support Bracket
- Standard finishes: ZN, GRN
- Wt./C 88 Lbs. (39.9 kg)

B411 Series Ladder Rungs
- Standard finishes: ZN, GRN

B587-1/2, 3/4 & 1 Pipe Coupling Fitting
- Safety Factor of 2.5
- Standard finishes: ZN, GRN

Part No. | Part For Pipe Size | Wt./C Lbs. kg | Design Load Lbs. kN
--- | --- | --- | ---
B587-1/2 | 1/2” (15) | 77 (34.9) | 1000 (4.45)
B587-3/4 | 3/4” (20) | 84 (38.1) | 1400 (6.23)
B587-1 | 1” (25) | 105 (47.6) | 1900 (8.45)

Reference page 106 for general fitting and standard finish specifications.
### B349 Trolley Beam Support
- **Design Load**: 1200 Lbs. (5.34 kN)
- **Safety Factor**: 2.5
- **Use**: 3/8” x 3” bolts in side hole to clamp strut together (not included)
- **Standard finishes**: ZN, GRN
- **Wt./C**: 107 Lbs. (48.5 kg)

### B350 Trolley Beam Joint Support
- **Design Load**: 1200 Lbs. (5.34 kN)
- **Use**: 3/8” x 3” bolts in side hole to clamp strut together (not included)
- **Standard finishes**: ZN, GRN
- **Wt./C**: 233 Lbs. (105.7 kg)

### B614 Column Support for B22
- **Quick installation**: (one bolt to tighten)
- **Design Load**: 800 Lbs. (3.56 kN) Slip with Safety Factor of 3
- **Use**: with B22 and B24 Channel
- **Sold in pairs**
- **Standard finish**: ZN
- **Wt./C**: 50 Lbs. (22.6 kg)

### B613 Column Support for B22
- **Design Load**: 800 Lbs. (3.56 kN) Slip with Safety Factor of 3
- **Use**: with B22 and B24 Channel
- **Setscrews to be torqued to**: 19 ft./Lbs
- **Sold in pairs**
- **Standard finishes**: ZN, GRN, HDG
- **Wt./C**: 100 Lbs. (45.3 kg)

### B613A Column Support for B52
- **Design Load**: 800 Lbs. (3.56 kN) Slip with Safety Factor of 3
- **Use**: with B52 and B54 Channel
- **Setscrews to be torqued to**: 19 ft./Lbs
- **Sold in pairs**
- **Standard finishes**: ZN, GRN, HDG
- **Wt./C**: 100 Lbs. (45.3 kg)

### B560 45° Stair Support
- **Standard finishes**: ZN, GRN
- **Wt./C**: 220 Lbs. (99.8 kg)

### B562 371/2° Stair Support
- **Standard finishes**: ZN, GRN
- **Wt./C**: 206 Lbs. (93.4 kg)

---

Reference page 106 for general fitting and standard finish specifications.
**B376 Four Bearing Trolley Assembly**
- Safety Factor of 2.5
- Stainless steel ball bearings
- Not for continuous cycling applications
- Standard finishes: ZN
- Wt./C 110 Lbs. (49.9 kg)

**B377 Two Bearing Trolley Assembly**
- Safety Factor of 2.5
- Stainless steel ball bearings
- Not for continuous cycling applications
- Standard finishes: ZN
- Wt./C 48 Lbs. (21.8 kg)

**B377P With Plastic Bearings**
- Design Load 10 Lbs. (.045 kN)

**B377H Two Bearing Light Duty Trolley Assembly with Eye Hook**
- Design Load 50 Lbs. (22 kN)
- Safety Factor of 2.5
- Stainless steel ball bearings
- Not for continuous cycling applications
- Material: 12 Gauge (2.6) ASTM A1011
- 33,000 PSI min. yield
- Standard finishes: ZN
- Wt./C 36 Lbs. (16.3 kg)

**B378 Four Bearing Light Duty Trolley Assembly**
- Design Load 100 Lbs. (.44 kN)
- Safety Factor of 2.5
- Stainless steel ball bearings
- Not for continuous cycling applications
- Material: 12 Gauge (2.6) ASTM A1011
- 33,000 PSI min. yield
- Standard finishes: ZN
- Wt./C 68 Lbs. (30.8 kg)

**B378P With Plastic Bearings**
- Design Load 20 Lbs. (.090 kN)

**B477 Two Bearing Light Duty Trolley Assembly**
- Design Load 50 Lbs. (22 kN)
- Safety Factor of 2.5
- Stainless steel ball bearings
- Not for continuous cycling applications
- Material: 12 Gauge (2.6) ASTM A1011
- 33,000 PSI min. yield
- Standard finishes: ZN
- Wt./C 30 Lbs. (13.6 kg)

**B477P With Plastic Bearings**
- Design Load 10 Lbs. (.045 kN)

**B478 Four Bearing Light Duty Trolley Assembly with Eye Hook**
- Design Load 100 Lbs. (.44 kN)
- Safety Factor of 2.5
- Stainless steel ball bearings
- Not for continuous cycling applications
- Material: 12 Gauge (2.6) ASTM A1011
- 33,000 PSI min. yield
- Standard finishes: ZN
- Wt./C 72 Lbs. (32.6 kg)

**B478P With Plastic Bearings**
- Design Load 20 Lbs. (.090 kN)

**Design Load**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Lbs.</th>
<th>kN</th>
<th>RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>300</td>
<td>1.33</td>
<td>.67</td>
<td>600</td>
</tr>
<tr>
<td>450</td>
<td>2.00</td>
<td>1.00</td>
<td>300</td>
</tr>
<tr>
<td>600</td>
<td>2.67</td>
<td>1.94</td>
<td>100</td>
</tr>
</tbody>
</table>

