



# SUPPORT SYSTEMS ENGINEERING CATALOG



ZSIINC.COM

WZ-S1





The **Ideal Tridon Group** has comprehensive offerings of highly engineered critical components used in supporting, securing, and connecting the movement of air, fluid, and electricity in critical applications. We are a growing family of brands, all known for their superior subject matter expertise.

**Our Products**

Hose clamps • Strut & Support Systems • Hose Fittings & Couplings • & more!

**Our Values**

Devotion to Customers • Passion for Growth • Outstanding Quality

**Our Brands**

| Support. | Secure.  | Connect.         |
|----------|----------|------------------|
| <br><br> | <br><br> | <br><br><br><br> |

**Product Part Number Dimension Tables**

Below is an example of part number dimension tables used throughout this catalog. This table shows all three Metal Framing companies in the Ideal Tridon Group however in order to Streamline our Support Product Offerings the Versabar and Florida Strut Brands and Part Numbers are being Discontinued and Converted into the Wesanco Brand and Part Numbers.

| SPECIFYING Brand & Part No. | Dimension Data Information | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------------------|--------------------------------|---------------|
|                             |                            | VERSABAR                       | FLORIDA STRUT |
| W5142                       | 3" (76mm)                  | VF2205A                        | L14           |
| W5143                       | 3-1/2" (89mm)              | VF2205B                        | L15           |
| W5144                       | 4" (102mm)                 | VF2205C                        | L16           |

Below is an example part number dimension table used throughout this catalog. These are Wesanco or ZSI Products All parts are available thru your ITG representative.

| Part No. | Nominal Pipe Size | Dimensions      |                 |
|----------|-------------------|-----------------|-----------------|
|          |                   | "A"             | "B"             |
| CG-10    | 1/4"              | 1-15/16" (49mm) | 1-15/16" (49mm) |
| CG-20    | 3/8"              | 2-3/8" (60mm)   | 2-3/8" (60mm)   |

See page 23 for Material or Finish ordering codes for use in part numbers.

**Warranty:**

Every Wesanco & ZSI product has been carefully inspected during manufacturing, and prior to shipment.

We guarantee to correct any defect called to our attention in writing within six months after shipment, caused by faulty material or workmanship.

The buyers exclusive remedy shall be repair and/or replacement, at Wesanco's & ZSI's discretion, of the defective parts.

The parties further agree that no other remedy (including but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, negligence in the design, installation, or repair of the product, or any other incidental or consequential loss) shall be available.

The parties further agree that all other warranties, express or implied (including but not limited to, any implied warranty of merchantability or fitness for a particular purpose) are excluded.



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We reserve the right to make specification changes without notice. While every effort has been made to assure the accuracy of information contained in this catalog at the time of publication, we cannot accept responsibility for inaccuracies resulting from undetected errors or omissions.

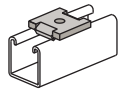
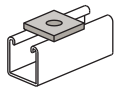
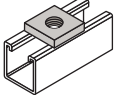
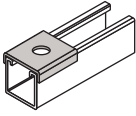
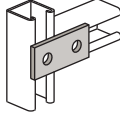
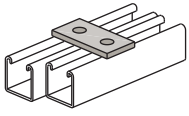
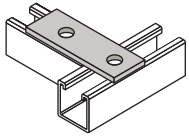
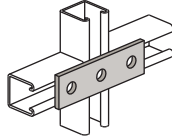
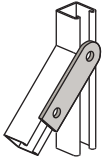
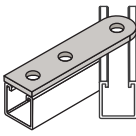
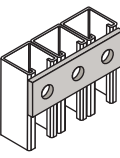
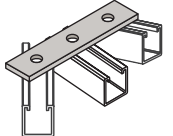
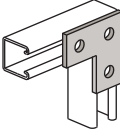
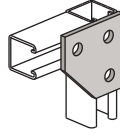
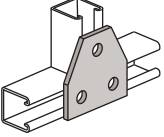
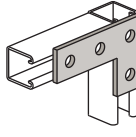
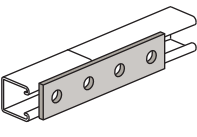
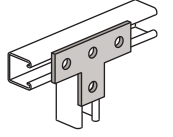
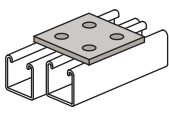
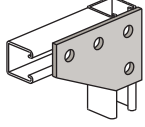
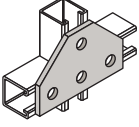
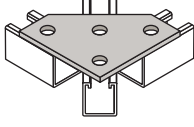
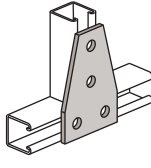
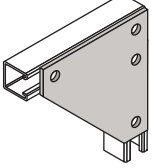
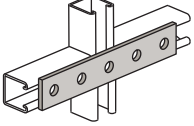
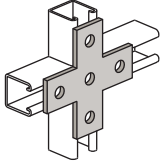
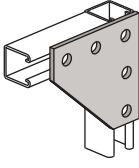
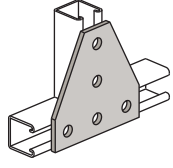
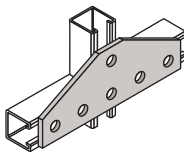
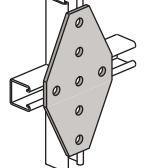
## Channel

| Channel  |  |  |  |  |  |
|--|--|--|--|--|--|
| Channel Information  |  | 1 <sup>5</sup> / <sub>8</sub> " x 1 <sup>5</sup> / <sub>8</sub> " (41 x 41mm)<br>12 & 14 Gauge | 1 <sup>5</sup> / <sub>8</sub> " x 3 <sup>1</sup> / <sub>4</sub> " (41 x 83mm)<br>12 & 14 Gauge | 1 <sup>5</sup> / <sub>8</sub> " x 1 <sup>3</sup> / <sub>8</sub> " (41 x 35mm)<br>12 Gauge  | 1 <sup>5</sup> / <sub>8</sub> " x 2 <sup>3</sup> / <sub>4</sub> " (41 x 70mm)<br>12 Gauge          |
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| 1 <sup>5</sup> / <sub>8</sub> " x 1" (41 x 25mm)<br>12 Gauge   | 1 <sup>5</sup> / <sub>8</sub> " x 2" (41 x 51mm)<br>12 Gauge                               | 1 <sup>5</sup> / <sub>8</sub> " x 7 <sup>8</sup> / <sub>16</sub> " (41 x 22mm)<br>12 Gauge     | 1 <sup>5</sup> / <sub>8</sub> " x 1 <sup>3</sup> / <sub>4</sub> " (41 x 44mm)<br>12 Gauge      | 1 <sup>5</sup> / <sub>8</sub> " x 1 <sup>3</sup> / <sub>16</sub> " (41 x 21mm)<br>12, 14, & 16 Gauge   | 1 <sup>5</sup> / <sub>8</sub> " x 1 <sup>5</sup> / <sub>8</sub> " (41 x 41mm)<br>12, 14 & 16 Gauge |
| <b>W800 Series</b>   | <b>W801 Series</b>   | <b>W900 Series</b>   | <b>W901 Series</b>   | <b>W510, W500, W400 Series</b>   | <b>W511, W501, W401 Series</b>   |
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| 1 <sup>5</sup> / <sub>8</sub> " x 2 <sup>1</sup> / <sub>2</sub> " (41 x 64mm)<br>12 Gauge  | 1 <sup>5</sup> / <sub>8</sub> " x 5" (41 x 127mm)<br>12 Gauge                              | 1 <sup>5</sup> / <sub>8</sub> " x 2 <sup>7</sup> / <sub>16</sub> " (41 x 62mm)<br>12 Gauge     | 1 <sup>5</sup> / <sub>8</sub> " x 4 <sup>7</sup> / <sub>8</sub> " (41 x 124mm)<br>12 Gauge     | 1 <sup>5</sup> / <sub>8</sub> " x 3 <sup>1</sup> / <sub>4</sub> " (41 x 83mm)<br>12 Gauge  | 1 <sup>5</sup> / <sub>8</sub> " x 6 <sup>1</sup> / <sub>2</sub> " (41 x 165mm)<br>12 Gauge         |
| <b>W170 Series</b>   | <b>W171 Series</b>   | <b>W100 Series</b>   | <b>W101 Series</b>   | <b>W150 Series</b>   | <b>W151 Series</b>   |
|  |  |  |  |  |  |
| Pages 55 - 56  |  | Pages 57 - 59  |  | Pages 60 - 63  |  |
| 1 <sup>3</sup> / <sub>16</sub> " x 1 <sup>3</sup> / <sub>16</sub> " (21 x 21mm)<br>19 Gauge  | 1 <sup>3</sup> / <sub>16</sub> " x 1 <sup>5</sup> / <sub>8</sub> " (21 x 41mm)<br>19 Gauge | 1 <sup>3</sup> / <sub>16</sub> " x 1 <sup>3</sup> / <sub>32</sub> " (21 x 10mm)<br>19 Gauge    | 1 <sup>3</sup> / <sub>16</sub> " x 1 <sup>3</sup> / <sub>16</sub> " (21 x 21mm)<br>19 Gauge    | <b>Light, Medium, &amp; Heavy Duty Slotted Angle</b>   |  |
| <b>W600 Series</b>   | <b>W601 Series</b>   | <b>W700 Series</b>   | <b>W701 Series</b>   |  |  |
|  |  |  |  | SLA0150 - Light Duty - 1 <sup>1</sup> / <sub>2</sub> " x 1 <sup>1</sup> / <sub>2</sub> " (38 x 38mm)<br>SLA0225 - Medium Duty - 2 <sup>1</sup> / <sub>4</sub> " x 1 <sup>1</sup> / <sub>2</sub> " (57 x 38mm)<br>SLA0300 - Heavy Duty - 3" x 1 <sup>1</sup> / <sub>2</sub> " (76 x 38mm) |  |
| Pages 64 - 65  |  | Pages 66 - 67  |  | Page 68  |  |

## Channel Nuts & Hardware

| Channel Nuts and Hardware            |                                  |                                |  |  |   | Introduction            |
|--------------------------------------|----------------------------------|--------------------------------|--|--|---|-------------------------|
| Channel Nut Without Spring           | Channel Nut with Standard Spring | Channel Nut with Short Spring  | Channel Nut with Long Spring                 | Mini Nut with Standard or Short Spring | Channel Nut With Cone                     |                         |
| W2-xWS Series                        | W2-x Series                      | W5-x Series                    | W1-x Series                                  | W6-x & W7-x Series                     | W2-xCN Series                             | Channel                 |
|                                      |                                  |                                |  |  |   |                         |
| Page 72                              | Page 72                          | Page 73                        | Page 73                                      | Page 73                                | Page 74                                   | Channel Nuts & Hardware |
| <b>Twist-Nut Channel Nut</b>         | <b>Seismic Rod Stiffener</b>     | <b>Channel Nut Top Spring</b>  | <b>Combination Washer &amp; Channel Nuts</b> | <b>Double Conveyor Adjusting Nut</b>   | <b>Stud Nut with Short Spring</b>         |                         |
| W2-xTN Series                        | B2486                            | W2-xTL Series                  | B2-xNW Series                                | W6608                                  | W5-3SN                                    | General Fittings        |
|                                      |                                  |                                |  |  |   |                         |
| Page 74                              | Page 74                          | Page 74                        | Page 74                                      | Page 75                                | Page 75                                   | Brackets                |
| <b>Stud Nut with Standard Spring</b> | <b>Stud Nut with Long Spring</b> | <b>Stud Nut Without Spring</b> | <b>Scissor Square Washer Nut</b>             | <b>Light Duty Channel Nut</b>          | <b>Light Duty Stud Nut</b>                |                         |
| W4-xSN – W10-xSN Series              | W4-xSNL – W10-xSNL Series        | W4-xSNWS – W10-xSNWS Series    | QN25 – QN50                                  | W6461                                  | W4-100LDSN                                | Beam Clamps             |
|                                      |                                  |                                |  |  |   |                         |
| Page 75                              | Page 76                          | Page 76                        | Page 77                                      | Page 77                                | Page 77                                   | Pipe & Conduit Supports |
| <b>Rod Coupling</b>                  | <b>Threaded Rod</b>              | <b>Flathead Machine Screws</b> | <b>Hex Head Cap Screw</b>                    | <b>Roundhead Machine Screws</b>        | <b>Slotted Indented Hex Machine Screw</b> |                         |
| W7134 – W7138                        | W7124 – W7128                    | FLMS Series                    | HHCS Series                                  | RHMS Series                            | SLHHCS Series                             | Electrical Fittings     |
|                                      |                                  |                                |  |  |   |                         |
| Page 77                              | Page 78                          | Page 78                        | Page 78                                      | Page 78                                | Page 79                                   | Spring Steel            |
| <b>Hex Nut</b>                       | <b>Square Nuts</b>               | <b>Kep Nuts</b>                | <b>Flat Washer</b>                           | <b>Lock Washers</b>                    | <b>Fender Washers</b>                     |                         |
| HN25 – HN75                          | SQN25 – SQN62                    | KN25 – KN38                    | FW25 – FW75                                  | LW25 – LW62                            | FEN25 – FEN50                             | Concrete Inserts        |
|                                      |                                  |                                |  |  |   |                         |
| Page 79                              | Page 79                          | Page 79                        | Page 79                                      | Page 79                                | Page 79                                   | Rooftop Supports        |
| <b>Swivel Female</b>                 | <b>Swivel Female - Female</b>    | <b>Swivel Male</b>             | <b>Swivel Male - Female</b>                  |  |   |                         |
| W6905 & W6906                        | W6915 & W6916                    | W6910 & W6911                  | W6920 & W6921                                |  |   | Fiberglass System       |
|                                      |                                  |                                |  |  |   |                         |
| Page 80                              | Page 80                          | Page 80                        | Page 80                                      |  |   | Technical Data          |

## Flat Plate Fittings

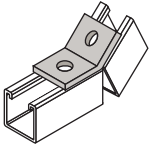
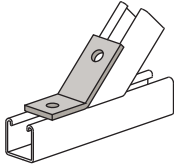
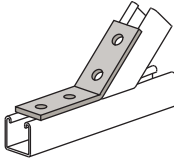
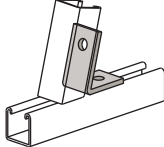
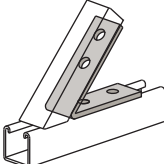
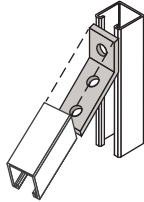
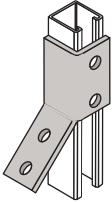
| Flat Plate Fittings   |   |   |  |   |   |
|---|---|---|--|---|---|
| <b>Square Washer with Channel Guide</b>   | <b>Square Washer</b>  | <b>Square Washer with Threaded Hole</b>   | <b>Square Washer with Clip on Guide</b>  | <b>2-Hole Splice Plate</b>  | <b>2 Hole Parallel Splice Plate</b>   |
| W5051 – W5057   | W5002 – W5006   | W5053T – W5055T   | W5052U – W5056U  | W5007   | W5013   |
|    |    |    |     |    |    |
| Page 82   | Page 82   | Page 82   | Page 82  | Page 82   | Page 83   |
| <b>2-Hole Perpendicular Splice Plate</b>  | <b>3-Hole Splice Plate</b>  | <b>2-Hole Swivel Plate</b>  | <b>3-Hole Swivel Brace Connector</b>   | <b>3-Hole Flat Plate</b>  | <b>3-Hole Flat Plate</b>  |
| W5015   | W5008   | W5011   | W5012  | W5016   | W5017   |
|    |    |    |     |    |    |
| Page 83   | Page 83   | Page 83   | Page 83  | Page 83   | Page 84   |
| <b>3-Hole Flat Angle Plate</b>  | <b>3-Hole Corner Gusset Plate</b>   | <b>3-Hole Tee Gusset Plate</b>  | <b>4-Hole Extended Flat Angle</b>  | <b>4-Hole Splice plate</b>  | <b>4-Hole Tee Plate</b>   |
| W5021   | W5030   | W5031   | W5025  | W5009   | W5022   |
|   |   |   |    |   |   |
| Page 84   | Page 84   | Page 84   | Page 84  | Page 84   | Page 85   |
| <b>4-Hole Parallel Splice Plate</b>   | <b>4-Hole Corner Plate</b>  | <b>4-Hole Triangle Flat Plate</b>   | <b>4-Hole Double Brace Connector</b>   | <b>4-Hole Gusset Plate</b>  | <b>4-Hole Corner Gusset Plate</b>   |
| W5014   | W5024   | W5018   | W5019  | W5026   | W5036   |
|  |  |  |  |  |  |
| Page 85   | Page 85   | Page 85   | Page 85  | Page 85   | Page 86   |
| <b>5-Hole Splice Plate</b>  | <b>5-Hole Cross Plate</b>   | <b>5-Hole Corner Gusset Plate</b>   | <b>Five Hole Gusset Plate</b>  | <b>6-Hole Gusseted Cross Connector</b>  | <b>7-Hole Cross Gusset Plate</b>  |
| W5010   | W5023   | W5028   | W5027  | W5037   | W5029   |
|  |  |  |  |  |  |
| Page 86   | Page 86   | Page 86   | Page 86  | Page 86   | Page 87   |

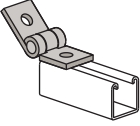
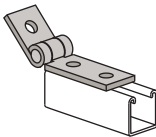
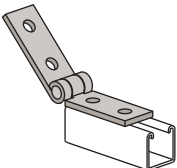
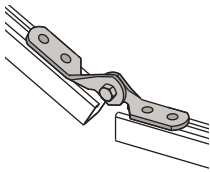
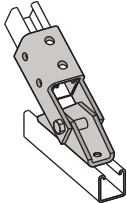
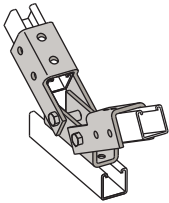
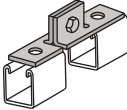
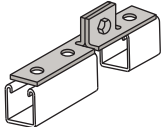
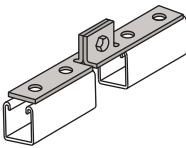
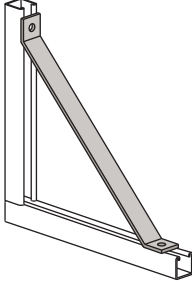
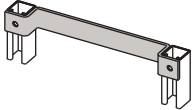
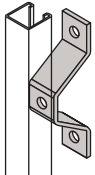
## 90° Angle Fittings

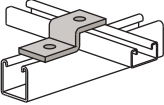
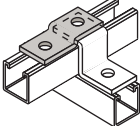
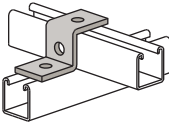
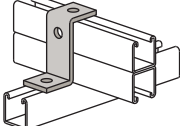
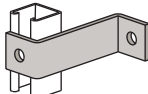
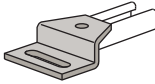
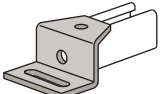
| 90° Angle Fittings                     |   |                                    |                                  |  |  |                                  | Introduction            |
|--|---|------------------------------------|----------------------------------|--|--|----------------------------------|-------------------------|
| 1-Hole Angle Washer with Threaded Hole | 2-Hole Corner Angle Washer with Threaded Hole | 2-Hole End Connector               | 2-Hole Rack Connector            | 2-Hole Rack Connector with 2-End Notches | 2-Hole Rack Connector with 1-End Notch | 3-Hole Column Stringer Connector |                         |
| W5160                                  | W5142 – W5144                                 | W5103                              | W5102                            | W5104                                    | W5101                                  | W5113                            | Channel                 |
|  |   |                                    |                                  |  |  |                                  |                         |
| Page 87                                | Page 87                                       | Page 87                            | Page 87                          | Page 88                                  | Page 88                                | Page 88                          | Channel Nuts & Hardware |
| 3-Hole End Connector                   | 3-Hole Rack Corner Angle                      | 3-Hole Angle Connector, LH or RH   | 4-Hole Angle Connector, LH or RH | 3-Hole Angle Connector, LH or RH         | 4-Hole Offset Corner Angle             | 4-Hole, 2-Column Strut Splice    | General Fittings        |
| W5112                                  | W5115   | W5135 & W5136                      | W5140 & W5141                    | W5138 & W5139                            | W5137                                  | W5126                            |                         |
|  |   |                                    |                                  |  |  |                                  |                         |
| Page 88                                | Page 88                                       | Page 88                            | Page 89                          | Page 89                                  | Page 89                                | Page 89                          | Brackets                |
| 3-Hole Rack Splice                     | 4-Hole Rack Splice Connector                  | 4-Hole Corner Connector            | 4-Hole Rack Corner Angle         | 5-Hole Cross With 90° Angle Leg          | 4-Hole Post Stringer, LH or RH         | 5-Hole Right Hand Gusset Angle   | Beam Clamps             |
| W5110                                  | W5109   | W5125                              | W5123                            | W5152                                    | W5133 & W5134                          | W5118                            |                         |
|  |   |                                    |                                  |  |  |                                  |                         |
| Page 89                                | Page 89                                       | Page 90                            | Page 90                          | Page 90                                  | Page 90                                | Page 90                          | Pipe & Conduit Supports |
| 4-Hole Gusset Corner Angle, LH or RH   | 5-Hole Corner Splice                          | 6-Hole, 3-Way Mid Column Connector | Universal Corner Angle           | 6-Hole Gusset Corner Angle, LH or RH     | 3-Hole Right Angle End Splice          | 4-Hole Right Angle End Splice    | Electrical Fittings     |
| W5122 & W5121                          | W5117   | W5154                              | W5124 & W5124W                   | W5156 & W5157                            | W5158                                  | W5159                            |                         |
|  |   |                                    |                                  |  |  |                                  |                         |
| Page 90                                | Page 91                                       | Page 91                            | Page 91                          | Page 91                                  | Page 91                                | Page 91                          | Spring Steel            |
| 2-Hole Vertical Adjustment Angle       | 2-Hole Horizontal Adjustment Angle            | Two Hole Adjustment Angle          | Two Hole Adjustment Angle        | 3-Hole Adjustment Angle                  | 3-Hole Adjustment Angle                |                                  | Roofop Supports         |
| W5106                                  | W5105   | W5107                              | W5108                            | W5111                                    | W5153                                  |                                  |                         |
|  |   |                                    |                                  |  |  |                                  | Fiberglass System       |
| Page 92                                | Page 92                                       | Page 92                            | Page 92                          | Page 92                                  | Page 92                                |                                  | Technical Data          |



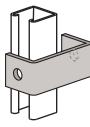
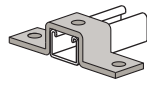
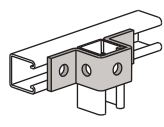
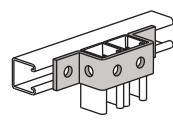
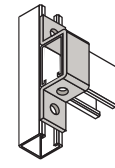
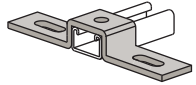
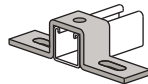
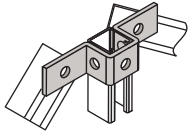
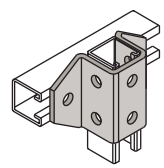
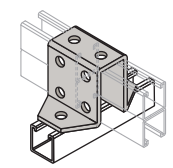
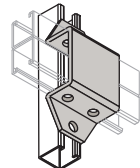
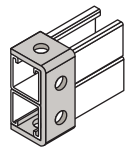
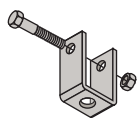
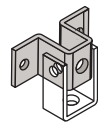
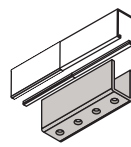
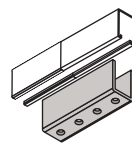
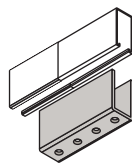



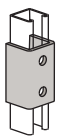


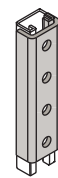

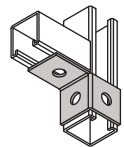
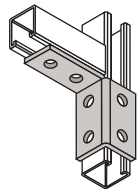
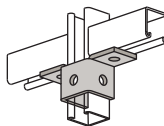
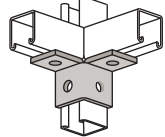
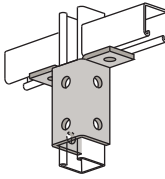
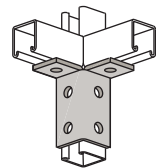
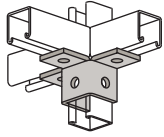
## Angle, Brace, & “Z” Shaped Fittings

| Angle Fittings  |   |   |   |  |   |   |
|---|---|---|---|--|---|---|
| 2-Hole Small Open Angle   | 2-Hole Open Angle   | 4-Hole Open Angle   | 2-Hole Closed Angle   | 4-Hole Closed Angle  | 3-Hole 45° Open Angle   | 4-Hole Angle Wing Fitting, LH or RH   |
| W5470-x Series  | W5420 – W5430   | W5440 – W5450   | W5460 – W5466   | W5410 – W5417  | W5431   | W5562L & W5562R   |
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| Brace Fittings  |   |   |  |   |   |
|---|---|---|--|---|---|
| Two-Hole Adjustable Hinge   | Three-Hole Adjustable Hinge   | Four-Hole Adjustable Hinge  | Four-Hole Adjustable Angle   | Single Adjustable Angle Brace   | Double Adjustable Angle Brace   |
| B5490   | B5491   | B5492   | B5495  | W5480   | W5485   |
|    |    |    |    |    |    |
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| 2-Hole Adjustable Hinge Fitting   | 3-Hole Adjustable Hinge Fitting   | 4-Hole Adjustable Hinge Fitting   | 45° Angular Corner Brace   | Utility Vault Ladder Rung   | Ladder Assembly Fitting   |
| W5496   | W5497   | W5498   | W5471 – W5475  | W10236 – W102324  | W1017B – W1017F   |
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| “Z” Shape Fittings  |   |   |   |  |   |   |
|---|---|---|---|--|---|---|
| 2-Hole Z Fitting  | 2-Hole Offset Support   | Three Hole Z Fitting  | Z Fitting For Double Square Channel   | 2-Hole Z Connector   | Adjustable Z Connector  | Adjustable Z Connector  |
| W5209 – W5215   | W5203   | W5212   | W5210   | W5224 – W5228  | W5205   | W5202   |
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## “U” Shaped & Wing Fittings

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|---|---|---|---|---|---|---|-------------------|
| Two-Hole U-Fitting Clevis   | 3-Hole “U” Support  | 5-Hole “U” Support for 1-5/8” Channel   | 6-Hole U-Fitting for 1-5/8” Double Channel  | 4-Hole Strap For 2-1/2” Channel   | 1-Hole U-Fitting 2 Slot for 13/16” Channel  |   |                   |
| W5324 – W5328   | W5315 – W5321   | W5312   | W5317   | W5322   | W5305   | Channel   |                   |
|    |    |    |   |    |    |   |                   |
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| <b>1-Hole U-Fitting 2 Slot for 1-5/8” Channel</b>                                   | <b>Connector For Double Diagonal Brace</b>  | <b>8-Hole U-Fitting for 1-5/8” Channel</b>  | <b>12-Hole U-Fitting for 3-3/4” Channel</b>   | <b>6-Hole U-Fitting for 3-3/4” Channel</b>  | <b>4-Hole “C” Fitting 3-3/4” Inside</b>   |   |                   |
| W5307 – W5310   | W5330   | W5319   | W5323   | W5329   | W5301   | General Fittings  |                   |
|    |    |    |   |    |    |   |                   |
| Page 100  | Page 101  | Page 101  | Page 101  | Page 101  | Page 102  | Brackets  |                   |
| <b>Swing Clevis</b>   | <b>Swing Clevis Adapter</b>   | <b>4-Hole U-Fitting Splice for 2-1/2” Channel</b>                                   | <b>4-Hole U-Fitting Splice for 2-7/16” Channel</b>                                  | <b>4-Hole U-Fitting Splice for 3-3/4” Channel</b>                                     | <b>2-Hole Splice for 13/16” Channel</b>   |   |                   |
| W5350   | W5351   | W5340   | W5349   | W5348   | W5342   | Beam Clamps   |                   |
|  |  |   |   |   |  |   |                   |
| Page 102  | Page 102  | Page 102  | Page 102  | Page 102  | Page 103  | Pipe & Conduit Supports   |                   |
| <b>2-Hole U-Fitting Splice for 1-5/8” Channel</b>                                   | <b>3-Hole Splice for 13/16” Channel</b>   | <b>3-Hole U-Fitting Splice for 1-5/8” Channel</b>                                   | <b>4-Hole Splice for 13/16” Channel</b>   | <b>4-Hole U-Fitting Splice for 1-5/8” Channel</b>                                     |  |   |                   |
| W5344   | W5343   | W5346   | W5347   | W5345   |  | Electrical Fittings   |                   |
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| <b>Wing Fittings</b>  |   |   |   |   |   |   | Concrete Inserts  |
| <b>3-Hole Wing Fitting Single Corner, LH or RH</b>                                  | <b>6-Hole, 1-Way Extended Wing, LH or RH</b>  | <b>5-Hole Wing Fitting Corner Connector Opposed</b>                                 | <b>4-Hole Wing Fitting Double Corner</b>  | <b>8-Hole Wing Fitting Corner Connector Opposed</b>                                   | <b>6-Hole Wing Fitting Double Corner</b>  | <b>6-Hole Wing Fitting Triple Corner</b>  |                   |
| W5511 – W5510   | W5146 – W5147   | W5513   | W5512   | W5519   | W5518   | W5514   | Roofop Supports   |
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|   |   |   |   |   |   | Technical Data  |                   |

## Wing Fittings (cont.) & Post Bases

| Wing Fittings                        |   |   |  |  |                                      |  |
|--------------------------------------|---|---|--|--|--------------------------------------|--|
| 10-Hole Base Wing Fitting            | 9-Hole Wing Fitting Triple Corner               | 10-Hole Wing Fitting Corner Opposed       | 8-Hole Wing Fitting Double Corner                  | 12-Hole Wing Fitting Triple Corner       | 1-Way Extended Gusset Wing, LH or RH | 8-Hole Wing Fitting Double Corner Gusset |
| W5524                                | W5517   | W5523                                     | W5515  | W5522                                    | W5148 & W5149                        | W5516                                    |
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| 10-Hole Corner Opposed Double Gusset | 8-Hole Wing Fitting Double Corner Double Gusset | 12-Hole Wing Fitting Triple Corner Gusset | 6-Hole Wing Fitting Single Corner Gusset, LH or RH | 8-Hole Double Corner Gussetted Connector |                                      |  |
| W5520                                | W5531   | W5521                                     | W5524L & W5524R                                    | W5525                                    |                                      |  |
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| Post Bases  |   |   |   |  |
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| Rectangular Plate 8-Hole Post Base Single Channel | Rectangular Plate 8-Hole Post Base Single Channel | Rectangular Plate 5-Hole Flush Single Channel | Rectangular Plate 8-Hole Flush Single Channel | Double Channel Stand/Wall Flush 6-Hole               |
| W5810   | W5810FL   | W5813FL                                       | W5814FL                                       | W5815FL  |
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| Page 107  | Page 107  | Page 107                                      | Page 107                                      | Page 108   |
| Double Channel Stand/Wall Flush 10-Hole Post Base | Post Base Single Channel 7-Hole Standard          | Post Base Single Channel 7-Hole Square        | Post Base Single Channel 10-Hole Standard     | Post Base Single Channel 10-Hole Standard            |
| W5816FL   | W5813   | W5813SQ                                       | W5814   | W5814SQ  |
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| Post Base Double Channel 8-Hole Standard          | Post Base Double Channel 8-Hole Standard          | Post Base Double Channel 12-Hole Standard     | Post Base Double Channel 12-Hole Square       | Post Base Double Channel 14-Hole Square 3-1/2" Boxed |
| W5815   | W5815SQ   | W5816   | W5816SQ                                       | W5817  |
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| Post Base Quad-Channel 20-Hole Square | Rectangular Plate 6-Hole Post Base Double Channel Short Clevis | Post Base Single Channel Gusset 8-Hole Square | Post Base Double Channel 5-Hole |  |
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| Trolley Support 3 Hole Standard | Trolley Support 3 Hole Heavy Duty | Two Wheel Trolley | Four Wheel Trolley | Two Wheel Trolley | Four Wheel Trolley | Four Wheel Trolley | Four Wheel Trolley with Swivel Loop |
| W6604                           | W6603                             | W6606             | W6601 & W6605      | W6602             | W6600              | W6607              | W6610                               |
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| 2-Hole, 3/8" Plate with Double 1-5/8" Channel Bracket | Two-Hole Bracket Arms are 1" Channel            | Two-Hole Bracket Arms are 1-5/8" Channel      | 3-Hole Girder Style Bracket     | 5-Hole Girder Style Bracket     | 6-Hole Bracket with Brace                      |
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Pipe & Conduit Supports

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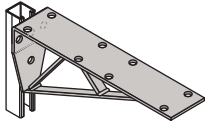
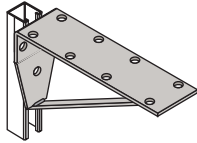
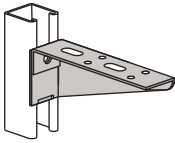
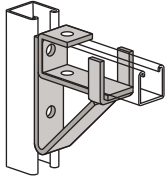
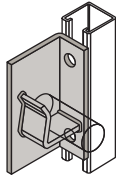
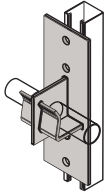
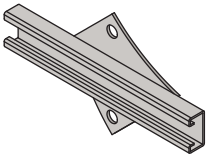
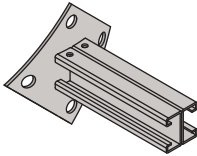
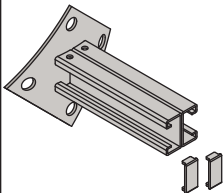
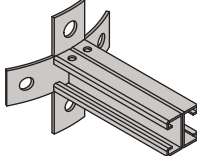
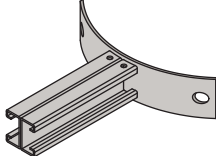
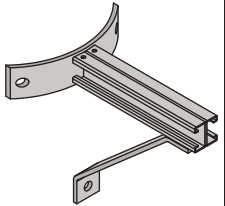
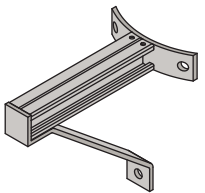
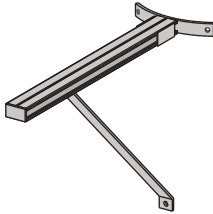
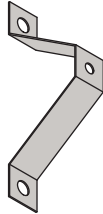

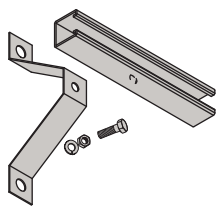
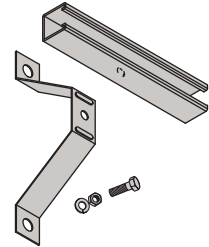
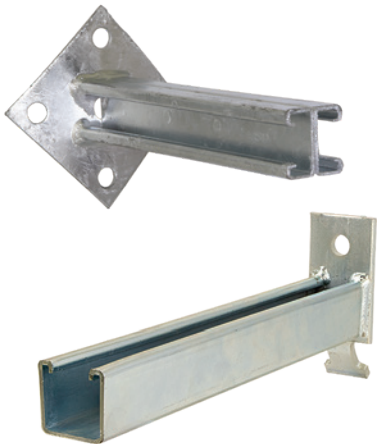
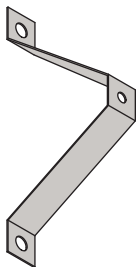
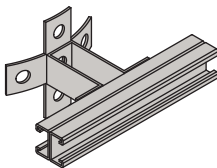
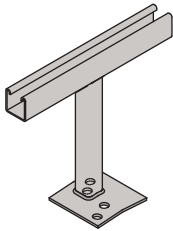
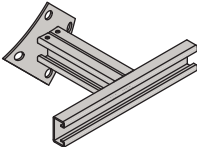
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| Two Piece Purlin Beam Clamp                       | Strut to Beam Clamp with Square U-Bolt      | Strut to Beam Clamp with Square U-Bolt      | "U" Bolt Beam Clamp (Long) for 6-1/2" Strut | Strut to Beam Clamp with Square U-Bolt and J-Hook | Strut to Beam Clamp with Square U-Bolt and J-Hook |
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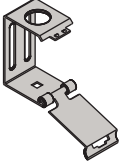
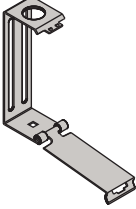
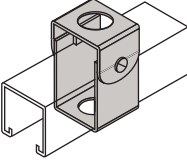
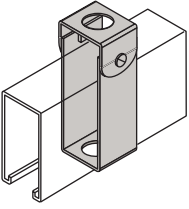
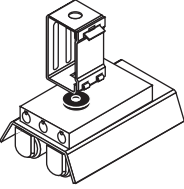

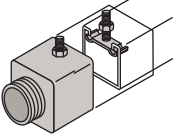
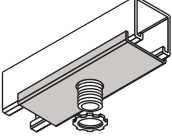
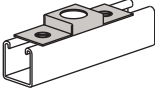
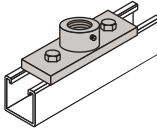
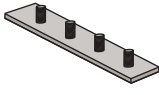
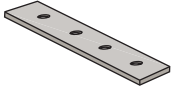
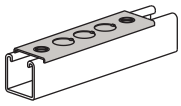
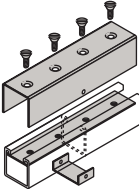
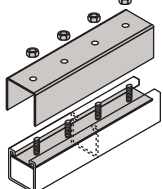
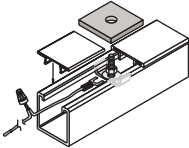
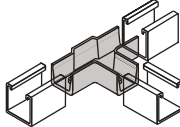
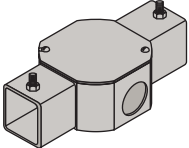
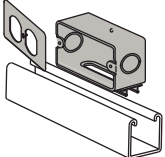
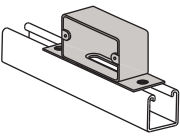
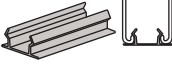
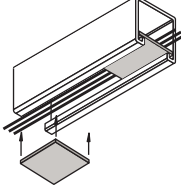

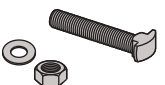


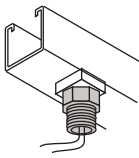
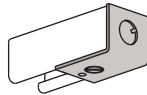
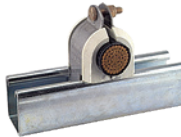
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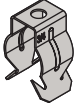

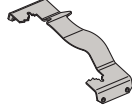
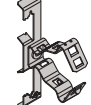

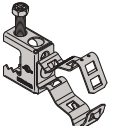
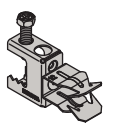
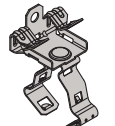
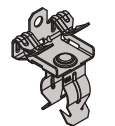
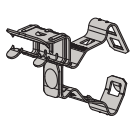
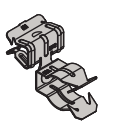






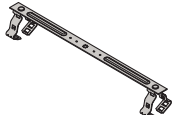
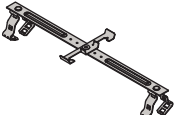


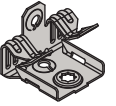
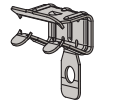


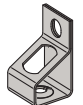
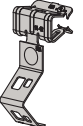
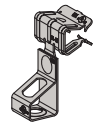
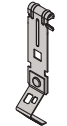
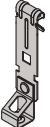

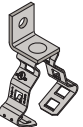
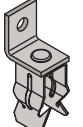
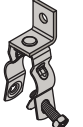

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| FHV3CC6 – FHV3CC16  | CFC2D – CFC8E   | CC16CC6 – CC16CC32  | CCP8CCP8 – CCP16CCP16   | PCH075PCH037050 – PCH075PCH125  | BR1012 – BR2532WS   | Beam Clamps             |
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| B18 CC6 – BS18 CCP16S   | MFC B18 CC6 – MFC B18 CCP16   | FH24B18 CC6 – FH58B18 CCP16   | TRH-2 – TRH-5   | FCH24 – FCH912S   | FSM24 – FSM912  | Electrical Fittings     |
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| ABRH4T – ABRTH6   | SHP & SHR   | ABSHP   | FHS24SHP – FHS912SHR  | FHV3SHP – FHZSHR  | PSP2-6 – FSM912   |
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| SCL037EG  | BC92025EG & BC92037EG   | BCL   | ZBA18PG & ZBA26PG   | BBSM & BBSM6  | BB16SM  |
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| LVMN  | LVMS  | LVMP  | MSCCC6 – MSCCCP16   | CSSTS   | CTS812 & CTS816D  |
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| USG   | CCMS  | SDTSLP8X1/2   | SCT15   | TCB16 – TCS16   | EBH24 & EBH   |
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| CBB   | CBN   | CBN28BR – CBN60BR                               | CBN1S – CBN4RD                        | CBN8EX – CBN16EX                          | CBNPRB                                 |
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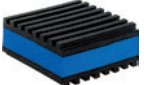
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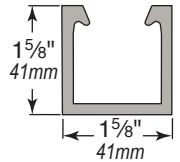
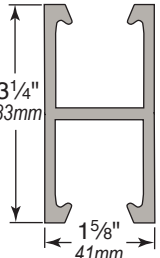
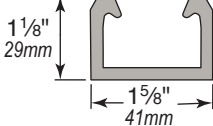
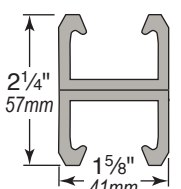
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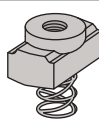
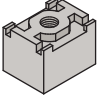
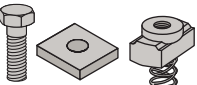

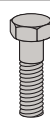
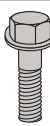




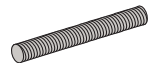

Technical Data

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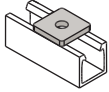
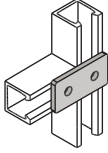
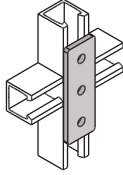

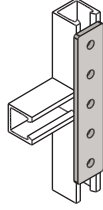
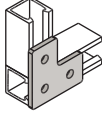
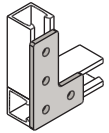
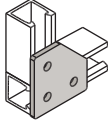
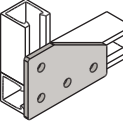
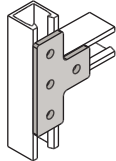
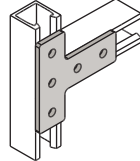
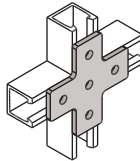
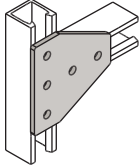
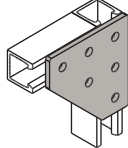
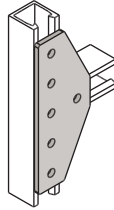
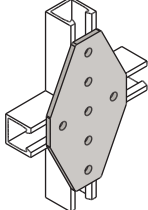
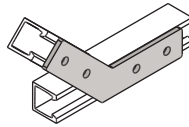
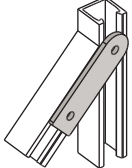
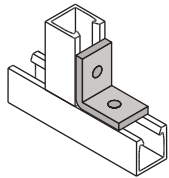
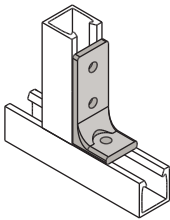
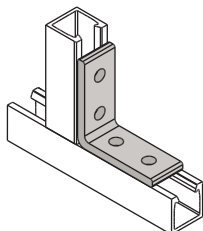
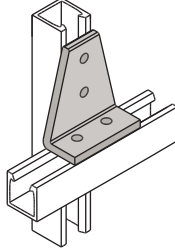
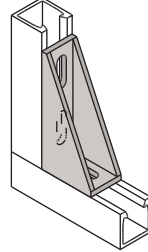
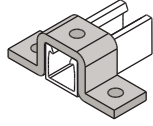
| CBM Mini Block Plain Base   | CBM Series Support with Metal Channel   | CBM REX Support Raised 1-5/8" Metal Channel  | CBMPH Series Raised Clamp for Copper or Steel Tube or Pipe                        | CBMPP Series Raised Clamp for PEX, CPVC, or PVC Pipe                                | CBMTRH Series Raised Hanger for Insulated Lines                                     |
|---|---|--|---|---|---|
| CBM   | CBM1S & CBM1D   | CBM10REX & CBM12REX  | CBMPH1 – CBMPH14  | CBMPP2 – CBMPP12  | CBMTRH2 – CBMTRH5   |
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|---|---|--|---|
| 1 5/8" x 1 5/8" (41 x 41mm) Solid & Slotted Channel                                 | 1 5/8" x 3 1/4" (41 x 83mm) Solid & Slotted Channel                                 | 1 5/8" x 1 1/8" (41 x 29mm) Solid & Slotted Channel                                  | 1 5/8" x 2 1/4" (41 x 57mm) Solid & Slotted Channel                                   |
| W200 Series   | W201 Series   | W800 Series  | W801 Series   |
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| W5-4FG – W2-8FG   | W2-6WSPU – W2-12WSNY  | SLK-375 & SLK-500   | SPA037PVC & SPA050PVC   | HHCS Series   | HHFB Series   |
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| W5053PF – W5056VF   | W5007PF & W5007VF   | W5008PF & W5008VF   | W5009PF & W5009VF  | W5010PF & W5010VF   | W5021PF & W5021VF   |
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| W5025PF & W5025VF   | W5020PF & W5020VF   | W5024PF & W5024VF   | W5022PF & W5022VF  | W5022MPF & W5022MVF   | W5023PF & W5023VF   |
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| Two Hole 90° Angle  | Three Hole 90° Angle  | Four Hole 90° Angle   | Four Hole Self 90° Angle   | Universal 90° Angle   | Three Hole "U" Shape Support  |
| W5103PF & W5103VF   | W5113PF & W5113VF   | W5125MPF – W5125VF  | W5109PF & W5109VF  | W5124PF & W5124PU   | W5312PF & W5312PU   |
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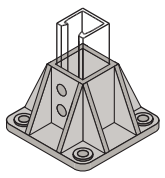
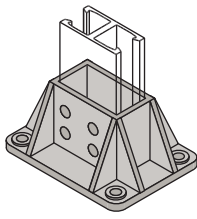
Concrete Inserts

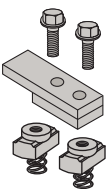
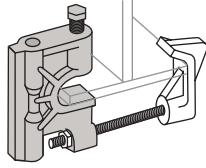
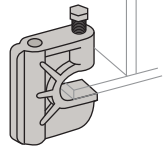
Roofing Supports

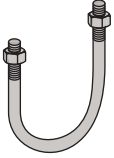
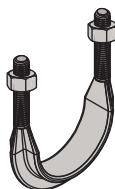
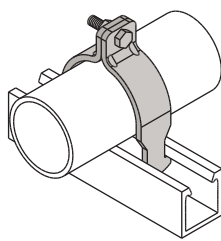
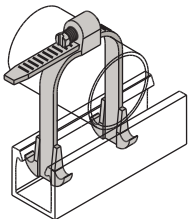
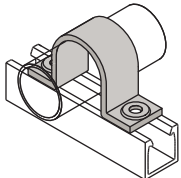
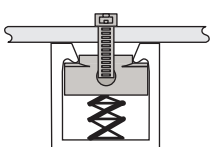
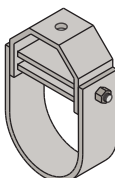
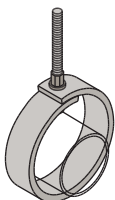