Reference page 106 for general fitting and standard finish specifications.
## B-Line Series Strut Systems

### B203-B206 & B220-B223
**Channel End Caps Type X**
- **Material:** ASTM A1011 CS Type B
- **Standard finishes:** ZN, GRN, HDG, SS4, AL

### B283-B286
**Channel End Caps**
- **Material:** ASTM A1011 33,000 PSI min. yield
- **Standard finishes:** ZN, GRN

### B287 & B288
**Channel End Caps**
- **Material:** ASTM A1011 33,000 PSI min. yield
- **Standard finishes:** ZN, GRN

### B3322, B3332, B3342, B3352
**Anchor End Caps Type Y**
- **Material:** ASTM A1011 33,000 PSI min. yield
- **Standard finishes:** ZN

### Part Use Wt./C
**No. With Lbs. kg**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Use With</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>B203</td>
<td>B42</td>
<td>6 (2.7)</td>
</tr>
<tr>
<td>B204</td>
<td>B54</td>
<td>5 (2.2)</td>
</tr>
<tr>
<td>B205</td>
<td>B22</td>
<td>10 (4.5)</td>
</tr>
<tr>
<td>B206</td>
<td>B32</td>
<td>8 (3.6)</td>
</tr>
<tr>
<td>B220</td>
<td>B52</td>
<td>4 (1.8)</td>
</tr>
<tr>
<td>B221</td>
<td>B12</td>
<td>15 (6.8)</td>
</tr>
<tr>
<td>B222</td>
<td>B11</td>
<td>20 (9.1)</td>
</tr>
<tr>
<td>B223</td>
<td>B24</td>
<td>10 (4.5)</td>
</tr>
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</table>

### Part Use Wt./C
**No. With Lbs. kg**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Use With</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>B287</td>
<td>B22</td>
<td>13 (5.9)</td>
</tr>
<tr>
<td>B288</td>
<td>B24</td>
<td>14 (6.3)</td>
</tr>
</tbody>
</table>

### B822
**Plastic End Cap for B22 & B24**
- **Material:** Polyvinyl Chloride (PVC/ Vinyl)
- **Withstands intermittent temperatures up to 350°F (177°C) and 200°F (93°C) continuous**
- **Wt./C 3 Lbs. (1.3 kg)**
- **Available in colors: White (W), Yellow (Y), Black (BLK), Gray (GRY), Green (GRN)**

### B822A
**Plastic End Cap for B22A & B11**
- **Material:** Polyvinyl Chloride (PVC/ Vinyl)
- **Withstands intermittent temperatures up to 350°F (177°C) and 200°F (93°C) continuous**
- **Wt./C 5 Lbs. (2.2 kg)**
- **Available in colors: White (W), Yellow (Y), Black (BLK), Gray (GRY), Green (GRN)**

### B852
**Plastic End Cap for B52**
- **Material:** Polyvinyl Chloride (PVC/ Vinyl)
- **Withstands intermittent temperatures up to 350°F (177°C) and 200°F (93°C) continuous**
- **Wt./C 2.5 Lbs. (1.1 kg)**
- **Available in colors: White (W), Yellow (Y), Black (BLK), Gray (GRY), Green (GRN)**

Reference page 106 for general fitting and standard finish specifications.
B823
Profile End Caps
- Material: Polyvinyl Chloride (PVC/Vinyl)
- Withstands intermittent temperatures up to 350°F (177°C) and 200°F (93°C) continuous
- Available in colors: White (W), Yellow (Y), Black (BLK), Gray (GRY), Green (GRN)

Approx. 3/4” deep (19.0)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Fits Channel Sizes</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>B823-22A</td>
<td>B22A, B24A, B26A</td>
<td>6.9 (3.1)</td>
</tr>
<tr>
<td>B823-22</td>
<td>B22, B24, B26</td>
<td>4.1 (1.8)</td>
</tr>
<tr>
<td>B823-42</td>
<td>B42</td>
<td>3.8 (1.7)</td>
</tr>
<tr>
<td>B823-52</td>
<td>B52, B54, B56</td>
<td>3.5 (1.6)</td>
</tr>
</tbody>
</table>

B825
Plastic End Caps
- Material: Polyurethane
- Available in colors: Gray (GRY), Green (GRN)

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Fits Channel Sizes</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>B825-22</td>
<td>B22 &amp; B24</td>
<td>2.0 (0.9)</td>
</tr>
<tr>
<td>B825-52</td>
<td>B52 &amp; B54</td>
<td>1.0 (0.4)</td>
</tr>
</tbody>
</table>

B408SLBVNS Series
Stand-Off Brackets
- Material: 1/4” (6.3)
- Standard Finishes: HDG, ZN, GRN
- For pipe or rigid conduit sizes of 1 1/2” (40) and 2” (50) use with B501 Series ‘U’-Bolts (see page 53)
- For strut channels 1 5/8” (41.3) wide use with B500 Series Square ‘U’-Bolts (see page 53)
- Hardware is not included

<table>
<thead>
<tr>
<th>Part No.</th>
<th>A (In. /mm)</th>
<th>Wt./C</th>
</tr>
</thead>
<tbody>
<tr>
<td>B408SLBVNS</td>
<td>3 1/2” (88.9)</td>
<td>189 (85.7)</td>
</tr>
<tr>
<td>B408SLBVNS1</td>
<td>3” (76.2)</td>
<td>220 (99.8)</td>
</tr>
<tr>
<td>B408SLBVNS2</td>
<td>2” (50.8)</td>
<td>236 (107.0)</td>
</tr>
</tbody>
</table>

Strut Fittings

Reference page 106 for general fitting and standard finish specifications.