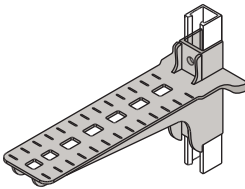
Fiberglass System

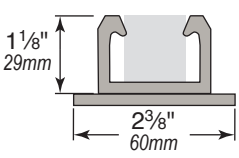
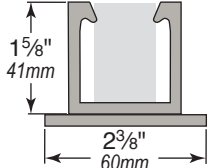
Technical Data

## Fiberglass Support System (cont)

| Post Bases  |   |
|---|---|
| Single Post Base  | Double Post Base  |
| W5814SQPE & W5814SQPU   | W5816SQPE & W5816SQPU   |
|  |  |
| Page 282  | Page 282  |

| Beam Clips and Clamps   |  |   |
|---|--|---|
| Beam Clips  | Large Beam Clamp   | Small Beam Clamp  |
| BC500 Series  | LBC Series   | SBC Series  |
|  |  |  |
| Page 283  | Page 284   | Page 284  |

| Cable, Pipe & Tube Clamps & Supports  |   |   |   |   |
|---|---|---|---|---|
| Standard U-Bolts  | Standard U-Bolts  | Rigid Pipe Clamps   | Adjustable Pipe Clamps  | Two Hole Pipe Straps  |
| W6304FG – W6322FG   | W6308ERFG – W6326ERFG   | W6126APU – W6174APU   | APC050PU – APC300PU   | W7938PU – W7870PU   |
|    |    |    |     |    |
| Page 285  | Page 286  | Page 287  | Page 288  | Page 289  |
| Adjustable Tubing Clamps  | Clevis Hanger   | SuperHanger™  | SuperLoop™  | Rack Arms   |
| ABS Series  | SCH100PE – SCH600PU   | SH001 – SH010   | SLH1200 – SLH2400   | RA1400PU – RA2000NY   |
|  |  |  |  |  |
| Page 290  | Page 291  | Page 292  | Page 293  | Page 294  |

| Concrete Inserts  |   |
|---|---|
| 1-5/8" x 1-1/8" Concrete Insert   | 1-5/8" x 1-5/8" Concrete Insert   |
| W7565EPF & W7565EVF   | W7265EPF & W7265EVF   |
|  |  |
| Page 295  | Page 295  |

Fiberglass Chemical Resistance Chart . . . . . 296 - 298

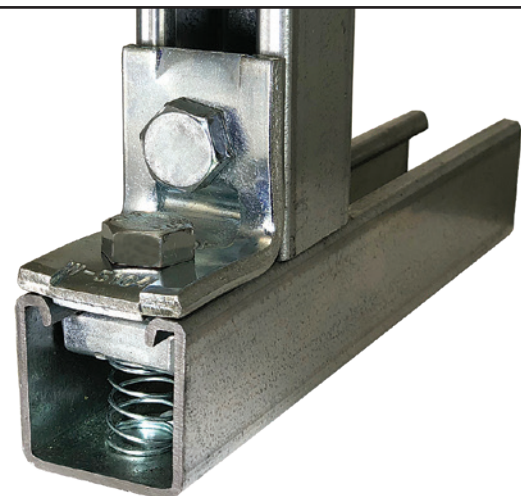
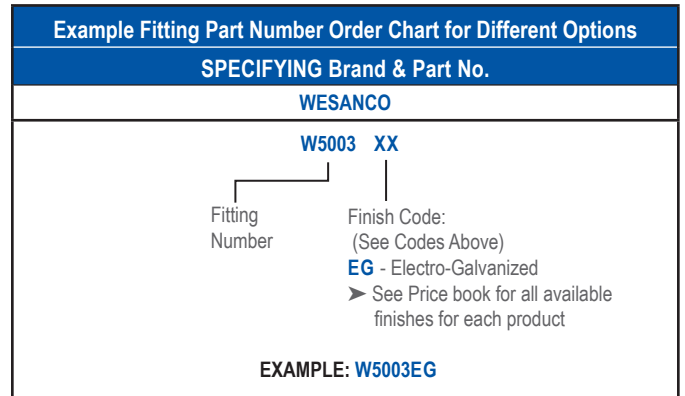
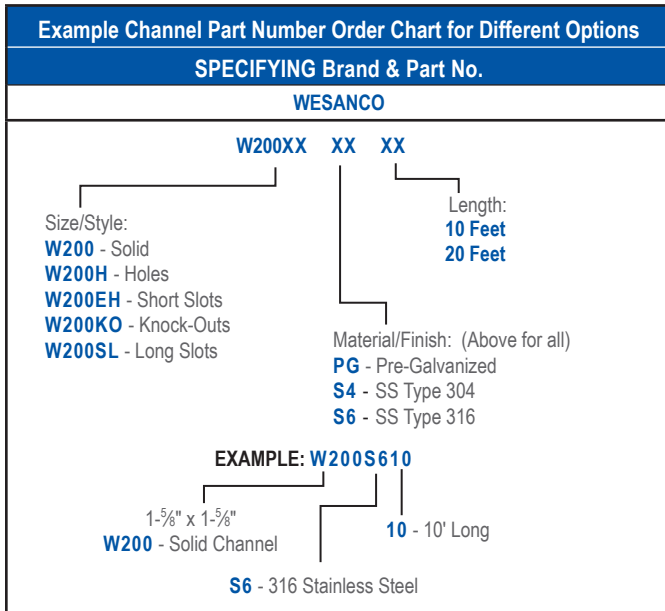
**Technical Data** . . . . . 299 - 339

- Material Specifications - Special Metals . . . . . 300
- Design & Dimension Information . . . . . 301 - 302
- Channel Engineering Data . . . . . 303 - 305
- Safe Thru-Bolting & Trapeze Information . . . . . 306
- Bolted Channel Attachment Information . . . . . 307
- Electrical Installation Instructions . . . . . 308
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- Florida Strut Cross Reference . . . . . 321 - 325
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- Part Number Index . . . . . 330 - 339

Contact Information . . . . . Back Cover



| Part Number  |  |  |
|--|--|--|
| Channel Finish or Material Order Codes                 |  |  |
| Material/Finish  | SPECIFYING Brand Material/Finish Codes | Description  |
| Electroplated  | <b>EG</b>                              | Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.  |
| Mill-Galvanized (Pre-Galvanized)                       | <b>PG</b>                              | Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present.       |
| Hot Dip Galvanized                                     | <b>HG</b>                              | Channel and fittings which are hot dip galvanized after fabrication.   |
| Paint-Green Powder Coating                             | <b>GR</b>                              | A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.   |
| Silva-Guard: Spring Steel                              | <b>SG</b>                              | Approved for outdoor as well as indoor applications. It is a chrome free duplex coating system that combines an inorganic zinc-rich base coat with an aluminum-rich organic topcoat. |
| Plain  | <b>PL</b>                              | Other commercially available finishes can be supplied per specification when required to protect applications.   |
| Special Coatings Yellow Passivate (Trivalent Chromium) | <b>YZ</b>                              | Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B633, with a "Yellow" Dichromate conversion coat versus the clear conversion coat of the EG finish.   |
| Stainless Steel: Channel                               | Type 304                               | Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel.   |
|  | Type 316                               |  |
| Aluminum: Channel                                      | <b>AL</b>                              | Aluminum alloy extruded bar, rod, wire, shape and tube.  |
| Fiberglass: Polyester                                  | <b>PF</b>                              | General purpose resin with good corrosion resistance for most applications. Standard color gray  |
| Fiberglass: Vinyl Ester                                | <b>VF</b>                              | Premium grade resin with excellent corrosion resistance. Standard color beige  |
| Fiberglass: Polyurethane                               | <b>PU</b>                              | Glass filled polyurethane which is highly corrosion resistant  |



Introduction  
Channel  
Channel Nuts & Hardware  
General Fittings  
Brackets  
Beam Clamps  
Pipe & Conduit Supports  
Electrical Fittings  
Spring Steel  
Concrete Inserts  
Roofing Supports  
Fiberglass System  
Technical Data

## General Information

Most channels are produced in 10 and 20 foot lengths (3m and 6m) with a length tolerance of plus or minus  $\frac{1}{16}$ ".

W600 and W700 are produced in 10 foot lengths (3m) only.

## Channels

### General

Channels are manufactured by the cold roll forming process which produces cross sections of uniform dimensions within tolerances established by the Metal Framing Manufacturer's Association, Metal Framing Standards Publication No. MFMA-4.

### Material

Steel used in the manufacture of channels conforms to the ASTM specifications in this catalog.

### Design

Design is based on AISI S100-2016 "Specification for the Design of Cold-Formed Steel Structural Members." Maximum bending stress used in design is 25,000 pounds per square inch (PSI). This is based upon a virgin steel minimum yield stress of 33,000 psi cold worked to an average yield stress of 42,000 psi.

### Welding

Welds meet the performance requirements of section 4 of AISI S100-2016 "Specification for the design of Cold-Formed Steel Structural Members." All multiple sections of two or more single channels are resistance spot-welded approximately 2" to 3" (51mm to 76mm) on center.

## Channel Nuts

### General

Channel nuts are formed or stamped from steel bar stock and is case hardened after all forming and tapping operations have been completed. The nuts are coated with zinc to ASTM-B633 "Electrodeposited Coatings of Zinc on Iron and Steel."

Channel nuts have uniform and American coarse screw threads.

Channel nuts are available both with and without springs. Springs are made from Galvanized spring steel wire.

### Material

The bar steel used in manufacture of channel nuts conforms to ASTM A575 or ASTM A576.

## Weights and Dimensions

All weights given for materials are approximate shipping weights. Weights will vary somewhat due to permissible tolerances and slight variations in material thickness.

We reserve the right to change design specifications or to add or discontinue specific items without notice.

## Fittings

### General

Fittings are manufactured by cold forming steel in punch press dies and conform to those tolerances listed in section 5.3 of Metal Framing Standards Publication No. MFMA-4.

### Material

Steel used for fittings is Hot-Rolled Pickled and Oiled strip steel or bar conforming to ASTM A 570 or ASTM A575.

### Welding

Fittings having two or more component parts may be arc or resistance welded in accordance with the appropriate American Welding Society Standards.

## Finishes

### Electroplated Zinc or Electro-Galvanized

This coating is standard for most Wesanco products. Electro-Galvanized products meet ASTM B633 SC1 or SC3, Type III. Electroplating deposits zinc on the surface of the steel by electrolysis from a bath of zinc salts. The thickness of zinc applied in this method is between 0.2 mils to 0.5 mils (5.1  $\mu\text{m}$  to 12.7  $\mu\text{m}$ ).

### Mill-Galvanized (Pre-Galvanized)

ASTM A653 G-90 Pre-galvanized zinc is produced by continuously rolling steel coils or sheets through molten zinc at the mills. The coils are slit to size and fabricated by forming, shearing or punching to produce the finished product. During fabrication cut edges are not generally zinc coated. However, the zinc near the uncoated metal becomes a sacrificial anode to protect the bare areas.

### Paint-Green Powder Coating

A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.

### Hot Dip Galvanized After Fabrication

Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications. ASTM A 123, ASTM A153 or ASTM A386.

### Silva-Guard

Silva-Guard coating is a multi-step process that meets the 1000 hour salt spray test per ASTM B117 and DIN 50021. **Silva-Guard coating is WEEE, ELV, and RoHS compliant.** SG Finish is approved for outdoor as well as indoor applications. It is a chrome free duplex coating system that combines an inorganic zinc-rich base coat with an aluminum-rich organic topcoat.

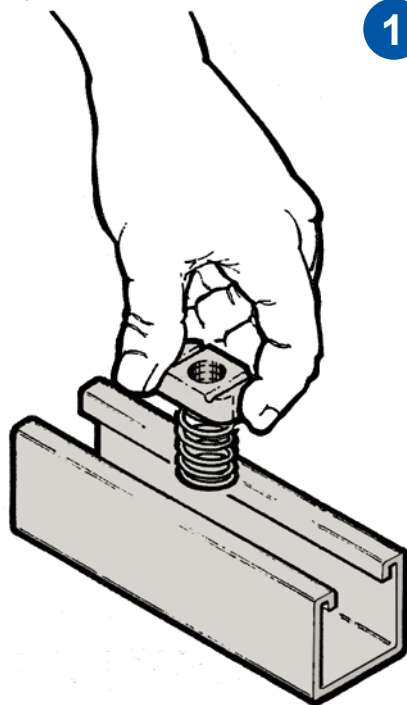
### Special Coatings

Other commercially available finishes can be supplied per specification when required to protect applications.

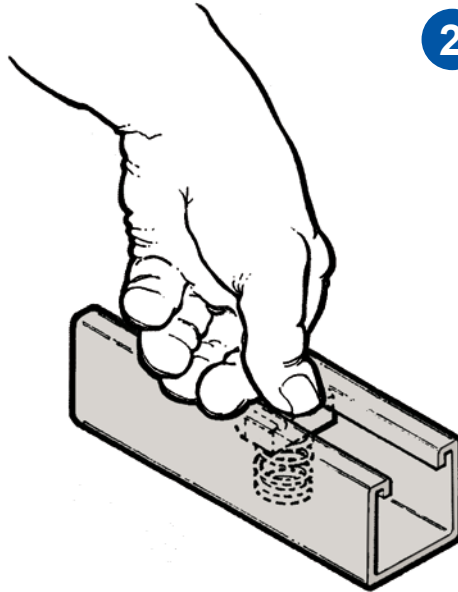
| Channel Specifications   |                          |  |
|--------------------------|--------------------------|--|
| Material                 | Current ASTM Designation | ASTM Description   |
| Hot Rolled: Channel      | A 1011SS GR33            | Hot rolled carbon steel sheet and strip, structural quality.   |
| Cold Rolled: Channel     | A 1008SS GR33, A 1008    | Cold rolled carbon sheet steel.  |
| Pregalvanized: Channel   | A 653 SS GR33            | Steel sheet zinc-coated by hot dip process at mill, structural quality.                              |
| Stainless Steel: Channel | A 240 TYPE 304           | Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel. |
|                          | A 240 TYPE 316           |  |
| Aluminum: Channel        | B 221 TYPE 6063 T6       | Aluminum alloy extruded bar, rod, wire, shape, and tube.   |

| Fittings & Hardware Specifications |                          |  |
|------------------------------------|--------------------------|--|
| Material                           | Current ASTM Designation | ASTM Description   |
| Bar Stock: Channel Nuts            | A 36                     | Merchant quality hot rolled carbon steel bars. Steel bars, carbon, hot rolled special quality. |
|                                    | A 29-03                  |  |
| Cold Rolled: Closure Strip         | A 1008 CS GR33           | Cold rolled carbon sheet steel.  |
| Pregalvanized: Closure Strip       | A 653 GR33 G90           | Steel sheet, zinc coated (galvanized) by the hot dipped process, commercial quality.           |
| Bar Stock                          | A 569                    | Merchant quality hot rolled carbon steel bars.   |
| Hot Rolled Plate                   | A 575                    | Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.                    |
| Fitting (Steel)                    | A 366                    | Steel carbon, cold rolled sheet, commercial quality structural steel.                          |
|                                    | A 366                    |  |
|                                    | A 36                     |  |
| Hardware                           | A 563                    | Carbon and alloy steel nuts. Carbon steel externally threaded standard fasteners.              |
|                                    | A 307                    |  |
| Strip Steel: Pipe Clamps           | A 569                    | Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.                    |
| Hot Rolled: Shelf Brackets         | A 569                    | Steel carbon, cold rolled sheet, commercial quality structural steel.                          |



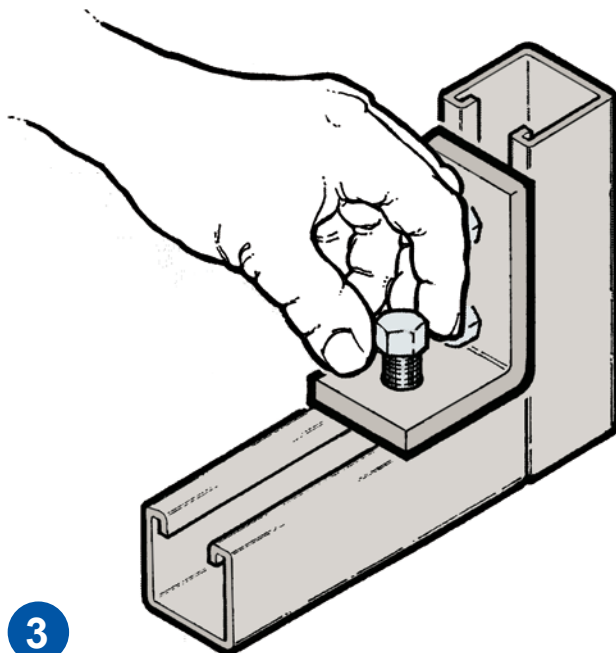


- 1** Insert the appropriate Channel Nut with spring, *parallel* to the slot edges, anywhere along the continuous open slot of the channel.



- 2** Depress the Channel Nut with spring below the in-turned channel edges. Rotate one quarter turn clock-wise, perpendicular, and release pressure on the nut.

The Nut will lock in-place, its pyramid grip enhanced grooves aligning with the underside of the channel's in-turned edges; the spring being designed to hold the nut in place during assembly.



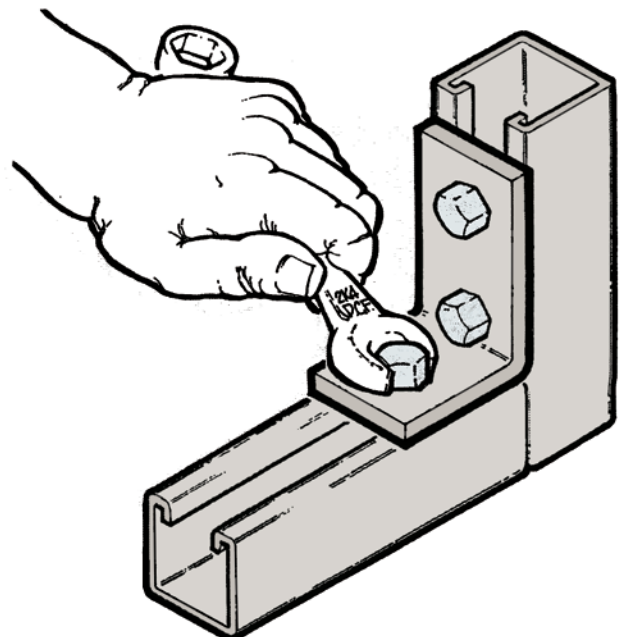
**3**

Fitting, bracket, or accessory, is located on the channel face over the Channel Nut with spring.

An appropriate diameter and length of bolt is inserted, and the fitting is adjusted for location at this time.

- 4** Properly torquing the bolt draws the Channel Nut with spring up against the in-turned channel lips, forming a strong, secure clamping connection.

Use caution not to bottom the bolt (select one of sufficient length, but not so long as to contact the inside back). **Do not over torque the bolt.**





# Channel Metal Framing



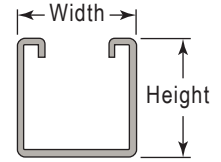
| Channel Material Specifications |                       |  |
|---------------------------------|-----------------------|--|
| Material                        | ASTM Designation      | ASTM Description   |
| Hot Rolled: Channel             | A 1011SS GR33         | Hot rolled carbon steel sheet and strip, structural quality.   |
| Cold Rolled: Channel            | A 1008SS GR33, A 1008 | Cold rolled carbon sheet steel.  |
| Stainless Steel: Channel        | A 240 TYPE 304        | Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel. |
|                                 | A 240 TYPE 316        |  |
| Aluminum: Channel               | B 221 TYPE 6063 T6    | Aluminum alloy extruded bar, rod, wire, shape and tube.  |

| Channel Finish Specifications        |  |
|--------------------------------------|--|
| Finish                               | Description  |
| Paint-Green Powder Coating           | A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.   |
| Electroplated                        | Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.  |
| Mill-Galvanized (Pre-Galvanized)     | Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present. |
| Hot Dip Galvanized After Fabrication | Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications. ASTM A 123, ASTM A153 or ASTM A386.                        |
| Special Coatings                     | Other commercially available finishes can be supplied per specification when required to protect applications.   |

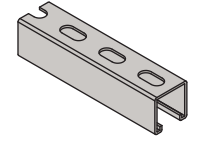
See page 23 for Material or Finish ordering codes for part numbers.



| SPECIFYING Brand & Part No.          | Channel Dimensions |                | Hole Patterns    |                 |           |                 | Page    | DISCONTINUED Brands & Part No. |               |
|--------------------------------------|--------------------|----------------|------------------|-----------------|-----------|-----------------|---------|--------------------------------|---------------|
|                                      | Style              | Height         | Short Slots (EH) | Long Slots (SL) | Holes (H) | Knock Outs (KO) |         | VERSABAR                       | FLORIDA STRUT |
| <b>12 Gauge Steel - 1-5/8" Width</b> |                    |                |                  |                 |           |                 |         |                                |               |
| W150                                 |                    | 3 1/4" (83mm)  | ◆ *              | -               | ◆         | -               | 60 - 63 | VA11                           | FS12314       |
| W151                                 |                    | 6 1/2" (165mm) | ◆ *              | -               | -         | -               |         | VA11201                        | FS12314NSBB   |
| W170                                 |                    | 2 1/2" (64mm)  | ◆ *              | ◆               | ◆ *       | ◆               | 55 - 56 | VA3                            | --            |
| W171                                 |                    | 5" (127mm)     | ◆                | -               | -         | -               |         | VA3201                         | --            |
| W100                                 |                    | 2 7/16" (62mm) | ◆                | ◆               | ◆         | -               | 57 - 59 | --                             | FS122716NS    |
| W101                                 |                    | 4 7/8" (124mm) | ◆                | -               | -         | -               |         | --                             | FS122716NSBB  |
| W200                                 |                    | 1 5/8" (41mm)  | ◆ *              | ◆               | ◆ *       | ◆               | 38 - 41 | VA1                            | FS12158NS     |
| W201                                 |                    | 3 1/4" (83mm)  | ◆ *              | -               | ◆ *       | -               |         | VA1201                         | FS12158NSBB   |
| W300                                 |                    | 1 3/8" (35mm)  | ◆ *              | ◆               | ◆         | ◆               | 42 - 43 | VA6                            | FS12138NS     |
| W301                                 |                    | 2 3/4" (70mm)  | ◆ *              | -               | -         | -               |         | VA6201                         | FS12138NSBB   |
| W800                                 |                    | 1" (25mm)      | ◆ *              | ◆               | ◆ *       | -               | 44 - 46 | VA10                           | FS12100NS     |
| W801                                 |                    | 2" (51mm)      | ◆ *              | -               | -         | -               |         | VA10201                        | FS12100NSBB   |
| W900                                 |                    | 7/8" (23mm)    | ◆                | ◆               | ◆         | -               | 47 - 49 | --                             | FS12078NS     |
| W901                                 |                    | 1 3/4" (44mm)  | ◆                | -               | ◆         | -               |         | --                             | FS12078NSBB   |
| W510                                 |                    | 1 3/16" (21mm) | ◆ *              | ◆               | ◆         | ◆               | 50 - 54 | VA13                           | FS121316NS    |
| W511                                 |                    | 1 5/8" (41mm)  | ◆ *              | -               | -         | -               |         | VA13201                        | FS121316NSBB  |



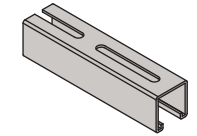
**Channel With Short Slots**



9/16" x 1/8" (14mm x 29mm) Slots are punched on 2" (51mm) centers.

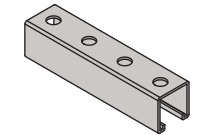
1 1/16" x 1/8" (18mm x 29mm) Slots are punched on 2" (51mm) centers. Allows for 5/8" (16mm) threaded rod & bolts.

**Channel With Long Slots**



1 3/32" x 3" (10mm x 76mm) Slots are punched on 4" (102mm) centers.

**Channel With Holes**



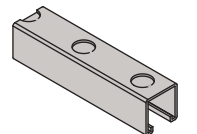
1 7/32" (13.5mm) Holes are punched on 1 1/2" (38mm) centers.

9/16" (14mm) Holes are punched on 1 7/8" (48mm) centers.

3/4" (19mm) Holes are punched on 1 7/8" (48mm) centers.

1 7/32" (13.5mm) Holes are punched on 8" (203mm) centers.

**Channel With Knock-Outs**

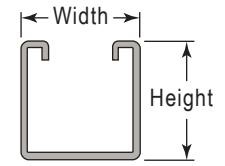


7/8" (22mm) Knock-outs are punched on 6" (152mm) centers.

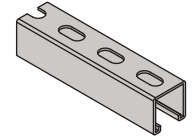
# Channel Selection Chart



| SPECIFYING Brand & Part No.   | Channel Dimensions |                | Hole Patterns    |                 |           |                 | Page      | DISCONTINUED Brands & Part No. |               |
|---|--------------------|----------------|------------------|-----------------|-----------|-----------------|-----------|--------------------------------|---------------|
|   | Style              | Height         | Short Slots (EH) | Long Slots (SL) | Holes (H) | Knock Outs (KO) |           | VERSABAR                       | FLORIDA STRUT |
| ♦ Pierced Available<br>* Various hole patterns available, contact representative for more information |                    |                |                  |                 |           |                 |           |                                |               |
| <b>14 Gauge Steel - 1-5/8" Width</b>  |                    |                |                  |                 |           |                 |           |                                |               |
| W210  |                    | 1 5/8" (41mm)  | ♦ *              | ♦               | ♦ *       | ♦               | 38 - 41   | VA2                            | FS14158NS     |
| W211  |                    | 3 1/4" (83mm)  | ♦ *              | -               | ♦ *       | -               |           | VA2201                         | FS14158NSBB   |
| W500  |                    | 1 3/16" (21mm) | ♦ *              | ♦               | ♦         | ♦               | 50 - 54   | VA4                            | FS141316NS    |
| W501  |                    | 1 5/8" (41mm)  | ♦ *              | -               | -         | -               |           | VA4201                         | FS141316NSBB  |
| <b>16 Gauge Steel - 1-5/8" Width</b>  |                    |                |                  |                 |           |                 |           |                                |               |
| W400  |                    | 1 3/16" (21mm) | ♦ *              | ♦               | ♦         | ♦               | 50 - 54   | VA5                            | FS161316NS    |
| W401  |                    | 1 5/8" (41mm)  | ♦ *              | -               | -         | -               |           | VA5201                         | FS161316NSBB  |
| <b>19 Gauge Steel - 1 3/16" Width</b>   |                    |                |                  |                 |           |                 |           |                                |               |
| W600  |                    | 1 3/16" (21mm) | -                | -               | -         | -               | 64 - 65   | --                             | --            |
| W601  |                    | 1 5/8" (41mm)  | -                | -               | -         | -               |           | --                             | --            |
| W700  |                    | 1 3/32" (10mm) | -                | -               | -         | -               | 66 - 67   | --                             | --            |
| W701  |                    | 1 3/16" (21mm) | -                | -               | -         | -               |           | --                             | --            |
| <b>Fiberglass Channel - 0.15" Thick - 1-5/8" Width</b>  |                    |                |                  |                 |           |                 |           |                                |               |
| W200  |                    | 1 5/8" (41mm)  | ♦                | -               | -         | -               | 268 - 269 | --                             | --            |
| W201  |                    | 3 1/4" (83mm)  | ♦                | -               | -         | -               |           | --                             | --            |
| W800  |                    | 1 1/8" (29mm)  | ♦                | -               | -         | -               | 270 - 271 | --                             | --            |
| W801  |                    | 2 1/4" (57mm)  | ♦                | -               | -         | -               |           | --                             | --            |
| ♦ Pierced Available<br>* Various hole patterns available, contact representative for more information |                    |                |                  |                 |           |                 |           |                                |               |



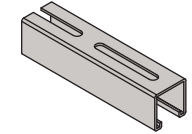
### Channel With Short Slots



9/16" x 1/8" (14mm x 29mm) Slots are punched on 2" (51mm) centers.

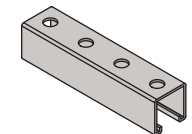
1 1/16" x 1/8" (18mm x 29mm) Slots are punched on 2" (51mm) centers.

### Channel With Long Slots



1 3/32" x 3" (10mm x 76mm) Slots are punched on 4" (102mm) centers.

### Channel With Holes



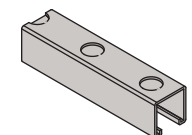
1 7/32" (13.5mm) Holes are punched on 1 1/2" (38mm) centers.

9/16" (14mm) Holes are punched on 1 7/8" (48mm) centers.

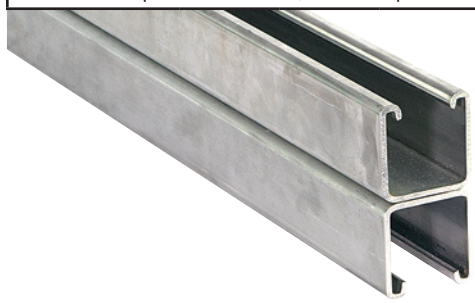
3/4" (19mm) Holes are punched on 1 7/8" (48mm) centers.

1 7/32" (13.5mm) Holes are punched on 8" (203mm) centers.

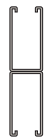



















### Channel With Knock-Outs



7/8" (22mm) Knock-outs are punched on 6" (152mm) centers.



Introduction  
Channel  
Channel Nuts & Hardware  
General Fittings  
Brackets  
Beam Clamps  
Pipe & Conduit Supports  
Electrical Fittings  
Spring Steel  
Concrete Inserts  
Roofing Supports  
Fiberglass System  
Technical Data

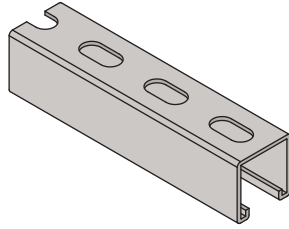
| SPECIFYING Brand & Part No. | Channel Style   | Area            |                    | Weight   |        | I x             |                    | S x             |                    | Moment |         | Page  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---|-----------------|--------------------|----------|--------|-----------------|--------------------|-----------------|--------------------|--------|---------|-------|--------------------------------|---------------|
|                             |   | In <sup>2</sup> | (cm <sup>2</sup> ) | lbs / ft | (kg/m) | In <sup>4</sup> | (cm <sup>4</sup> ) | In <sup>3</sup> | (cm <sup>3</sup> ) | in-lbs | (N•m)   |       | VERSABAR                       | FLORIDA STRUT |
| <b>W151</b>                 |    | 1.804"          | (11.64)            | 6.14     | (9.1)  | 6.339"          | (263.9)            | 1.951           | (32.0)             | 48,180 | (5,440) | 60-63 | VA11201                        | FS12314NSBB   |
| <b>W171</b>                 |    | 1.453           | (9.37)             | 4.94     | (7.35) | 2.813           | (117.1)            | 1.154           | (18.9)             | --     | --      | 55-56 | VA3201                         | --            |
| <b>W101</b>                 |    | 1.463"          | (9.44)             | 4.98     | (7.4)  | 2.867"          | (119.3)            | 1.176           | (19.3)             | 28,940 | (3,270) | 57-59 | --                             | FS122716NSBB  |
| <b>W150</b>                 |    | 0.902"          | (5.82)             | 3.07     | (4.6)  | 1.113"          | (46.3)             | 0.639           | (10.5)             | 15,770 | (1,780) | 60-63 | VA11                           | FS12314       |
| <b>W201</b>                 |    | 1.122"          | (7.24)             | 3.82     | (5.7)  | 0.954"          | (39.7)             | 0.587           | (9.6)              | 14,360 | (1,620) | 38-41 | VA1201                         | FS12158NSBB   |
| <b>W301</b>                 |    | 1.017"          | (6.56)             | 3.46     | (5.1)  | 0.608"          | (25.3)             | 0.443           | (7.3)              | 10,810 | (1,220) | 42-43 | VA6201                         | FS12138NSBB   |
| <b>W211</b>                 |  | 0.834"          | (5.38)             | 2.84     | (4.2)  | 0.739"          | (30.8)             | 0.455           | (7.5)              | 11,340 | (1,280) | 38-41 | VA2201                         | FS14158NSBB   |
| <b>W170</b>                 |  | 0.727           | (4.69)             | 2.47     | (3.67) | 0.520"          | (21.7)             | 0.393           | (6.4)              | --     | --      | 55-56 | VA3                            | --            |
| <b>W100</b>                 |  | 0.732"          | (4.72)             | 2.49     | (3.7)  | 0.530"          | (22.0)             | 0.400           | (6.5)              | 9,820  | (1,110) | 57-59 | --                             | FS122716NS    |
| <b>W200</b>                 |  | 0.561"          | (3.62)             | 1.91     | (2.8)  | 0.188"          | (7.8)              | 0.207           | (3.4)              | 5,070  | (570)   | 38-41 | VA1                            | FS12158NS     |
| <b>W901</b>                 |  | 0.807"          | (5.21)             | 2.75     | (4.1)  | 0.183"          | (7.6)              | 0.209           | (3.4)              | 5,060  | (570)   | 47-49 | --                             | FS12078NSBB   |
| <b>W300</b>                 |  | 0.508"          | (3.28)             | 1.73     | (2.6)  | 0.123"          | (5.1)              | 0.158           | (2.6)              | 3,840  | (430)   | 42-43 | VA6                            | FS12138NS     |
| <b>W210</b>                 |  | 0.417"          | (2.69)             | 1.42     | (2.1)  | 0.148"          | (6.2)              | 0.169           | (2.8)              | 4,060  | (460)   | 38-41 | VA2                            | FS14158NS     |
| <b>W801</b>                 |  | 0.859"          | (5.54)             | 2.92     | (4.3)  | 0.261"          | (10.9)             | 0.261           | (4.3)              | 3,610  | (410)   | 44-46 | VA10201                        | FS12100NSBB   |
| <b>W501</b>                 |  | 0.590"          | (3.81)             | 2.01     | (3.0)  | 0.122"          | (5.1)              | 0.150           | (2.4)              | 3,610  | (410)   | 50-54 | VA4201                         | FS141316NSBB  |
| <b>W800</b>                 |  | 0.430"          | (2.77)             | 1.46     | (2.2)  | 0.054"          | (2.2)              | 0.093           | (1.5)              | 3,610  | (410)   | 44-46 | VA10                           | FS12100NS     |
| <b>W401</b>                 |  | 0.487"          | (3.14)             | 1.66     | (2.5)  | 0.105"          | (4.4)              | 0.129           | (2.1)              | 3,210  | (360)   | 50-54 | VA5201                         | FS161316NSBB  |
| <b>W900</b>                 |  | 0.403"          | (2.60)             | 1.37     | (2.0)  | 0.038"          | (1.6)              | 0.074           | (1.2)              | 1,800  | (200)   | 47-49 | --                             | FS12078NS     |
| <b>W500</b>                 |  | 0.295"          | (1.90)             | 1.00     | (1.5)  | 0.026"          | (1.1)              | 0.056           | (0.9)              | 1,360  | (150)   | 50-54 | VA4                            | FS141316NS    |
| <b>W400</b>                 |  | 0.244"          | (1.57)             | 0.83     | (1.2)  | 0.023"          | (1.0)              | 0.050           | (0.8)              | 1,230  | (140)   | 50-54 | VA5                            | FS161316NS    |
| <b>W601</b>                 |  | 0.214"          | (1.38)             | 0.73     | (1.1)  | 0.045"          | (1.9)              | 0.056           | (0.9)              | 1,390  | (160)   | 64-65 | --                             | --            |
| <b>W600</b>                 |  | 0.107"          | (0.69)             | 0.36     | (0.5)  | 0.009"          | (0.4)              | 0.020           | (0.3)              | 510    | (60)    | 64-65 | --                             | --            |
| <b>W701</b>                 |  | 0.149"          | (0.96)             | 0.51     | (0.8)  | 0.007"          | (0.3)              | 0.018           | (0.3)              | 450    | (50)    | 66-67 | --                             | --            |
| <b>W700</b>                 |  | 0.074"          | (0.48)             | 0.25     | (0.4)  | 0.002"          | (0.1)              | 0.007           | (0.1)              | 170    | (20)    | 66-67 | --                             | --            |

## Pierced Channel

### Channel with Short Slots (EH)

$\frac{9}{16}$ " x  $1\frac{1}{8}$ " (14mm x 29mm) Slots are punched on 2" (51mm) centers.

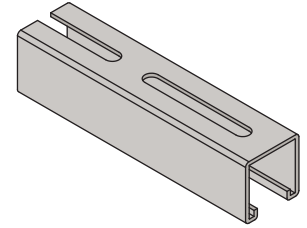
$1\frac{1}{16}$ " x  $1\frac{1}{8}$ " (18mm x 29mm) Slots are punched on 2" (51mm) centers. Allows for  $\frac{5}{8}$ " (16mm) threaded rod and bolts.



### Channel with Long Slots (SL)

$1\frac{3}{32}$ " x 3" (10mm x 76mm)

Slots are punched on 4" (102mm) centers.



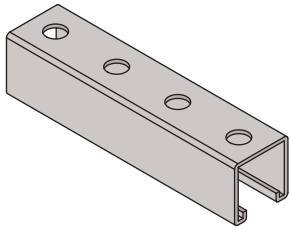
### Channel with Holes (H)

$1\frac{7}{32}$ " (13.5mm) Holes are punched on  $1\frac{1}{2}$ " (38mm) centers.

$\frac{9}{16}$ " (14mm) Holes are punched on  $1\frac{7}{8}$ " (48mm) centers.

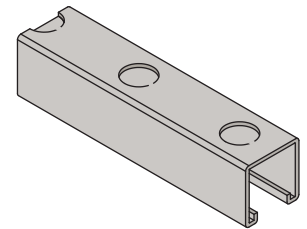
$\frac{3}{4}$ " (19mm) Holes are punched on  $1\frac{7}{8}$ " (48mm) centers.

$1\frac{7}{32}$ " (13.5mm) Holes are punched on 8" (203mm) centers.



### Channel with Knock-Outs (KO)

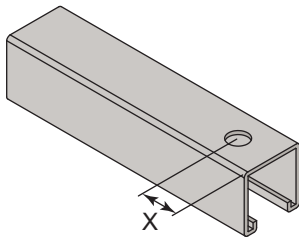
$\frac{7}{8}$ " (22mm) Knock-outs are punched on 6" (152mm) centers.



### Channel with Specialty Custom Perforations

Designation is indicated by adding type of perforation from standard selection and pertinent dimensional information.

If used as a trapeze reference page 306.

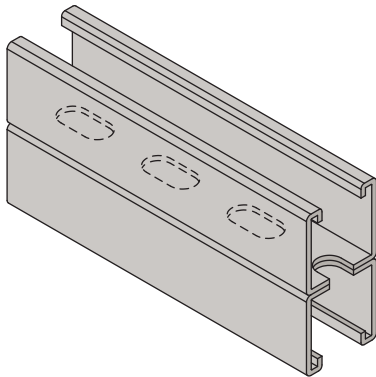


### Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

|                          |       |     |
|--------------------------|-------|-----|
| Channel with Short Slots | ..... | .90 |
| Channel with Long Slots  | ..... | .90 |
| Channel with Holes       | ..... | .95 |
| Knock-Out Channel        | ..... | .95 |

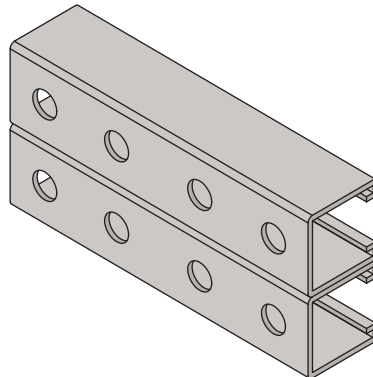
## Pierced Combinations



### Channel with Short Slots (EH)

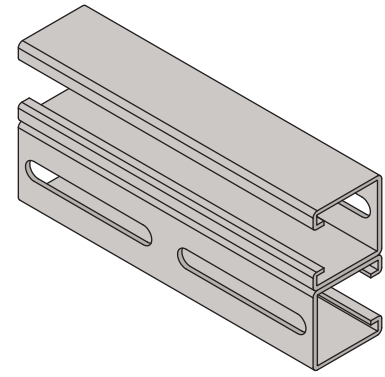
$\frac{9}{16}$ " x  $1\frac{1}{8}$ " (14mm x 29mm) Slots are punched on 2" (51mm) centers.

$1\frac{1}{16}$ " x  $1\frac{1}{8}$ " (18mm x 29mm) Slots are punched on 2" (51mm) centers.



### Channel with Holes (H)

$\frac{9}{16}$ " (14mm) Holes are punched on  $1\frac{7}{8}$ " (48mm) centers.



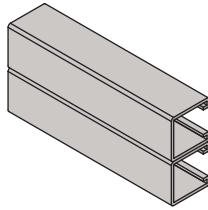
### Channel with Long Slots (SL)

$1\frac{3}{32}$ " x 3" (10mm x 76mm) Slots are punched on 4" (102mm) centers.

## 1-5/8" x 1-5/8" (41mm x 41mm) Channel Shown

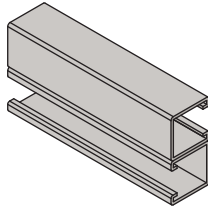
1-5/8" x 3-1/4" (41mm x 83mm)

| SPECIFYING Brand & Part No.    |          |               |
|--------------------------------|----------|---------------|
| DISCONTINUED Brands & Part No. |          |               |
| WESANCO                        | VERSABAR | FLORIDA STRUT |
| W202                           | VA1202   | --            |



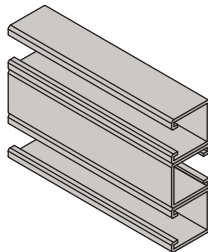
1-5/8" x 3-1/4" (41mm x 83mm)

| SPECIFYING Brand & Part No.    |          |               |
|--------------------------------|----------|---------------|
| DISCONTINUED Brands & Part No. |          |               |
| WESANCO                        | VERSABAR | FLORIDA STRUT |
| W203                           | VA1203   | --            |



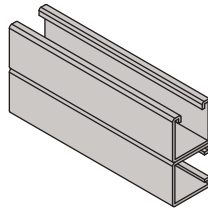
1-5/8" x 4-7/8" (41mm x 124mm)

| SPECIFYING Brand & Part No.    |          |               |
|--------------------------------|----------|---------------|
| DISCONTINUED Brands & Part No. |          |               |
| WESANCO                        | VERSABAR | FLORIDA STRUT |
| W203B3                         | VA1303   | --            |



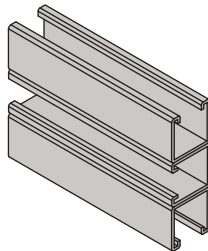
1-5/8" x 3-1/4" (41mm x 83mm)

| SPECIFYING Brand & Part No.    |          |               |
|--------------------------------|----------|---------------|
| DISCONTINUED Brands & Part No. |          |               |
| WESANCO                        | VERSABAR | FLORIDA STRUT |
| W204                           | VA1204   | --            |



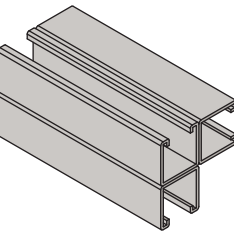
1-5/8" x 4-7/8" (41mm x 124mm)

| SPECIFYING Brand & Part No.    |          |               |
|--------------------------------|----------|---------------|
| DISCONTINUED Brands & Part No. |          |               |
| WESANCO                        | VERSABAR | FLORIDA STRUT |
| W204A3                         | VA1302   | --            |



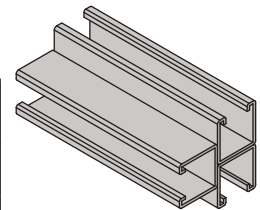
3-1/4" x 3-1/4" (83mm x 83mm)

| SPECIFYING Brand & Part No.    |          |               |
|--------------------------------|----------|---------------|
| DISCONTINUED Brands & Part No. |          |               |
| WESANCO                        | VERSABAR | FLORIDA STRUT |
| W205                           | VA1304   | --            |



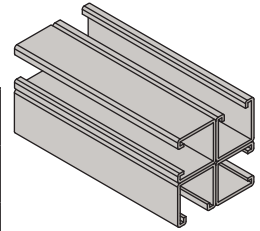
3-1/4" x 3-1/4" (83mm x 83mm)

| SPECIFYING Brand & Part No.    |          |               |
|--------------------------------|----------|---------------|
| DISCONTINUED Brands & Part No. |          |               |
| WESANCO                        | VERSABAR | FLORIDA STRUT |
| W206                           | VA1308   | --            |



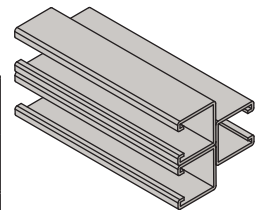
3-1/4" x 3-1/4" (83mm x 83mm)

| SPECIFYING Brand & Part No.    |          |               |
|--------------------------------|----------|---------------|
| DISCONTINUED Brands & Part No. |          |               |
| WESANCO                        | VERSABAR | FLORIDA STRUT |
| W207                           | VA1401   | --            |



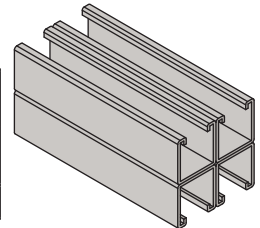
3-1/4" x 3-1/4" (83mm x 83mm)

| SPECIFYING Brand & Part No.    |          |               |
|--------------------------------|----------|---------------|
| DISCONTINUED Brands & Part No. |          |               |
| WESANCO                        | VERSABAR | FLORIDA STRUT |
| W208                           | VA1308   | --            |



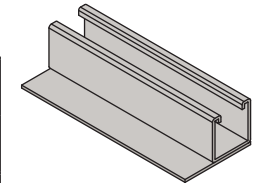
3-1/4" x 3-1/4" (83mm x 83mm)

| SPECIFYING Brand & Part No.    |          |               |
|--------------------------------|----------|---------------|
| DISCONTINUED Brands & Part No. |          |               |
| WESANCO                        | VERSABAR | FLORIDA STRUT |
| W209                           | VA1402   | --            |



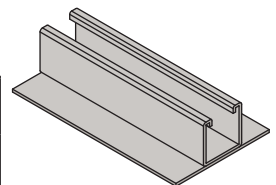
2-13/16" x 1-3/4" (71mm x 46mm)

| SPECIFYING Brand & Part No.    |          |               |
|--------------------------------|----------|---------------|
| DISCONTINUED Brands & Part No. |          |               |
| WESANCO                        | VERSABAR | FLORIDA STRUT |
| W220                           | VA1209   | --            |



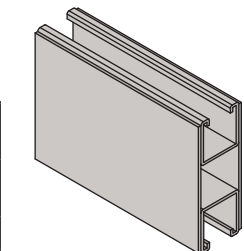
4" x 1-3/4" (102mm x 46mm)

| SPECIFYING Brand & Part No.    |          |               |
|--------------------------------|----------|---------------|
| DISCONTINUED Brands & Part No. |          |               |
| WESANCO                        | VERSABAR | FLORIDA STRUT |
| W221                           | VA1208   | --            |



1-7/8" x 4-7/8" (48mm x 124mm)

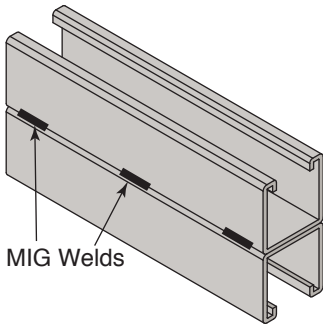
| SPECIFYING Brand & Part No.    |          |               |
|--------------------------------|----------|---------------|
| DISCONTINUED Brands & Part No. |          |               |
| WESANCO                        | VERSABAR | FLORIDA STRUT |
| W222                           | VA1405   | --            |



Additional combination configurations are available. Combinations can be made in other channel sizes.

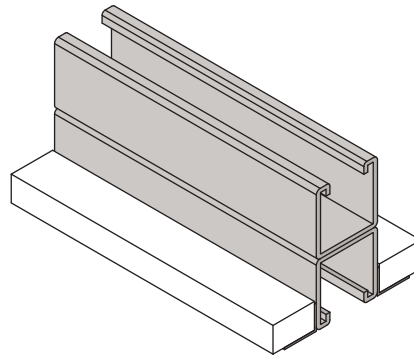


## Specialty Combinations

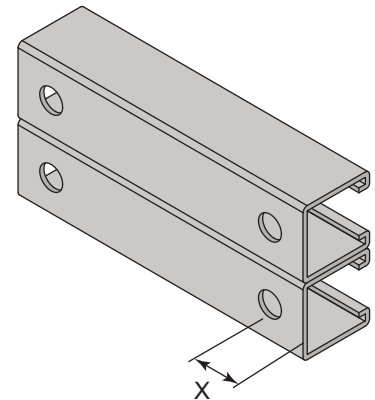


MIG Welds

**MIG Welded To Meet Specific Engineering Request**



**Combination/ Ceiling Support**



**Channel Custom Pierced**

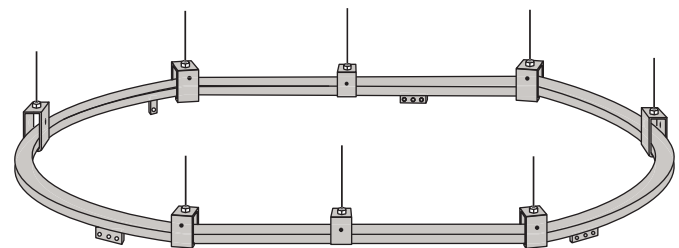
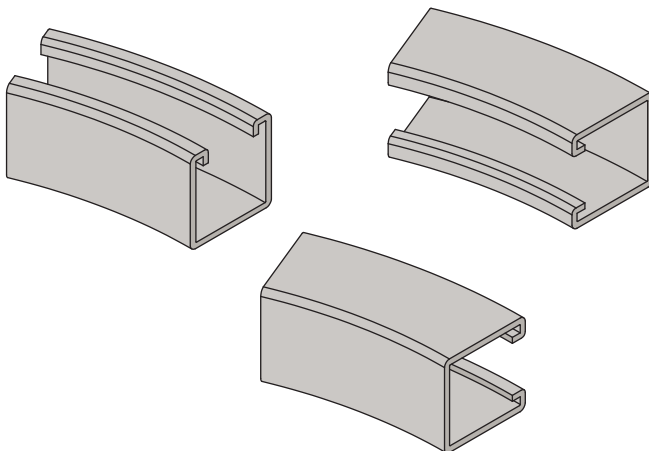
## Channel for Trolley Systems

The trolley system moves equipment from 10 to 600 lbs. (4.5kg to 272.2kg), with reliability, ease, and economy. Trolleys can be ganged to accommodate higher loads. Trolleys, featuring corrosion-free stainless wheel bearings and steel or acetyl wheels that require no lubrication, deliver built-in value and dependability for a wide range of applications. Throughout the system, famous quality assures dependable, trouble-free performance.

Composed of three basic elements; trolleys, track, and supports. Trolley systems are efficient and economical. Different trolleys give users a wide range of weight capacities and suspension options, to allow tailoring of the system to exact application needs.

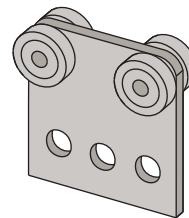
Track is available in 20 foot (6.1m) sections and can be easily field cut according to project requirements. Longer lengths and curved sections (shown below) are available on special order. A complete system of easy-to-use supports, including beam clamps, make installation a breeze.

### Radius Channel for Trolleys

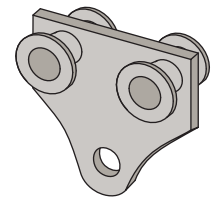


Four Wheel Trolley

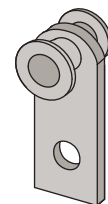
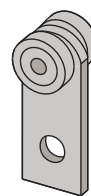
Four Wheel Trolley



Two Wheel Trolley

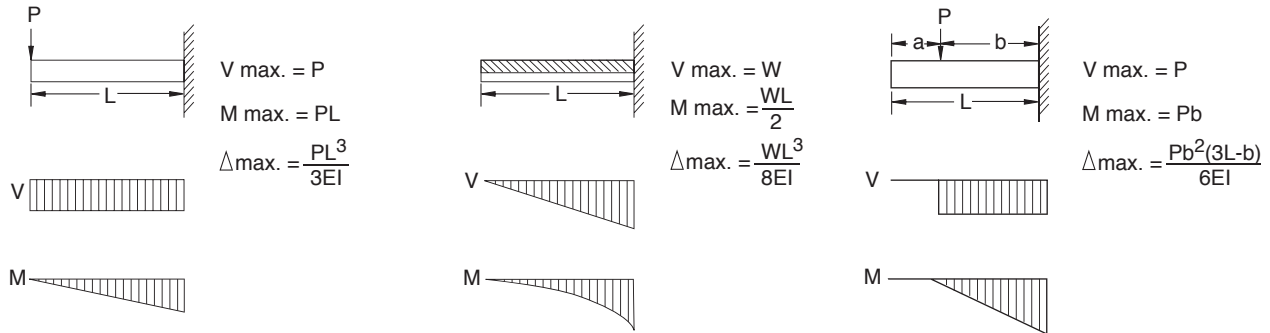


Two Wheel Trolley

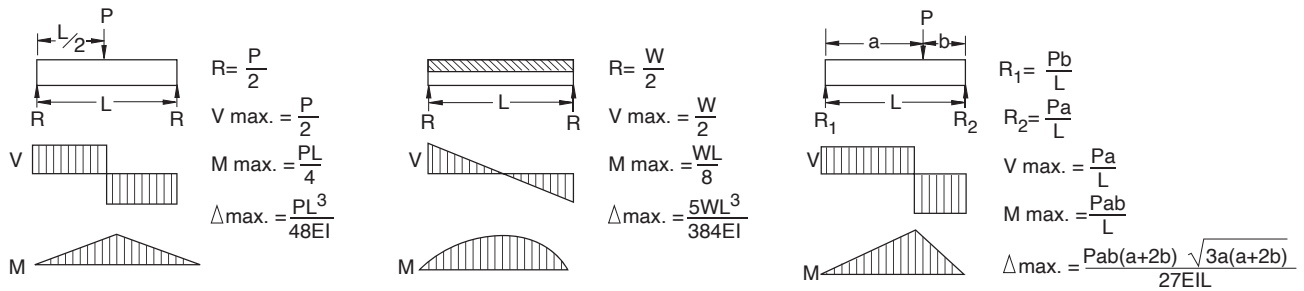


See pages 111 - 112 for more trolley information

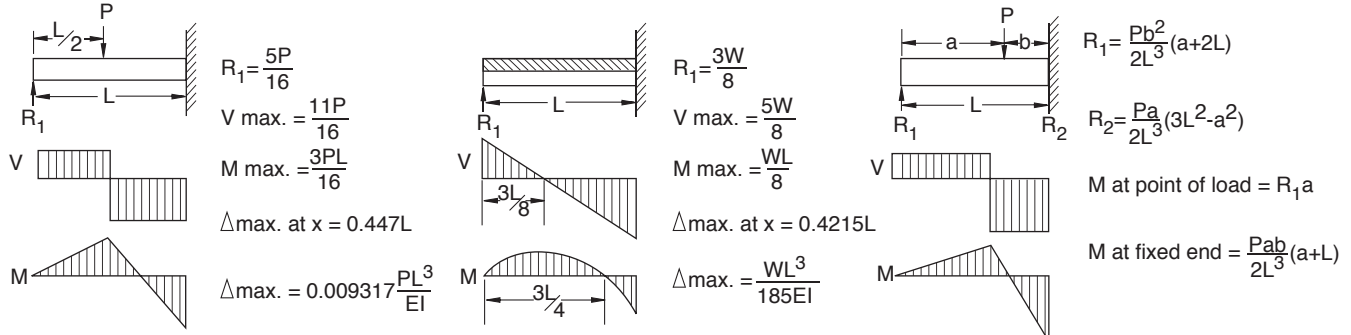
## Cantilever Beams



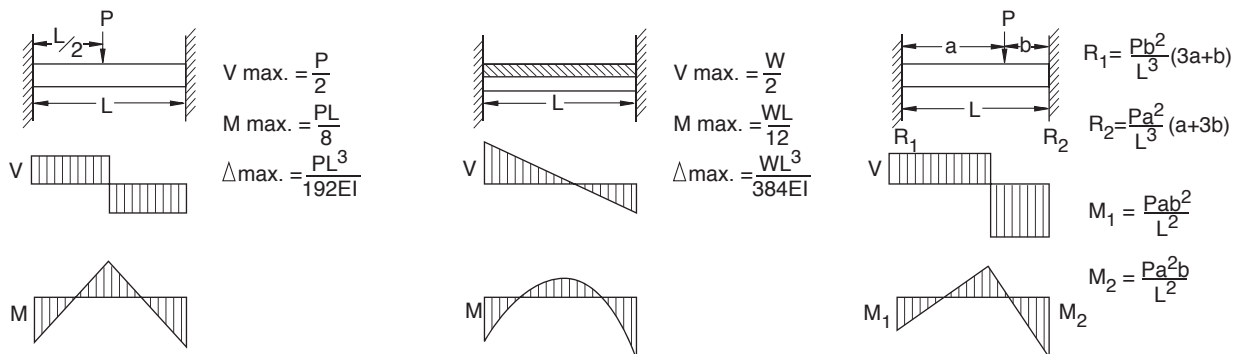
## Simple Beams



## Beams Fixed At One End & Supported At The Other



## Beams Fixed At Both Ends



R – Reaction  
 M – Moment  
 P – Concentrated Load

W – Total Uniform Load  
 V – Shear  
 L – Length

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

All Beam Load tables are for simple beams supported at the ends. These can be used in the majority of the cases. There are times when it is necessary to know what happens with other loading and support conditions. Some common arrangements are shown below. Simply multiply the values from the Beam Load tables by factors given below.

| Load and Support Condition  |  | Load Factor | Deflection Factor |
|---|--|-------------|-------------------|
| <b>Simple Beam</b><br>Uniform Load  |  | 1.00        | 1.00              |
| <b>Simple Beam</b><br>Concentrated Load at Center                                     |  | 0.50        | 0.80              |
| <b>Simple Beam</b><br>Two Equal Concentrated Loads at 1/4 Points                      |  | 1.00        | 1.10              |
| <b>Beam Fixed at Both Ends</b><br>Uniform Load  |  | 1.50        | 0.30              |
| <b>Beam Fixed at Both Ends</b><br>Concentrated Load at Center                         |  | 1.00        | 0.40              |
| <b>Cantilever Beam</b><br>Uniform Load  |  | 0.25        | 2.40              |
| <b>Cantilever Beam</b><br>Concentrated Load at End                                    |  | 0.12        | 3.20              |
| <b>Continuous Beam</b><br>Two Equal Spans - Uniform Load on One Span                  |  | 1.30        | 0.92              |
| <b>Continuous Beam</b><br>Two Equal Spans - Uniform Load on Both Spans                |  | 1.00        | 0.42              |
| <b>Continuous Beam</b><br>Two Equal Spans - Concentrated Load at Center of One Span   |  | 0.62        | 0.71              |
| <b>Continuous Beam</b><br>Two Equal Spans - Concentrated Load at Center of Both Spans |  | 0.67        | 0.48              |

**EXAMPLE I**

**PROBLEM:**  
Calculate the load and deflection of an W200 (1<sup>5</sup>/<sub>8</sub>" x 1<sup>5</sup>/<sub>8</sub>" 12 gauge) beam continuous over one support and loaded uniformly on one span.

**SOLUTION:**

A. From load table for W200 the load for a 60" span is 700 lbs. and deflection is 0.35".

B. Multiply by factors from Table above  
Load = 700 lb. x 1.30 = 910 lbs.  
Deflection = 0.35" x 0.92 = 0.322"

**EXAMPLE II**

**PROBLEM:**  
Determine load and deflection of an W150 (1<sup>5</sup>/<sub>8</sub>" x 3<sup>1</sup>/<sub>4</sub>" 12 gauge) cantilever beam with a concentrated load on the end.

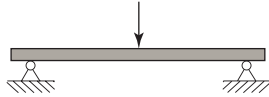
**SOLUTION:**

A. From load table for W150 the load for a 24" span is 5,360 lbs. and deflection is 0.09".

B. Multiply by factors from Table above.  
Load = 5,360 lbs. x 0.12 = 643.2 lbs.  
Deflection = 0.09" x 3.20 = 0.288"

Beams are structural members loaded at right angles (perpendicular) to their length. Most beams are horizontal and subjected to gravity or vertical loads, e.g. a shelf support. However a vertical member can act as a beam under certain conditions, such as, a curtain wall mullion subjected to wind loading. The bending moment developed in a beam is dependent on:

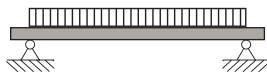
- (a) The amount of load applied
- (b) The type of loading applied
- (c) The support conditions



## Beam Loading - Point Load

A load concentrated onto a very small length of the beam is a point load.

## Beam Loading - Uniform Load



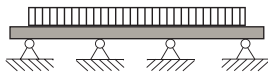
A load spread evenly over a relatively long length of the beam is a uniform load.

Point and uniform loads can be placed on a beam in any combination. A series of point loads can approximate a uniform loading. The load charts and tables are based on a uniform load unless identified otherwise.

## Support Conditions - Simple Beam

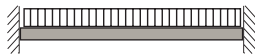
A simple beam has supports that prevent movement left and right, or up and down, but do not restrain the beam from rotating at the supports into a natural deflected curve. Most connections produce simple beams. The load charts and tables are based on simple beams unless identified otherwise.

## Support Conditions - Continuous Beam



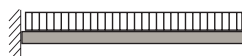
Any simple beam that is supported at one or more intermediate points is a continuous beam. A mezzanine joist that passes over three or more columns is an example of a continuous beam.

## Support Conditions - Fixed-End Beam



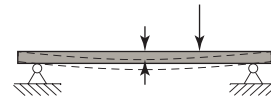
Supports that prevent the beam from rotating into a natural deflected curve produce a fixed-end beam. A welded end connection to very rigid support produces a fixed-end beam.

## Support Conditions - Cantilever Beam



A cantilever beam is a fixed-end beam that is supported at one end only, while the other end is unsupported. Brackets are examples of cantilever beams.

## Deflection



All beams deflect under load. The amount of deflection is dependent on:

- (a) The amount of load,
- (b) The support conditions,
- (c) The stiffness of the beam's cross-sectional shape,
- (d) The stiffness of the beam material

The stiffness of the beam's cross-sectional shape is measured by its "Moment Of Inertia" or "I". The larger a beam's "I", the stiffer it is and the less it will deflect. A beam's "I" can change for each major axis. The "I" of both major axes (I 1-1 and I 2-2) are provided.

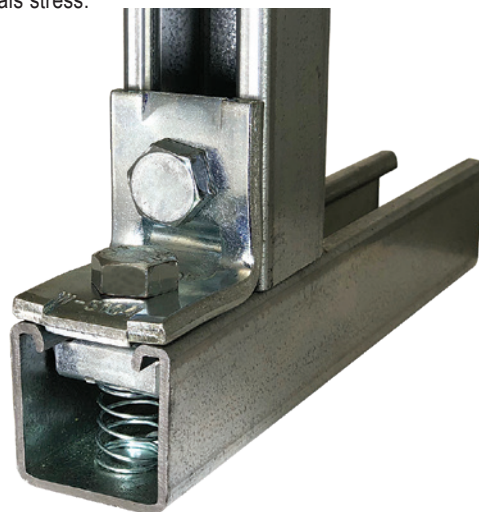
The stiffness of a beam's material is measured by its "Modulus of Elasticity" or "E". The larger a material's "E", the stiffer it is and the less it deflects. For example, steel is about three times stiffer than aluminum and as a result, deflects only one-third as much. Do not confuse stiffness with strength. Two materials may have identical strengths yet still have different "E's". A high-strength aluminum may be as strong as steel and still deflect three times as much.

The load charts and tables give calculated deflections for the loads shown. In many cases, a final design will be determined by the maximum deflection, not the maximum load.

## Bending Moment

A beam must not only hold up the anticipated loads, but must also have sufficient additional capacity to safely hold unforeseen variations in applied loads and material strengths. This additional capacity is called a safety factor and is usually regulated by the various design codes and standards. A beam's strength is usually measured by an allowable bending moment or an allowable stress. The traditional approach is the allowable stress method, where a beam is determined to have a maximum allowable stress (in pounds per square inch) which is not to be exceeded.

The approach of the current AISI S100-2016 "Specification For The Design Of Cold-Formed Steel Structural Members" is to use a maximum allowable bending moment (in inch-pounds) which is not to be exceeded. Bending moment divided by a beam's section modulus or "S" equals stress.



Columns are structural members that are loaded parallel to their length. Most columns are vertical and are used to carry loads from a higher level to a lower level. However, any member subjected to compression loads, such as a diagonal or prop brace, is a column.

A column fails by “buckling”, which is a sudden loss of straightness and subsequent collapse. Allowable column load is dependent on:

- (a) The length of column
- (b) The type of loading
- (c) The support conditions
- (d) The column’s cross-sectional shape and material.

## Column Length

The column length is measured from braced point to braced point. A braced point is where the column is restrained from lateral movement (translation) in all directions.

## Column Loading – Concentric Loading

Loads applied to the center of gravity of the column cross-section are considered concentric. A beam that passes over and rests on the top of a column is an example of concentric loading.

## Column Loading – Eccentric Loading

Any load which is not concentric is eccentric. The amount of eccentricity (in inches) has a major effect on the load-carrying capacity of any particular column. A load that is transmitted to a column using a standard fitting bolted to the slot face, is considered eccentric.

The load tables give allowable loads for both concentric (loaded at C G ) and certain eccentric (loaded at slot face) loading. Allowable loads for other eccentric loading must be determined by a qualified design professional.

## Support Conditions

Based on the support conditions, an appropriate “K” value is selected. This “K” value, which mathematically describes the column end conditions, is used in the column design equations. The most common support condition combinations are as follows:

### Support Conditions - Fixed Top – Fixed Bottom

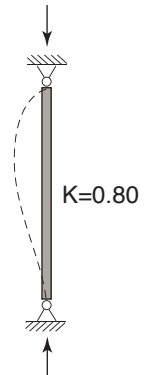
Both ends are restrained against rotation and lateral movement (translation).



### Support Conditions - Pinned Top – Fixed Bottom

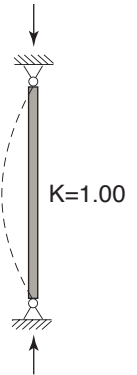
The top is restrained against lateral movement (translation) but is allowed to rotate. The bottom is restrained against rotation and lateral movement.

This is a common support condition and is used to construct the allowable column load applied at the Slot Face tables.



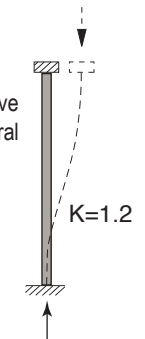
### Support Conditions - Pinned Top – Pinned Bottom

Both ends are restrained against lateral movement (translation) but, are allowed to rotate.



### Support Conditions - Fixed / Free Top – Fixed Bottom

The top is restrained against rotation, but is allowed to move laterally. The bottom is restrained against rotation and lateral movement (translation).



## Cross-Sectional Shape

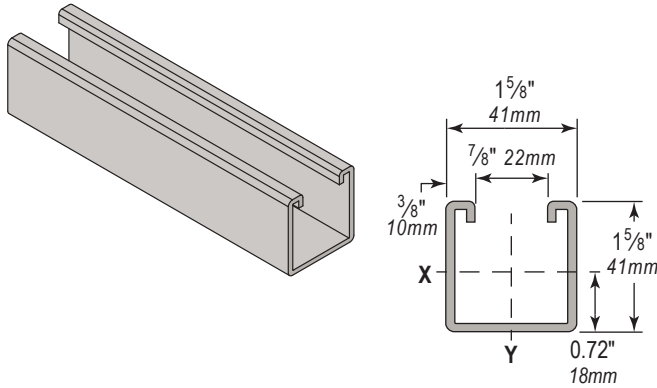
The cross-sectional shape of a column member determines the value of its “Radius of Gyration” or “r”. In general, a member with a large “r” makes a better column than a member with a small “r”. Each axis of a column has a different “r”. Typically the axis with the smallest “r” determines the final design.



- Introduction
- Channel
- Channel Nuts & Hardware
- General Fittings
- Brackets
- Beam Clamps
- Pipe & Conduit Supports
- Electrical Fittings
- Spring Steel
- Concrete Inserts
- Roofing Supports
- Fiberglass System
- Technical Data

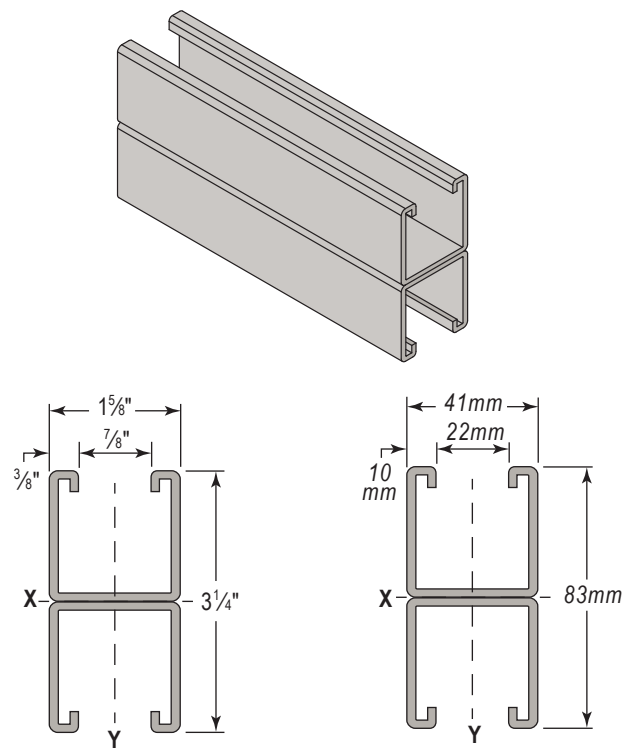


## 1-5/8" x 1-5/8" (41mm x 41mm)



| SPECIFYING Brand & Part No.   | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 1-5/8" |
|---|--------|--------------------------------|---------------|-----------------|
|   |        | VERSABAR                       | FLORIDA STRUT |                 |
|   |        |                                |               |                 |
| <b>Solid Channel</b>  |        |                                |               |                 |
| W200  | 12 Ga. | VA1                            | FS12158NS     |                 |
| W210  | 14 Ga. | VA2                            | FS14158NS     |                 |
| <b>Channel with 17/32" Holes on 1-1/2" center</b>   |        |                                |               |                 |
| W200H15   | 12 Ga. | VA1P15                         | --            |                 |
| W210H15   | 14 Ga. | VA2P15                         | --            |                 |
| <b>Channel with 9/16" Holes on 1-7/8" center *</b>  |        |                                |               |                 |
| W200H   | 12 Ga. | VA1P187                        | FS12158HS     |                 |
| W210H   | 14 Ga. | VA2P187                        | FS14158HS     |                 |
| <b>Channel with 3/4" Holes on 1-7/8" center</b>   |        |                                |               |                 |
| W200CX  | 12 Ga. | VA1CHD                         | --            |                 |
| <b>Channel with Knock-Outs on 6" center *</b>   |        |                                |               |                 |
| W200KO  | 12 Ga. | VA1KO6                         | --            |                 |
| W210KO  | 14 Ga. | VA2KO6                         | --            |                 |
| <b>Channel with 9/16" x 1-1/8" Short Slots on 2" center</b>   |        |                                |               |                 |
| W200EH  | 12 Ga. | VA1PLH                         | FS12158EH     |                 |
| W210EH  | 14 Ga. | VA2PLH                         | FS14158EH     |                 |
| <b>Channel with 11/16" x 1-1/8" Short Slots on 2" center Allows use with 5/8" threaded rod or bolts</b> |        |                                |               |                 |
| W200EH58  | 12 Ga. | VA1PLW                         | --            |                 |
| W210EH58  | 14 Ga. | VA2PLW                         | --            |                 |
| <b>Channel with 13/32" x 3" Long Slots on 4" center</b>   |        |                                |               |                 |
| W200SL  | 12 Ga. | VA1P3S                         | FS12158SL     |                 |
| W210SL  | 14 Ga. | VA2P3S                         | FS14158SL     |                 |

## 1-5/8" x 3-1/4" (41mm x 83mm)



| SPECIFYING Brand & Part No.                                     | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 3-1/4" |
|---|--------|--------------------------------|---------------|-----------------|
|   |        | VERSABAR                       | FLORIDA STRUT |                 |
|   |        |                                |               |                 |
| <b>Back-to-Back Solid Channel</b>                               |        |                                |               |                 |
| W201  | 12 Ga. | VA1201                         | FS12158NSBB   |                 |
| W211  | 14 Ga. | VA2201                         | FS14158NSBB   |                 |
| <b>Back-to-Back Channel with 9/16" Holes on 1-7/8" center *</b> |        |                                |               |                 |
| W201H   | 12 Ga. | VA1201P187                     | FS12158HSBB   |                 |
| W211H   | 14 Ga. | VA2201P187                     | FS14158HSBB   |                 |
| <b>Back-to-Back with 9/16" x 1-1/8" Short Slots</b>             |        |                                |               |                 |
| W201EH  | 12 Ga. | VA1201PLH                      | FS12158EHBB   |                 |
| W211EH  | 14 Ga. | VA2201PLH                      | FS14158EHBB   |                 |
| <b>Back-to-Back with 11/16" x 1-1/8" Short Slots</b>            |        |                                |               |                 |
| W201EH58  | 12 Ga. | VA1201PLW                      | --            |                 |
| W211EH58  | 14 Ga. | VA2201PLW                      | --            |                 |

\* Various patterns available, contact representative for more information

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available  
**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum  
**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.



# 1-5/8" x 1-5/8" (41mm x 41mm) Channel



## 12 Gauge Channel Load Data

### Section Properties

| 12 Gauge<br>SPECIFYING<br>Brand & Part No.<br>WESANCO              | Wt./Ft.<br>Lbs.<br>(Kg/M) | Area of<br>Section<br>Sq. in.<br>(Sq. cm) | X-X Axis                                     |  |                    | Y-Y Axis                                     |  |                   | DISCONTINUED<br>Brands & Part No. |               |
|--|---------------------------|---|--|--|--------------------|--|--|-------------------|-----------------------------------|---------------|
|  |                           |   | lx in. <sup>4</sup><br>(lx cm <sup>4</sup> ) | Sx in. <sup>3</sup><br>(Sx cm <sup>3</sup> ) | rx in.<br>(rx. cm) | ly in. <sup>4</sup><br>(ly cm <sup>4</sup> ) | Sy in. <sup>3</sup><br>(Sy cm <sup>3</sup> ) | ry in.<br>(ry cm) | VERSABAR                          | FLORIDA STRUT |
| <b>1 5/8" x 1 5/8" (41mm x 41mm) 12 Gauge Channel</b>              |                           |   |  |  |                    |  |  |                   |                                   |               |
| W200   | 1.91 (2.84)               | 0.561 (3.62)                              | 0.188 (7.83)                                 | 0.207 (3.39)                                 | 0.579 (1.47)       | 0.238 (9.91)                                 | 0.293 (4.80)                                 | 0.652 (1.66)      | VA1                               | FS12158NS     |
| <b>1 5/8" x 3 1/4" (41mm x 83mm) 12 Gauge Back-to-Back Channel</b> |                           |   |  |  |                    |  |  |                   |                                   |               |
| W201   | 3.82 (5.68)               | 1.122 (7.24)                              | 0.954 (39.71)                                | 0.587 (9.62)                                 | 0.922 (2.34)       | 0.477 (19.85)                                | 0.587 (9.62)                                 | 0.652 (1.66)      | VA1201                            | FS12158NSBB   |

### 1 5/8" x 1 5/8" (41mm x 41mm) 12 Gauge Channel

#### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             |                                     |
| 12 (305)    | 3,480 (15.5)          | 0.01 (0.25)            | 3,480 (15.5)                         | 1.00                                |
| 24 (610)    | 1,740 (7.7)           | 0.06 (1.52)            | 1,740 (7.7)                          | 1.00                                |
| 36 (914)    | 1,160 (5.2)           | 0.13 (3.30)            | 1,160 (5.2)                          | 0.93                                |
| 48 (1,219)  | 870 (3.9)             | 0.23 (5.84)            | 770 (3.4)                            | 0.87                                |
| 60 (1,524)  | 700 (3.1)             | 0.35 (8.89)            | 490 (2.2)                            | 0.82                                |
| 72 (1,829)  | 580 (2.6)             | 0.51 (12.95)           | 340 (1.5)                            | 0.77                                |
| 84 (2,134)  | 500 (2.2)             | 0.7 (17.78)            | 250 (1.1)                            | 0.74                                |
| 96 (2,438)  | 430 (1.9)             | 0.89 (22.61)           | 190 (0.8)                            | 0.70                                |
| 108 (2,743) | 390 (1.7)             | 1.15 (29.21)           | 150 (0.7)                            | 0.67                                |
| 120 (3,048) | 350 (1.6)             | 1.42 (36.07)           | 120 (0.5)                            | 0.65                                |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 3,870 (17.2)        | 11,640 (51.8)                            |
| 24 (610)        | 3,620 (16.1)        | 8,830 (39.3)                             |
| 36 (914)        | 3,250 (14.5)        | 6,420 (28.6)                             |
| 48 (1,219)      | 2,800 (12.5)        | 4,710 (21.0)                             |
| 60 (1,524)      | 2,410 (10.7)        | 3,650 (16.2)                             |
| 72 (1,829)      | 2,110 (9.4)         | 2,970 (13.2)                             |
| 84 (2,134)      | 1,870 (8.3)         | 2,490 (11.1)                             |
| 96 (2,438)      | 1,680 (7.5)         | 2,120 (9.4)                              |
| 108 (2,743)     | 1,530 (6.8)         | 1,830 (8.1)                              |
| 120 (3,048)     | 1,390 (6.2)         | **                                       |

### 1 5/8" x 3 1/4" (41mm x 83mm) 12 Gauge Back-to-Back Channel

#### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             |                                     |
| 12 (305)    | 3,510 (15.6) *        | 0.00                   | 3,510 (15.6) *                       | 1.00                                |
| 24 (610)    | 3,510 (15.6) *        | 0.02 (0.51)            | 3,510 (15.6) *                       | 1.00                                |
| 36 (914)    | 3,280 (14.6)          | 0.07 (1.78)            | 3,280 (14.6)                         | 1.00                                |
| 48 (1,219)  | 2,460 (10.9)          | 0.13 (3.30)            | 2,460 (10.9)                         | 1.00                                |
| 60 (1,524)  | 1,970 (8.8)           | 0.20 (5.08)            | 1,970 (8.8)                          | 0.96                                |
| 72 (1,829)  | 1,640 (7.3)           | 0.28 (7.11)            | 1,640 (7.3)                          | 0.92                                |
| 84 (2,134)  | 1,410 (6.3)           | 0.39 (9.91)            | 1,280 (5.7)                          | 0.88                                |
| 96 (2,438)  | 1,230 (5.5)           | 0.50 (12.70)           | 980 (4.4)                            | 0.85                                |
| 108 (2,743) | 1,090 (4.8)           | 0.64 (16.26)           | 770 (3.4)                            | 0.81                                |
| 120 (3,048) | 980 (4.4)             | 0.78 (19.81)           | 630 (2.8)                            | 0.77                                |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 6,700 (29.8)        | 25,120 (111.7)                           |
| 24 (610)        | 6,580 (29.3)        | 22,900 (101.9)                           |
| 36 (914)        | 6,430 (28.6)        | 20,810 (92.6)                            |
| 48 (1,219)      | 6,290 (28.0)        | 18,860 (83.9)                            |
| 60 (1,524)      | 6,130 (27.3)        | 15,680 (69.7)                            |
| 72 (1,829)      | 5,730 (25.5)        | 12,520 (55.7)                            |
| 84 (2,134)      | 5,270 (23.4)        | 9,570 (42.6)                             |
| 96 (2,438)      | 4,770 (21.2)        | 7,320 (32.6)                             |
| 108 (2,743)     | 4,240 (18.9)        | 5,790 (25.8)                             |
| 120 (3,048)     | 3,750 (16.7)        | 4,690 (20.9)                             |

\* Load limited by spot weld shear

\*\* KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

#### Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

|                          |      |
|--------------------------|------|
| Channel with Short Slots | 0.90 |
| Channel with Long Slots  | 0.90 |
| Channel with Holes       | 0.95 |
| Knock-Out Channel        | 0.95 |



### Section Properties

| 14 Gauge<br>SPECIFYING<br>Brand & Part No.                         | Wt./Ft.<br>Lbs.<br>(Kg/M) | Area of<br>Section<br>Sq. in.<br>(Sq. cm) | X-X Axis                                     |  |                     | Y-Y Axis                                     |  |                   | DISCONTINUED<br>Brands & Part No. |               |
|--|---------------------------|---|--|--|---------------------|--|--|-------------------|-----------------------------------|---------------|
|  |                           |   | Ix in. <sup>4</sup><br>(Ix cm <sup>4</sup> ) | Sx in. <sup>3</sup><br>(Sx cm <sup>3</sup> ) | rx. in.<br>(rx. cm) | Iy in. <sup>4</sup><br>(Iy cm <sup>4</sup> ) | Sy in. <sup>3</sup><br>(Sy cm <sup>3</sup> ) | ry in.<br>(ry cm) |                                   |               |
|  |                           |   |  |  |                     |  |  |                   | VERSABAR                          | FLORIDA STRUT |
| <b>1-5/8" x 1-5/8" (41mm x 41mm) 14 Gauge Channel</b>              |                           |   |  |  |                     |  |  |                   |                                   |               |
| <b>W210</b>  | 1.42 (2.11)               | 0.417 (2.69)                              | 0.148 (6.16)                                 | 0.169 (2.77)                                 | 0.596 (1.51)        | 0.183 (7.62)                                 | 0.225 (3.69)                                 | 0.662 (1.68)      | VA2                               | FS14158NS     |
| <b>1-5/8" x 3-1/4" (41mm x 83mm) 14 Gauge Back-to-Back Channel</b> |                           |   |  |  |                     |  |  |                   |                                   |               |
| <b>W211</b>  | 2.84 (4.23)               | 0.834 (5.38)                              | 0.739 (30.76)                                | 0.455 (7.46)                                 | 0.942 (2.39)        | 0.365 (15.19)                                | 0.450 (7.37)                                 | 0.662 (1.68)      | VA2201                            | FS14158NSBB   |

### 1-5/8" x 1-5/8" (41mm x 41mm) 14 Gauge Channel

#### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction |
|-------------|-----------------------|------------------------|--------------------------------------|--------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             | Rate                           |
| 12 (305)    | 2,840 (12.6)          | 0.01 (0.25)            | 2,840 (12.6)                         | 1.00                           |
| 24 (610)    | 1,420 (6.3)           | 0.06 (1.52)            | 1,420 (6.3)                          | 0.99                           |
| 36 (914)    | 950 (4.2)             | 0.13 (3.30)            | 950 (4.2)                            | 0.88                           |
| 48 (1,219)  | 710 (3.2)             | 0.23 (5.84)            | 610 (2.7)                            | 0.77                           |
| 60 (1,524)  | 570 (2.5)             | 0.37 (9.40)            | 390 (1.7)                            | 0.66                           |
| 72 (1,829)  | 470 (2.1)             | 0.52 (13.21)           | 270 (1.2)                            | 0.57                           |
| 84 (2,134)  | 410 (1.8)             | 0.72 (18.29)           | 200 (0.9)                            | 0.50                           |
| 96 (2,438)  | 350 (1.6)             | 0.92 (23.37)           | 150 (0.7)                            | 0.45                           |
| 108 (2,743) | 320 (1.4)             | 1.20 (30.48)           | 120 (0.5)                            | 0.41                           |
| 120 (3,048) | 280 (1.2)             | 1.44 (36.58)           | 100 (0.4)                            | 0.38                           |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 3,110 (13.8)        | 8,660 (38.5)                             |
| 24 (610)        | 2,880 (12.8)        | 6,360 (28.3)                             |
| 36 (914)        | 2,460 (10.9)        | 4,190 (18.6)                             |
| 48 (1,219)      | 1,980 (8.8)         | 2,760 (12.3)                             |
| 60 (1,524)      | 1,570 (7.0)         | 2,050 (9.1)                              |
| 72 (1,829)      | 1,300 (5.8)         | 1,640 (7.3)                              |
| 84 (2,134)      | 1,100 (4.9)         | 1,370 (6.1)                              |
| 96 (2,438)      | 950 (4.2)           | 1,170 (5.2)                              |
| 108 (2,743)     | 840 (3.7)           | 1,030 (4.6)                              |
| 120 (3,048)     | 750 (3.3)           | **                                       |

### 1-5/8" x 3-1/4" (41mm x 83mm) 14 Gauge Back-to-Back Channel

#### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction |
|-------------|-----------------------|------------------------|--------------------------------------|--------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             | Rate                           |
| 12 (305)    | 2,230 (9.9) *         | 0.00                   | 2,230 (9.9) *                        | 1.00                           |
| 24 (610)    | 2,230 (9.9) *         | 0.02 (0.51)            | 2,230 (9.9) *                        | 1.00                           |
| 36 (914)    | 2,230 (9.9) *         | 0.06 (1.52)            | 2,230 (9.9) *                        | 1.00                           |
| 48 (1,219)  | 1,910 (8.5)           | 0.13 (3.30)            | 1,910 (8.5)                          | 0.98                           |
| 60 (1,524)  | 1,530 (6.8)           | 0.20 (5.08)            | 1,530 (6.8)                          | 0.93                           |
| 72 (1,829)  | 1,270 (5.6)           | 0.28 (7.11)            | 1,270 (5.6)                          | 0.87                           |
| 84 (2,134)  | 1,090 (4.8)           | 0.39 (9.91)            | 1,090 (4.8)                          | 0.81                           |
| 96 (2,438)  | 950 (4.2)             | 0.50 (12.70)           | 950 (4.2)                            | 0.76                           |
| 108 (2,743) | 850 (3.8)             | 0.64 (16.26)           | 850 (3.8)                            | 0.70                           |
| 120 (3,048) | 760 (3.4)             | 0.78 (19.81)           | 760 (3.4)                            | 0.64                           |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 5,140 (22.9)        | 18,700 (83.2)                            |
| 24 (610)        | 5,040 (22.4)        | 16,860 (75.0)                            |
| 36 (914)        | 4,890 (21.8)        | 14,760 (65.7)                            |
| 48 (1,219)      | 4,720 (21.0)        | 12,920 (57.5)                            |
| 60 (1,524)      | 4,500 (20.0)        | 11,480 (51.1)                            |
| 72 (1,829)      | 4,230 (18.8)        | 9,280 (41.3)                             |
| 84 (2,134)      | 3,890 (17.3)        | 7,080 (31.5)                             |
| 96 (2,438)      | 3,490 (15.5)        | 5,420 (24.1)                             |
| 108 (2,743)     | 3,060 (13.6)        | 4,280 (19.0)                             |
| 120 (3,048)     | 2,690 (12.0)        | 3,470 (15.4)                             |

\*\* KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

#### Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

- Channel with Short Slots . . . . . 0.90
- Channel with Long Slots . . . . . 0.90
- Channel with Holes . . . . . 0.95
- Knock-Out Channel. . . . . 0.95

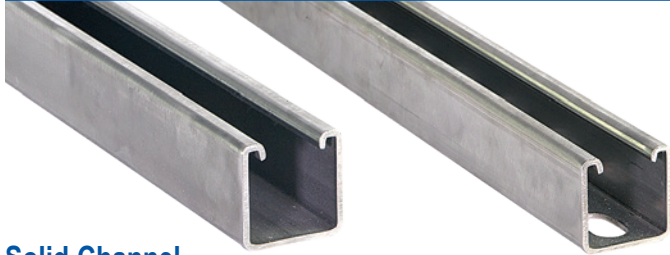


# Pre-Cut Channel - 12 Gauge

1-5/8" x 1-5/8" (41mm x 41mm)



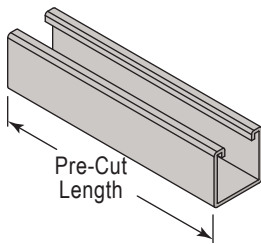
## 1-5/8" x 1-5/8" (41mm x 41mm) Solid or Short Slots Channel Pre-Cut Lengths



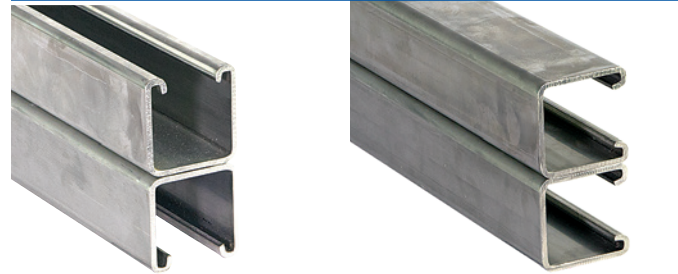
Solid Channel

Channel With Short Slots

9/16" x 1-1/8" (14mm x 29mm)  
Slots are punched on  
2" (51mm) centers.

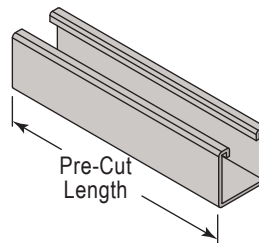


## 1-5/8" x 3-1/4" (41mm x 83mm) Solid Combination Channel Pre-Cut Lengths



Back-to-Back

Side-to-Side



| Pre-Cut Length | Part Number Order Chart for Different Options   |                          |
|----------------|---|--------------------------|
|                | SPECIFYING Brand & Part No.   |                          |
|                | <b>WESANCO</b>  |                          |
| 6" (15.2cm)    | W200 XXXXX XXXX   |                          |
| 12" (0.31m)    | Style:<br>W200 - Solid<br>W200EH - Short Slots  | Length:<br>06IN 48IN     |
| 18" (0.45m)    |   | 12IN 54IN                |
| 24" (0.61m)    |   | 18IN 60IN                |
| 30" (0.76m)    |   | 24IN 72IN                |
| 36" (0.91m)    |   | 30IN 80IN                |
| 42" (1.07m)    |   | 36IN 96IN                |
| 48" (1.22m)    | Material/Finish:<br>PG - Pre-Galvanized<br>S4 - Stainless Steel Type 304<br>S6 - Stainless Steel Type 316 | 42IN                     |
| 54" (1.37m)    |   |                          |
| 60" (1.52m)    |   |                          |
| 72" (1.83m)    |   |                          |
| 80" (2.03m)    |   |                          |
| 96" (2.44m)    |   |                          |
| 10' (3.05m)    |   |                          |
| 20' (6.10m)    |   |                          |
|                | EXAMPLE: W200S648IN   |                          |
|                | 1-5/8" x 1-5/8"   | 48IN - 48" Long          |
|                | W200 - Solid Channel  |                          |
|                |   | S6 - 316 Stainless Steel |

Note: Minimum order quantity is 100 pieces for any size under 10'.

| Pre-Cut Length | Part Number Order Chart for Different Options   |                          |
|----------------|---|--------------------------|
|                | SPECIFYING Brand & Part No.   |                          |
|                | <b>WESANCO</b>  |                          |
| 6" (15.2cm)    | W201 XXXXX XXXX   |                          |
| 12" (0.31m)    | Style:<br>W201 - Back-to-Back<br>W202 - Side-to-Side  | Length:<br>06IN 48IN     |
| 18" (0.45m)    |   | 12IN 54IN                |
| 24" (0.61m)    |   | 18IN 60IN                |
| 30" (0.76m)    |   | 24IN 72IN                |
| 36" (0.91m)    |   | 30IN 80IN                |
| 42" (1.07m)    |   | 36IN 96IN                |
| 48" (1.22m)    | Material/Finish:<br>PG - Pre-Galvanized<br>S4 - Stainless Steel Type 304<br>S6 - Stainless Steel Type 316 | 42IN                     |
| 54" (1.37m)    |   |                          |
| 60" (1.52m)    |   |                          |
| 72" (1.83m)    |   |                          |
| 80" (2.03m)    |   |                          |
| 96" (2.44m)    |   |                          |
| 10' (3.05m)    |   |                          |
| 20' (6.10m)    |   |                          |
|                | EXAMPLE: W202S648IN   |                          |
|                | 1-5/8" x 3-1/4"   | 48IN - 48" Long          |
|                | W202 - Side-to-Side   |                          |
|                |   | S6 - 316 Stainless Steel |

Note: Minimum order quantity is 100 pieces for any size under 10'.

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available  
**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum  
**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.



Introduction

Channel

Channel Nuts & Hardware

General Fittings

Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

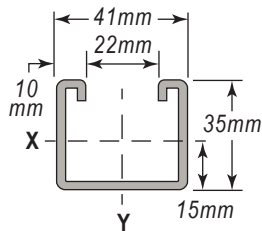
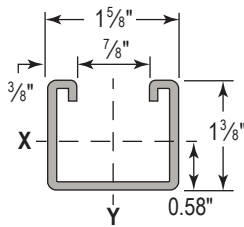
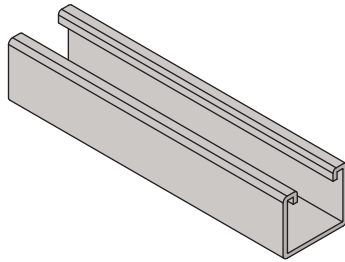
Concrete Inserts

Roofing Supports

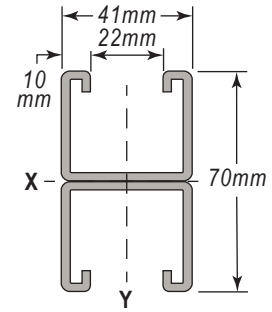
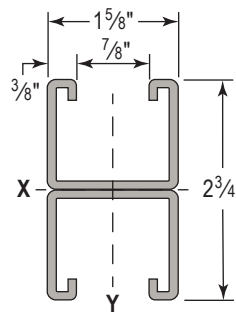
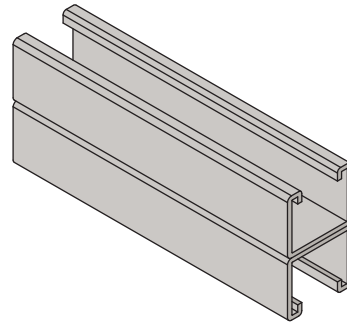
Fiberglass System

Technical Data

## 1-5/8" x 1-3/8" (41mm x 35mm)



## 1-5/8" x 2-3/4" (41mm x 70mm)



| SPECIFYING Brand & Part No.                                  | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 1-3/8" |
|--|--------|--------------------------------|---------------|-----------------|
|  |        | VERSABAR                       | FLORIDA STRUT |                 |
| <b>Solid Channel</b>   |        |                                |               |                 |
| W300   | 12 Ga. | VA6                            | FS12138NS     |                 |
| <b>Channel with 9/16" Holes on 1-7/8" center *</b>           |        |                                |               |                 |
| W300H  | 12 Ga. | VA6P187                        | FS12138HS     |                 |
| <b>Channel with Knock-Outs on 6" center *</b>                |        |                                |               |                 |
| W300KO   | 12 Ga. | VA6KO6                         | --            |                 |
| <b>Channel with 9/16" x 1-1/8" Short Slots on 2" center</b>  |        |                                |               |                 |
| W300EH   | 12 Ga. | VA6PLH                         | FS12138EH     |                 |
| <b>Channel with 11/16" x 1-1/8" Short Slots on 2" center</b> |        |                                |               |                 |
| W300EH58   | 12 Ga. | VA6PLW                         | --            |                 |
| <b>Channel with 13/32" x 3" Long Slots on 4" center</b>      |        |                                |               |                 |
| W300SL   | 12 Ga. | VA6P3S                         | FS12138SL     |                 |

\* Various hole patterns available, contact representative for more information

| SPECIFYING Brand & Part No.                          | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 2-3/4" |
|--|--------|--------------------------------|---------------|-----------------|
|  |        | VERSABAR                       | FLORIDA STRUT |                 |
| <b>Back-to-Back Solid Channel</b>                    |        |                                |               |                 |
| W301   | 12 Ga. | VA6201                         | FS12138NSBB   |                 |
| <b>Back-to-Back with 9/16" x 1-1/8" Short Slots</b>  |        |                                |               |                 |
| W301EH   | 12 Ga. | VA6201PLH                      | FS12138EHBB   |                 |
| <b>Back-to-Back with 11/16" x 1-1/8" Short Slots</b> |        |                                |               |                 |
| W301EH58   | 12 Ga. | VA6201PLW                      | --            |                 |

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available

**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum

**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.





# 1-5/8" x 1-3/8" (41mm x 35mm) Channel



## 12 Gauge Channel Load Data

### Section Properties

| 12 Gauge<br>SPECIFYING<br>Brand & Part No.                         | Wt./Ft.<br>Lbs.<br>(Kg/M) | Area of<br>Section<br>Sq. in.<br>(Sq. cm) | X-X Axis                                     |  |                     | Y-Y Axis                                     |  |                   | DISCONTINUED<br>Brands & Part No. |               |
|--|---------------------------|---|--|--|---------------------|--|--|-------------------|-----------------------------------|---------------|
|  |                           |   | lx in. <sup>4</sup><br>(lx cm <sup>4</sup> ) | Sx in. <sup>3</sup><br>(Sx cm <sup>3</sup> ) | rx. in.<br>(rx. cm) | ly in. <sup>4</sup><br>(ly cm <sup>4</sup> ) | Sy in. <sup>3</sup><br>(Sy cm <sup>3</sup> ) | ry in.<br>(ry cm) | VERSABAR                          | FLORIDA STRUT |
| <b>1 5/8" x 1 3/8" (41mm x 35mm) 12 Gauge Channel</b>              |                           |   |  |  |                     |  |  |                   |                                   |               |
| <b>W300</b>  | 1.73 (2.57)               | 0.508 (3.28)                              | 0.123 (5.12)                                 | 0.158 (2.59)                                 | 0.491 (1.25)        | 0.208 (8.66)                                 | 0.256 (4.20)                                 | 0.64 (1.63)       | VA6                               | FS12138NS     |
| <b>1 5/8" x 2 3/4" (41mm x 70mm) 12 Gauge Back-to-Back Channel</b> |                           |   |  |  |                     |  |  |                   |                                   |               |
| <b>W301</b>  | 3.46 (5.15)               | 1.017 (6.56)                              | 0.608 (25.31)                                | 0.443 (7.26)                                 | 0.774 (1.97)        | 0.416 (17.32)                                | 0.512 (8.39)                                 | 0.64 (1.63)       | VA6201                            | FS12138NSBB   |

### 1 5/8" x 1 3/8" (41mm x 35mm) 12 Gauge Channel

#### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             |                                     |
| 12 (305)    | 2,650 (11.8)          | 0.02 (0.5)             | 2,650 (11.8)                         | 1.00                                |
| 24 (610)    | 1,320 (5.9)           | 0.07 (1.8)             | 1,320 (5.9)                          | 1.00                                |
| 36 (914)    | 880 (3.9)             | 0.15 (3.8)             | 880 (3.9)                            | 0.96                                |
| 48 (1,219)  | 660 (2.9)             | 0.26 (6.6)             | 500 (2.2)                            | 0.91                                |
| 60 (1,524)  | 530 (2.4)             | 0.41 (10.4)            | 320 (1.4)                            | 0.87                                |
| 72 (1,829)  | 440 (2.0)             | 0.59 (15.0)            | 220 (1.0)                            | 0.84                                |
| 84 (2,134)  | 380 (1.7)             | 0.81 (20.6)            | 160 (0.7)                            | 0.81                                |
| 96 (2,438)  | 330 (1.5)             | 1.05 (26.7)            | 130 (0.6)                            | 0.78                                |
| 108 (2,743) | 290 (1.3)             | 1.31 (33.3)            | 100 (0.4)                            | 0.76                                |
| 120 (3,048) | 260 (1.2)             | 1.62 (41.1)            | 80 (0.4)                             | 0.74                                |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 3,480 (15.5)        | 10,550 (46.9)                            |
| 24 (610)        | 3,260 (14.5)        | 8,150 (36.3)                             |
| 36 (914)        | 2,980 (13.3)        | 6,180 (27.5)                             |
| 48 (1,219)      | 2,640 (11.7)        | 4,760 (21.2)                             |
| 60 (1,524)      | 2,340 (10.4)        | 3,720 (16.5)                             |
| 72 (1,829)      | 2,080 (9.3)         | 3,010 (13.4)                             |
| 84 (2,134)      | 1,860 (8.3)         | 2,470 (11.0)                             |
| 96 (2,438)      | 1,680 (7.5)         | 1,890 (8.4)                              |
| 108 (2,743)     | 1,480 (6.6)         | **                                       |
| 120 (3,048)     | 1,280 (5.7)         | **                                       |

### 1 5/8" x 2 3/4" (41mm x 70mm) 12 Gauge Back-to-Back Channel

#### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             |                                     |
| 12 (305)    | 3,070 (13.7) *        | 0.00                   | 3,070 (13.7) *                       | 1.00                                |
| 24 (610)    | 3,070 (13.7) *        | 0.03 (0.5)             | 3,070 (13.7) *                       | 1.00                                |
| 36 (914)    | 2,480 (11.0)          | 0.08 (1.8)             | 2,480 (11.0)                         | 1.00                                |
| 48 (1,219)  | 1,860 (8.3)           | 0.15 (3.8)             | 1,860 (8.3)                          | 1.00                                |
| 60 (1,524)  | 1,490 (6.6)           | 0.23 (5.8)             | 1,490 (6.6)                          | 0.98                                |
| 72 (1,829)  | 1,240 (5.5)           | 0.34 (8.6)             | 1,110 (4.9)                          | 0.95                                |
| 84 (2,134)  | 1,060 (4.7)           | 0.46 (11.7)            | 810 (3.6)                            | 0.91                                |
| 96 (2,438)  | 930 (4.1)             | 0.60 (15.2)            | 620 (2.8)                            | 0.88                                |
| 108 (2,743) | 830 (3.7)             | 0.76 (19.3)            | 490 (2.2)                            | 0.85                                |
| 120 (3,048) | 740 (3.3)             | 0.93 (23.6)            | 400 (1.8)                            | 0.82                                |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 6,000 (26.7)        | 22,700 (101.0)                           |
| 24 (610)        | 5,890 (26.2)        | 20,730 (92.2)                            |
| 36 (914)        | 5,770 (25.7)        | 19,080 (84.9)                            |
| 48 (1,219)      | 5,670 (25.2)        | 16,850 (75.0)                            |
| 60 (1,524)      | 5,470 (24.3)        | 13,900 (61.8)                            |
| 72 (1,829)      | 5,150 (22.9)        | 10,990 (48.9)                            |
| 84 (2,134)      | 4,740 (21.1)        | 8,320 (37.0)                             |
| 96 (2,438)      | 4,280 (19.0)        | 6,370 (28.3)                             |
| 108 (2,743)     | 3,800 (16.9)        | 5,030 (22.4)                             |
| 120 (3,048)     | 3,370 (15.0)        | 4,070 (18.1)                             |

\* Load limited by spot weld shear

\*\* KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

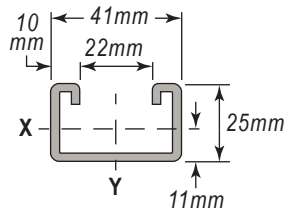
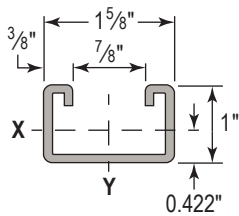
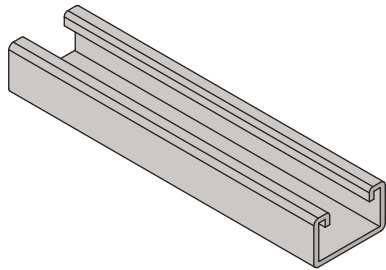
#### Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

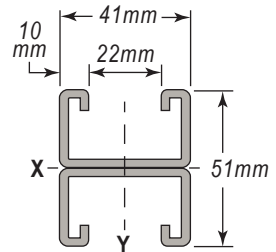
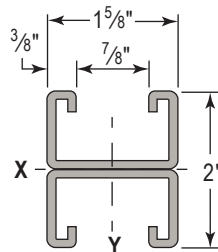
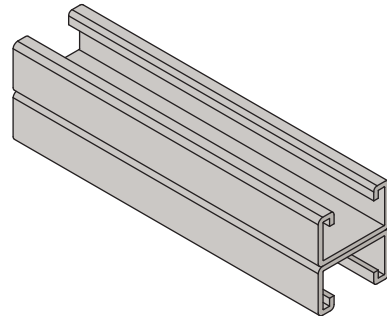
|                          |      |
|--------------------------|------|
| Channel with Short Slots | 0.90 |
| Channel with Long Slots  | 0.90 |
| Channel with Holes       | 0.95 |
| Knock-Out Channel        | 0.95 |



## 1-5/8" x 1" (41mm x 25mm)



## 1-5/8" x 2" (41mm x 51mm)



| SPECIFYING Brand & Part No.                                  | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 1" |
|--|--------|--------------------------------|---------------|-------------|
|  |        | VERSABAR                       | FLORIDA STRUT |             |
| <b>Solid Channel</b>   |        |                                |               |             |
| W800   | 12 Ga. | VA10                           | FS12100NS     |             |
| <b>Channel with 9/16" Holes on 1-7/8" center *</b>           |        |                                |               |             |
| W800H  | 12 Ga. | VA10P187                       | FS12100HS     |             |
| <b>Channel with 3/4" Holes on 1-7/8" center</b>              |        |                                |               |             |
| W800CX   | 12 Ga. | VA10CHD                        | --            |             |
| <b>Channel with 9/16" x 1-1/8" Short Slots on 2" center</b>  |        |                                |               |             |
| W800EH   | 12 Ga. | VA10PLH                        | FS12100EH     |             |
| <b>Channel with 11/16" x 1-1/8" Short Slots on 2" center</b> |        |                                |               |             |
| W800EH58   | 12 Ga. | VA10PLW                        | --            |             |
| <b>Channel with 13/32" x 3" Long Slots on 4" center</b>      |        |                                |               |             |
| W800SL   | 12 Ga. | VA10P3S                        | FS12100SL     |             |

\* Various hole patterns available, contact representative for more information

| SPECIFYING Brand & Part No.                                  | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 2" |
|--|--------|--------------------------------|---------------|-------------|
|  |        | VERSABAR                       | FLORIDA STRUT |             |
| <b>Back-to-Back Solid Channel</b>                            |        |                                |               |             |
| W801   | 12 Ga. | VA10201                        | FS12100NSBB   |             |
| <b>Back-to-Back Channel with 9/16" x 1-1/8" Short Slots</b>  |        |                                |               |             |
| W801EH   | 12 Ga. | VA10201PLH                     | FS12100EHBB   |             |
| <b>Back-to-Back Channel with 11/16" x 1-1/8" Short Slots</b> |        |                                |               |             |
| W801EH58   | 12 Ga. | VA10201PLW                     | -             |             |

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available  
**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum  
**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.



# 1-5/8" x 1" (41mm x 25mm) Channel



## 12 Gauge Channel Load Data

### Section Properties

| 12 Gauge<br>SPECIFYING<br>Brand & Part No.<br>WESANCO          | Wt./Ft.<br>Lbs.<br>(Kg/M) | Area of<br>Section<br>Sq. in.<br>(Sq. cm) | X-X Axis                                     |  |                     | Y-Y Axis                                     |  |                   | DISCONTINUED<br>Brands & Part No. |               |
|--|---------------------------|---|--|--|---------------------|--|--|-------------------|-----------------------------------|---------------|
|  |                           |   | Ix in. <sup>4</sup><br>(Ix cm <sup>4</sup> ) | Sx in. <sup>3</sup><br>(Sx cm <sup>3</sup> ) | rx. in.<br>(rx. cm) | Iy in. <sup>4</sup><br>(Iy cm <sup>4</sup> ) | Sy in. <sup>3</sup><br>(Sy cm <sup>3</sup> ) | ry in.<br>(ry cm) | VERSABAR                          | FLORIDA STRUT |
| <b>1-5/8" x 1" (41mm x 25mm) 12 Gauge Channel</b>              |                           |   |  |  |                     |  |  |                   |                                   |               |
| W800   | 1.46 (2.17)               | 0.43 (2.77)                               | 0.054 (2.25)                                 | 0.093 (1.52)                                 | 0.354 (0.90)        | 0.163 (6.78)                                 | 0.200 (3.28)                                 | 0.615 (1.56)      | VA10                              | FS12100NS     |
| <b>1-5/8" x 2" (41mm x 51mm) 12 Gauge Back-to-Back Channel</b> |                           |   |  |  |                     |  |  |                   |                                   |               |
| W801   | 2.92 (4.35)               | 0.859 (5.54)                              | 0.261 (10.86)                                | 0.261 (4.28)                                 | 0.551 (1.40)        | 0.325 (13.53)                                | 0.400 (6.55)                                 | 0.615 (1.56)      | VA10201                           | FS12100NSBB   |

### 1-5/8" x 1" (41mm x 25mm) 12 Gauge Channel

#### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             |                                     |
| 12 (305)    | 1,560 (6.9)           | 0.02 (0.5)             | 1,560 (6.9)                          | 1.00                                |
| 24 (610)    | 1,040 (4.6)           | 0.05 (1.3)             | 1,040 (4.6)                          | 1.00                                |
| 36 (914)    | 780 (3.5)             | 0.09 (2.3)             | 780 (3.5)                            | 1.00                                |
| 48 (1,219)  | 630 (2.8)             | 0.14 (3.6)             | 570 (2.5)                            | 1.00                                |
| 60 (1,524)  | 520 (2.3)             | 0.20 (5.1)             | 390 (1.7)                            | 1.00                                |
| 72 (1,829)  | 450 (2.0)             | 0.27 (6.9)             | 290 (1.3)                            | 0.97                                |
| 84 (2,134)  | 390 (1.7)             | 0.35 (8.9)             | 220 (1.0)                            | 0.94                                |
| 96 (2,438)  | 310 (1.4)             | 0.55 (14.0)            | 140 (0.6)                            | 0.91                                |
| 108 (2,743) | 260 (1.2)             | 0.79 (20.1)            | 100 (0.4)                            | 0.89                                |
| 120 (3,048) | 220 (1.0)             | 1.07 (27.2)            | 70 (0.3)                             | 0.86                                |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 2,220 (9.9)         | 9,350 (41.6)                             |
| 24 (610)        | 2,190 (9.7)         | 8,580 (38.2)                             |
| 36 (914)        | 2,150 (9.6)         | 7,600 (33.8)                             |
| 48 (1,219)      | 2,090 (9.3)         | 6,500 (28.9)                             |
| 60 (1,524)      | 2,020 (9.0)         | 5,370 (23.9)                             |
| 72 (1,829)      | 1,930 (8.6)         | 4,290 (19.1)                             |
| 84 (2,134)      | 1,820 (8.1)         | 3,320 (14.8)                             |
| 96 (2,438)      | 1,540 (6.9)         | 2,120 (9.4)                              |
| 108 (2,743)     | 1,280 (5.7)         | **                                       |
| 120 (3,048)     | 1,060 (4.7)         | **                                       |

### 1-5/8" x 2" (41mm x 51mm) 12 Gauge Back-to-Back Channel

#### Allowable Beam Loads

| Span        | Max. Un2iform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|------------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)               | In (mm)                | Lbs (kN)                             |                                     |
| 12 (305)    | 2,139 (9.5) *          | 0.01 (0.2)             | 2,139 (9.5) *                        | 1.00                                |
| 24 (610)    | 2,139 (9.5) *          | 0.05 (1.3)             | 2,139 (9.5) *                        | 1.00                                |
| 36 (914)    | 1,460 (6.5)            | 0.12 (2.9)             | 1,460 (6.5)                          | 1.00                                |
| 48 (1,219)  | 1,090 (4.8)            | 0.20 (5.2)             | 1,070 (4.8)                          | 0.94                                |
| 60 (1,524)  | 870 (3.9)              | 0.32 (8.1)             | 680 (3.0)                            | 0.88                                |
| 72 (1,829)  | 730 (3.2)              | 0.46 (11.7)            | 470 (2.1)                            | 0.83                                |
| 84 (2,134)  | 620 (2.8)              | 0.62 (15.8)            | 350 (1.6)                            | 0.77                                |
| 96 (2,438)  | 550 (2.4)              | 0.82 (20.9)            | 270 (1.2)                            | 0.72                                |
| 108 (2,743) | 490 (2.2)              | 1.04 (26.5)            | 210 (0.9)                            | 0.67                                |
| 120 (3,048) | 440 (2.0)              | 1.29 (32.7)            | 170 (0.8)                            | 0.61                                |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 5,660 (25.2)        | 18,430 (82.0)                            |
| 24 (610)        | 5,560 (24.7)        | 17,000 (75.6)                            |
| 36 (914)        | 5,440 (24.2)        | 15,640 (69.6)                            |
| 48 (1,219)      | 5,320 (23.7)        | 14,510 (64.5)                            |
| 60 (1,524)      | 5,210 (23.2)        | 13,590 (60.5)                            |
| 72 (1,829)      | 5,110 (22.7)        | 11,810 (52.5)                            |
| 84 (2,134)      | 4,920 (21.9)        | 10,050 (44.7)                            |
| 96 (2,438)      | 4,320 (19.2)        | 6,820 (30.3)                             |
| 108 (2,743)     | 3,660 (16.3)        | 4,730 (21.0)                             |
| 120 (3,048)     | 3,030 (13.5)        | 3,480 (15.5)                             |

\* Load limited by spot weld shear

\*\* KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

#### Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

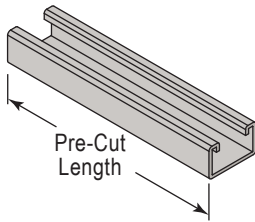
- Channel with Short Slots . . . . . 0.90
- Channel with Long Slots . . . . . 0.90
- Channel with Holes . . . . . 0.95
- Knock-Out Channel. . . . . 0.95



1-5/8" x 1" (41mm x 25mm)  
Solid Channel  
Pre-Cut Lengths



Solid Channel



| Pre-Cut Length | Part Number Order Chart for Different Options   |                          |
|----------------|---|--------------------------|
|                | SPECIFYING Brand & Part No.   |                          |
|                |   |                          |
| 6" (15.2cm)    | W800 XXXXX XXXX   |                          |
| 12" (0.31m)    | Style:<br>W800 - Solid  | Length:                  |
| 18" (0.45m)    |   | 06IN 48IN                |
| 24" (0.61m)    | Material/Finish:<br>PG - Pre-Galvanized<br>S4 - Stainless Steel Type 304<br>S6 - Stainless Steel Type 316 | 12IN 54IN                |
| 30" (0.76m)    |   | 18IN 60IN                |
| 36" (0.91m)    |   | 24IN 72IN                |
| 42" (1.07m)    |   | 30IN 80IN                |
| 48" (1.22m)    |   | 36IN 96IN                |
| 54" (1.37m)    |   | 42IN                     |
| 60" (1.52m)    |   |                          |
| 72" (1.83m)    | EXAMPLE: W800S648IN   |                          |
| 80" (2.03m)    | 1-5/8" x 1"<br>W800 - Solid Channel   | 48IN - 48" Long          |
| 96" (2.44m)    |   |                          |
| 10' (3.05m)    |   |                          |
| 20' (6.10m)    |   | S6 - 316 Stainless Steel |

Note: Minimum order quantity is 100 pieces for any size under 10'.

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available  
**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum  
**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.



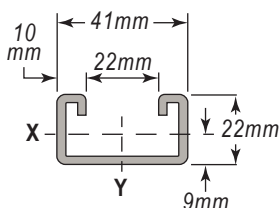
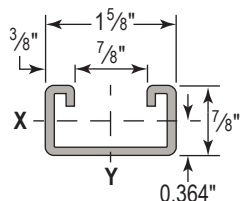
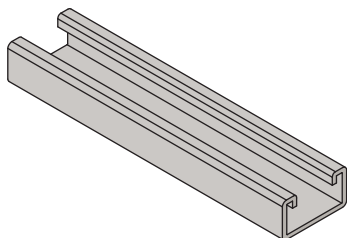


# 1-5/8" x 7/8" (41mm x 22mm) Channel

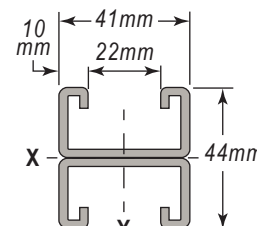
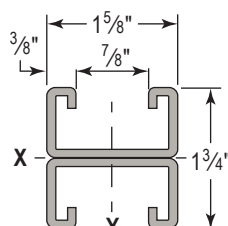
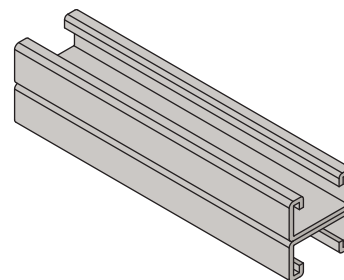


Standard Finish: Pre-Galvanized (PG)

## 1-5/8" x 7/8" (41mm x 22mm)



## 1-5/8" x 1-3/4" (41mm x 44mm)



| SPECIFYING Brand & Part No.                                 | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 7/8" |
|---|--------|--------------------------------|---------------|---------------|
|   |        | VERSABAR                       | FLORIDA STRUT |               |
| <b>Solid Channel</b>  |        |                                |               |               |
| W900  | 12 Ga. | --                             | FS12078NS     |               |
| <b>Channel with 9/16" Holes on 1-7/8" center *</b>          |        |                                |               |               |
| W900H   | 12 Ga. | --                             | FS12078HS     |               |
| <b>Channel with 9/16" x 1-1/8" Short Slots on 2" center</b> |        |                                |               |               |
| W900EH  | 12 Ga. | --                             | FS12078EH     |               |
| <b>Channel with 13/32" x 3" Long Slots on 4" center</b>     |        |                                |               |               |
| W900SL  | 12 Ga. | --                             | FS12078SL     |               |

\* Various hole patterns available, contact representative for more information

| SPECIFYING Brand & Part No.                                     | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 1-3/4" |
|---|--------|--------------------------------|---------------|-----------------|
|   |        | VERSABAR                       | FLORIDA STRUT |                 |
| <b>Back-to-Back Solid Channel</b>                               |        |                                |               |                 |
| W901  | 12 Ga. | --                             | FS12078NSBB   |                 |
| <b>Back-to-Back Channel with 9/16" Holes on 1-7/8" center *</b> |        |                                |               |                 |
| W901H   | 12 Ga. | --                             | FS12078HSBB   |                 |
| <b>Back-to-Back Channel with 9/16" x 1-1/8" Short Slots</b>     |        |                                |               |                 |
| W901EH  | 12 Ga. | --                             | FS121078EHBB  |                 |

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available  
**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum  
**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.



Introduction  
 Channel  
 Channel Nuts & Hardware  
 General Fittings  
 Brackets  
 Beam Clamps  
 Pipe & Conduit Supports  
 Electrical Fittings  
 Spring Steel  
 Concrete Inserts  
 Rooftop Supports  
 Fiberglass System  
 Technical Data

## 12 Gauge Channel Load Data

### Section Properties

| 12 Gauge<br>SPECIFYING<br>Brand & Part No.                         | Wt./Ft.<br>Lbs.<br>(Kg/M) | Area of<br>Section<br>Sq. in.<br>(Sq. cm) | X-X Axis                                     |  |                     | Y-Y Axis                                     |  |                   | DISCONTINUED<br>Brands & Part No. |               |
|--|---------------------------|---|--|--|---------------------|--|--|-------------------|-----------------------------------|---------------|
|  |                           |   | Ix in. <sup>4</sup><br>(Ix cm <sup>4</sup> ) | Sx in. <sup>3</sup><br>(Sx cm <sup>3</sup> ) | rx. in.<br>(rx. cm) | Iy in. <sup>4</sup><br>(Iy cm <sup>4</sup> ) | Sy in. <sup>3</sup><br>(Sy cm <sup>3</sup> ) | ry in.<br>(ry cm) | VERSABAR                          | FLORIDA STRUT |
| <b>1-5/8" x 7/8" (41mm x 22mm) 12 Gauge Channel</b>                |                           |   |  |  |                     |  |  |                   |                                   |               |
| W900   | 1.37 (2.04)               | 0.403 (2.60)                              | 0.038 (1.58)                                 | 0.074 (1.21)                                 | 0.307 (0.78)        | 0.147 (6.12)                                 | 0.181 (2.97)                                 | 0.604 (1.53)      | --                                | FS12078NS     |
| <b>1-5/8" x 1-3/4" (41mm x 44mm) 12 Gauge Back-to-Back Channel</b> |                           |   |  |  |                     |  |  |                   |                                   |               |
| W901   | 2.75 (4.09)               | 0.807 (5.21)                              | 0.183 (7.62)                                 | 0.209 (3.42)                                 | 0.476 (1.21)        | 0.295 (12.28)                                | 0.363 (5.95)                                 | 0.604 (1.53)      | --                                | FS12078NSBB   |

### 1-5/8" x 7/8" (41mm x 22mm) 12 Gauge Channel

#### Allowable Beam Loads

#### Allowable Column Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             | Rate                                |
| 12 (305)    | 1,250 (5.6)           | 0.03 (0.8)             | 1250 (5.6)                           | 1.00                                |
| 24 (610)    | 830 (3.7)             | 0.06 (1.5)             | 830 (3.7)                            | 1.00                                |
| 36 (914)    | 620 (2.8)             | 0.10 (2.5)             | 620 (2.8)                            | 1.00                                |
| 48 (1,219)  | 500 (2.2)             | 0.16 (4.1)             | 400 (1.8)                            | 1.00                                |
| 60 (1,524)  | 420 (1.9)             | 0.23 (5.8)             | 280 (1.2)                            | 0.98                                |
| 72 (1,829)  | 360 (1.6)             | 0.31 (7.9)             | 200 (0.9)                            | 0.97                                |
| 84 (2,134)  | 310 (1.4)             | 0.40 (10.2)            | 160 (0.7)                            | 0.95                                |
| 96 (2,438)  | 250 (1.1)             | 0.63 (16.0)            | 100 (0.4)                            | 0.94                                |
| 108 (2,743) | 210 (0.9)             | 0.91 (23.1)            | 70 (0.3)                             | 0.92                                |
| 120 (3,048) | 180 (0.8)             | 1.24 (31.5)            | 50 (0.2)                             | 0.91                                |

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 2,560 (11.4)        | 8,360 (37.2)                             |
| 24 (610)        | 2,500 (11.1)        | 7,580 (33.7)                             |
| 36 (914)        | 2,440 (10.9)        | 6,510 (29.0)                             |
| 48 (1,219)      | 2,330 (10.4)        | 5,280 (23.5)                             |
| 60 (1,524)      | 2,190 (9.7)         | 4,100 (18.2)                             |
| 72 (1,829)      | 2,020 (9.0)         | 3,050 (13.6)                             |
| 84 (2,134)      | 1,820 (8.1)         | 2,340 (10.4)                             |
| 96 (2,438)      | 1,420 (6.3)         | 1,500 (6.7)                              |
| 108 (2,743)     | 1,110 (4.9)         | **                                       |
| 120 (3,048)     | **                  | **                                       |

### 1-5/8" x 1-3/4" (41mm x 44mm) 12 Gauge Back-to-Back Channel

#### Allowable Beam Loads

#### Allowable Column Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             | Rate                                |
| 12 (305)    | 1,855 (8.3) *         | 0.01 (0.2)             | 1,855 (8.3) *                        | 1.00                                |
| 24 (610)    | 1,750 (7.8)           | 0.06 (1.5)             | 1,750 (7.8)                          | 1.00                                |
| 36 (914)    | 1,170 (5.2)           | 0.13 (3.3)             | 1,170 (5.2)                          | 1.00                                |
| 48 (1,219)  | 880 (3.9)             | 0.23 (6.0)             | 750 (3.3)                            | 1.00                                |
| 60 (1,524)  | 700 (3.1)             | 0.37 (9.3)             | 480 (2.1)                            | 0.99                                |
| 72 (1,829)  | 580 (2.6)             | 0.52 (13.3)            | 330 (1.5)                            | 0.97                                |
| 84 (2,134)  | 500 (2.2)             | 0.72 (18.2)            | 240 (1.1)                            | 0.94                                |
| 96 (2,438)  | 440 (2.0)             | 0.94 (23.9)            | 190 (0.8)                            | 0.92                                |
| 108 (2,743) | 390 (1.7)             | 1.19 (30.1)            | 150 (0.7)                            | 0.89                                |
| 120 (3,048) | 350 (1.6)             | 1.46 (37.1)            | 120 (0.5)                            | 0.87                                |

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 4,510 (20.1)        | 17,780 (79.1)                            |
| 24 (610)        | 4,470 (19.9)        | 17,040 (75.8)                            |
| 36 (914)        | 4,430 (19.7)        | 16,110 (71.7)                            |
| 48 (1,219)      | 4,380 (19.5)        | 14,760 (65.7)                            |
| 60 (1,524)      | 4,290 (19.1)        | 13,260 (59.0)                            |
| 72 (1,829)      | 4,190 (18.6)        | 11,680 (52.0)                            |
| 84 (2,134)      | 4,070 (18.1)        | 10,090 (44.9)                            |
| 96 (2,438)      | 3,770 (16.8)        | 7,090 (31.5)                             |
| 108 (2,743)     | 3,370 (15.0)        | 4,920 (21.9)                             |
| 120 (3,048)     | 2,880 (12.8)        | 3,620 (16.1)                             |

\* Load limited by spot weld shear

\*\* KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

#### Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

|                          |      |
|--------------------------|------|
| Channel with Short Slots | 0.90 |
| Channel with Long Slots  | 0.90 |
| Channel with Holes       | 0.95 |
| Knock-Out Channel        | 0.95 |

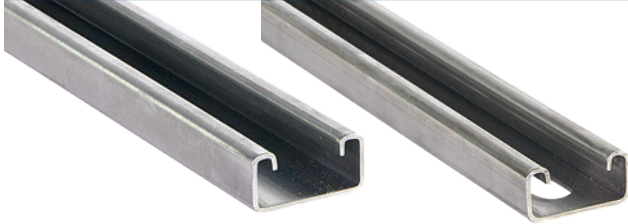


# Pre-Cut Channel - 12 Gauge

1-5/8" x 7/8" (41mm x 22mm)



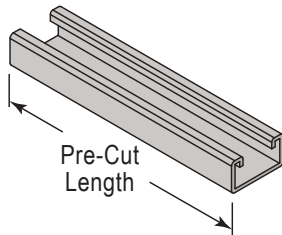
1-5/8" x 7/8" (41mm x 22mm)  
Solid or Short Slots Channel  
Pre-Cut Lengths



## Solid Channel

## Channel With Short Slots

9/16" x 1-1/8" (14mm x 29mm) Slots  
are punched on 2" (51mm) centers.



| Pre-Cut Length | Part Number Order Chart for Different Options |                 |
|----------------|---|-----------------|
|                | SPECIFYING Brand & Part No.                   |                 |
|                | <b>WESANCO</b>                                |                 |
| 6" (15.2cm)    | W900 XXXXX XXXX                               |                 |
| 12" (0.31m)    | Style:  | Length:         |
| 18" (0.45m)    |   | 06IN 48IN       |
| 24" (0.61m)    | W900 - Solid                                  | 12IN 54IN       |
| 30" (0.76m)    | W900EH - Short Slots                          | 18IN 60IN       |
| 36" (0.91m)    | Material/Finish:                              | 24IN 72IN       |
| 42" (1.07m)    |   | 30IN 80IN       |
| 48" (1.22m)    |   | 36IN 96IN       |
| 54" (1.37m)    |   | 42IN            |
| 60" (1.52m)    | EXAMPLE: W900S648IN                           |                 |
| 72" (1.83m)    | 1-5/8" x 7/8"                                 | 48IN - 48" Long |
| 80" (2.03m)    |   |                 |
| 96" (2.44m)    | S6 - 316 Stainless Steel                      |                 |
| 10' (3.05m)    |   |                 |
| 20' (6.10m)    |   |                 |

Note: Minimum order quantity is 100 pieces for any size under 10'.

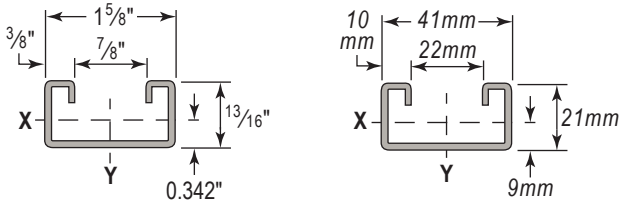
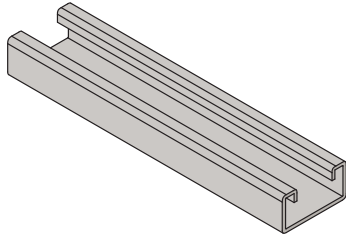
Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available

**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum

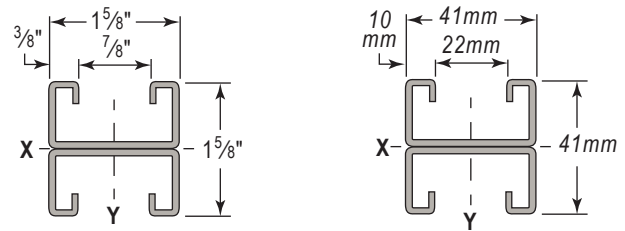
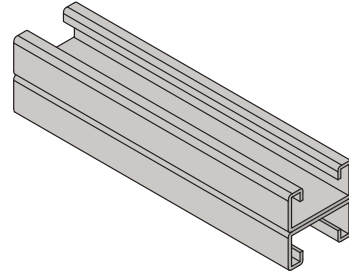
**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.



## 1-5/8" x 13/16" (41mm x 21mm)



## 1-5/8" x 1-5/8" (41mm x 41mm)



| SPECIFYING   |        |                                |               | 1-5/8" x 13/16" |
|--|--------|--------------------------------|---------------|-----------------|
| Brand & Part No.   | Gauge  | DISCONTINUED Brands & Part No. |               |                 |
|  |        | VERSABAR                       | FLORIDA STRUT |                 |
| <b>WESANCO</b>   |        |                                |               |                 |
| <b>Solid Channel</b>   |        |                                |               |                 |
| W510   | 12 Ga. | VA13                           | FS121316NS    |                 |
| W500   | 14 Ga. | VA4                            | FS141316NS    |                 |
| W400   | 16 Ga. | VA5                            | FS161316NS    |                 |
| <b>Channel with Holes on 1-7/8" center *</b>                 |        |                                |               |                 |
| W510H  | 12 Ga. | VA13P187                       | FS121316HS    |                 |
| W500H  | 14 Ga. | VA4P187                        | FS141316HS    |                 |
| W400H  | 16 Ga. | VA5P187                        | FS161316HS    |                 |
| <b>Channel with Knock-Outs on 6" center *</b>                |        |                                |               |                 |
| W510KO   | 12 Ga. | VA13KO6                        | --            |                 |
| W500KO   | 14 Ga. | VA4KO6                         | --            |                 |
| W400KO   | 16 Ga. | VA5KO6                         | --            |                 |
| <b>Channel with 9/16" x 1-1/8" Short Slots on 2" center</b>  |        |                                |               |                 |
| W510EH   | 12 Ga. | VA13PLH                        | FS121316EH    |                 |
| W500EH   | 14 Ga. | VA4PLH                         | FS141316EH    |                 |
| W400EH   | 16 Ga. | VA5PLH                         | FS161316EH    |                 |
| <b>Channel with 11/16" x 1-1/8" Short Slots on 2" center</b> |        |                                |               |                 |
| W510EH58   | 12 Ga. | VA13PLW                        | --            |                 |
| W500EH58   | 14 Ga. | VA4PLW                         | --            |                 |
| W400EH58   | 16 Ga. | VA5PLW                         | --            |                 |
| <b>Channel with 13/32" x 3" Long Slots on 4" center</b>      |        |                                |               |                 |
| W510SL   | 12 Ga. | VA13P3S                        | FS121316SL    |                 |
| W500SL   | 14 Ga. | VA4P3S                         | FS141316SL    |                 |
| W400SL   | 16 Ga. | VA5P3S                         | FS161316SL    |                 |

\* Various hole patterns available, contact representative for more information

| SPECIFYING   |        |                                |               | 1-5/8" x 1-5/8" |
|--|--------|--------------------------------|---------------|-----------------|
| Brand & Part No.   | Gauge  | DISCONTINUED Brands & Part No. |               |                 |
|  |        | VERSABAR                       | FLORIDA STRUT |                 |
| <b>WESANCO</b>   |        |                                |               |                 |
| <b>Back-to-Back Solid Channel</b>                            |        |                                |               |                 |
| W511   | 12 Ga. | VA13201                        | FS121316NSBB  |                 |
| W501   | 14 Ga. | VA4201                         | FS141316NSBB  |                 |
| W401   | 16 Ga. | VA5201                         | FS161316NSBB  |                 |
| <b>Back-to-Back Channel with 9/16" x 1-1/8" Short Slots</b>  |        |                                |               |                 |
| W511EH   | 12 Ga. | VA13201PLH                     | FS121316EHBB  |                 |
| W501EH   | 14 Ga. | VA4201PLH                      | FS141316EHBB  |                 |
| W401EH   | 16 Ga. | VA5201PLH                      | FS161316EHBB  |                 |
| <b>Back-to-Back Channel with 11/16" x 1-1/8" Short Slots</b> |        |                                |               |                 |
| W511EH58   | 12 Ga. | VA13201PLW                     | --            |                 |
| W501EH58   | 14 Ga. | VA4201PLW                      | --            |                 |
| W401EH58   | 16 Ga. | VA5201PLW                      | --            |                 |

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available

**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum

**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.





# 1-5/8" x 13/16" (41mm x 21mm) Channel



## 12 Gauge Channel Load Data

### Section Properties

| 12 Gauge<br>SPECIFYING<br>Brand & Part No.                         | Wt./Ft.<br>Lbs.<br>(Kg/M) | Area of<br>Section<br>Sq. in.<br>(Sq. cm) | X-X Axis                                     |  |                     | Y-Y Axis                                     |  |                   | DISCONTINUED<br>Brands & Part No. |               |
|--|---------------------------|---|--|--|---------------------|--|--|-------------------|-----------------------------------|---------------|
|  |                           |   | Ix in. <sup>4</sup><br>(Ix cm <sup>4</sup> ) | Sx in. <sup>3</sup><br>(Sx cm <sup>3</sup> ) | rx. in.<br>(rx. cm) | Iy in. <sup>4</sup><br>(Iy cm <sup>4</sup> ) | Sy in. <sup>3</sup><br>(Sy cm <sup>3</sup> ) | ry in.<br>(ry cm) | VERSABAR                          | FLORIDA STRUT |
| <b>1 5/8" x 13/16" (41mm x 21mm) 12 Gauge Channel</b>              |                           |   |  |  |                     |  |  |                   |                                   |               |
| <b>W510</b>  | 1.27 (1.89)               | 0.374 (2.41)                              | 0.0308 (1.28)                                | 0.0647 (1.06)                                | 0.284 (0.72)        | 0.1375 (5.72)                                | 0.1692 (2.77)                                | 0.599 (1.52)      | VA13                              | FS121316NS    |
| <b>1 5/8" x 1 5/8" (41mm x 41mm) 12 Gauge Back-to-Back Channel</b> |                           |   |  |  |                     |  |  |                   |                                   |               |
| <b>W511</b>  | 2.54 (3.78)               | 0.747 (4.82)                              | 0.1481 (6.16)                                | 0.1823 (2.99)                                | 0.440 (1.12)        | 0.275 (11.44)                                | 0.3385 (5.55)                                | 0.599 (1.52)      | VA13201                           | FS121316NSBB  |

### 1 5/8" x 13/16" (41mm x 21mm) 12 Gauge Channel

#### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             |                                     |
| 24 (610)    | 532 (2.4)             | 0.11 (2.8)             | 502 (2.2)                            | --                                  |
| 36 (914)    | 358 (1.6)             | 0.24 (6.1)             | 223 (1.0)                            | --                                  |
| 48 (1,219)  | 265 (1.2)             | 0.43 (10.9)            | 122 (0.5)                            | --                                  |
| 60 (1,524)  | 212 (0.9)             | 0.67 (17.0)            | 78 (0.3)                             | --                                  |
| 72 (1,829)  | 175 (0.8)             | 0.96 (24.4)            | 54 (0.2)                             | --                                  |
| 84 (2,134)  | 152 (0.7)             | 1.31 (33.3)            | 39 (0.2)                             | --                                  |
| 96 (2,438)  | 132 (0.6)             | 1.71 (43.4)            | 30 (0.1)                             | --                                  |
| 108 (2,743) | 118 (0.5)             | 2.16 (54.9)            | 22 (0.1)                             | --                                  |
| 120 (3,048) | 102 (0.5)             | 2.67 (67.8)            | 18 (0.1)                             | --                                  |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 24 (610)        | 2,750 (12.2)        | 6,515 (29.0)                             |
| 36 (914)        | 2,150 (9.6)         | 3,600 (16.0)                             |
| 48 (1,219)      | 1,558 (6.9)         | 2,030 (9.0)                              |
| 60 (1,524)      | 1,158 (5.2)         | **                                       |
| 72 (1,829)      | 888 (4.0)           | **                                       |
| 84 (2,134)      | 700 (3.1)           | **                                       |
| 96 (2,438)      | 565 (2.5)           | **                                       |
| 108 (2,743)     | 460 (2.0)           | **                                       |
| 120 (3,048)     | 390 (1.7)           | **                                       |

### 1 5/8" x 1 5/8" (41mm x 41mm) 12 Gauge Back-to-Back Channel

#### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             |                                     |
| 24 (610)    | 1,268 (5.6)           | 0.05 (1.3)             | 1,268 (5.6)                          | --                                  |
| 36 (914)    | 1,011 (4.5)           | 0.14 (3.6)             | 1,011 (4.5)                          | --                                  |
| 48 (1,219)  | 755 (3.4)             | 0.25 (6.4)             | 602 (2.7)                            | --                                  |
| 60 (1,524)  | 302 (1.3)             | 0.39 (9.9)             | 382 (1.7)                            | --                                  |
| 72 (1,829)  | 502 (2.2)             | 0.56 (14.2)            | 268 (1.2)                            | --                                  |
| 84 (2,134)  | 430 (1.9)             | 0.77 (19.6)            | 195 (0.9)                            | --                                  |
| 96 (2,438)  | 377 (1.7)             | 1.00 (25.4)            | 150 (0.7)                            | --                                  |
| 108 (2,743) | 335 (1.5)             | 1.27 (32.3)            | 118 (0.5)                            | --                                  |
| 120 (3,048) | 302 (1.3)             | 1.56 (39.6)            | 92 (0.4)                             | --                                  |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 24 (610)        | 4,950 (22.0)        | 16,410 (73.0)                            |
| 36 (914)        | 4,490 (20.0)        | 13,370 (59.5)                            |
| 48 (1,219)      | 3,960 (17.6)        | 6,775 (30.1)                             |
| 60 (1,524)      | 3,380 (15.0)        | 4,330 (19.3)                             |
| 72 (1,829)      | 2,795 (12.4)        | 3,010 (13.4)                             |
| 84 (2,134)      | 2,330 (10.4)        | **                                       |
| 96 (2,438)      | 1,970 (8.8)         | **                                       |
| 108 (2,743)     | 1,680 (7.5)         | **                                       |
| 120 (3,048)     | 1,450 (6.4)         | **                                       |

\* Load limited by spot weld shear

\*\* KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

#### Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

|                          |      |
|--------------------------|------|
| Channel with Short Slots | 0.90 |
| Channel with Long Slots  | 0.90 |
| Channel with Holes       | 0.95 |
| Knock-Out Channel        | 0.95 |



## 14 Gauge Channel Load Data

### Section Properties

| 14 Gauge<br>SPECIFYING<br>Brand & Part No.<br>WESANCO              | Wt./Ft.<br>Lbs.<br>(Kg/M) | Area of<br>Section<br>Sq. in.<br>(Sq. cm) | X-X Axis  |  |                     | Y-Y Axis                                     |  |                   | DISCONTINUED<br>Brands & Part No. |               |
|--|---------------------------|---|---|--|---------------------|--|--|-------------------|-----------------------------------|---------------|
|  |                           |   | Ix in. <sup>4</sup><br>(Ix cm <sup>4</sup> )          | Sx in. <sup>3</sup><br>(Sx cm <sup>3</sup> ) | rx. in.<br>(rx. cm) | Iy in. <sup>4</sup><br>(Iy cm <sup>4</sup> ) | Sy in. <sup>3</sup><br>(Sy cm <sup>3</sup> ) | ry in.<br>(ry cm) | VERSABAR                          | FLORIDA STRUT |
|  |                           |   | <b>1 5/8" x 13/16" (41mm x 21mm) 14 Gauge Channel</b> |  |                     |  |  |                   |                                   |               |
| W500   | 1.00 (1.49)               | 0.295 (1.90)                              | 0.026 (1.08)  | 0.056 (0.92)                                 | 0.297 (0.75)        | 0.109 (4.54)                                 | 0.135 (2.21)                                 | 0.609 (1.55)      | VA4                               | FS141316NS    |
| <b>1 5/8" x 1 5/8" (41mm x 41mm) 14 Gauge Back-to-Back Channel</b> |                           |   |   |  |                     |  |  |                   |                                   |               |
| W501   | 2.01 (2.99)               | 0.59 (3.81)                               | 0.122 (5.08)  | 0.15 (2.46)                                  | 0.454 (1.15)        | 0.219 (9.12)                                 | 0.269 (4.41)                                 | 0.609 (1.55)      | VA4201                            | FS141316NSBB  |

### 1 5/8" x 13/16" (41mm x 21mm) 14 Gauge Channel

#### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             | Rate                                |
| 12 (305)    | 930 (4.1)             | 0.03 (0.8)             | 930 (4.1)                            | 1.00                                |
| 24 (610)    | 620 (2.8)             | 0.06 (1.5)             | 620 (2.8)                            | 1.00                                |
| 36 (914)    | 470 (2.1)             | 0.11 (2.8)             | 430 (1.9)                            | 0.98                                |
| 48 (1,219)  | 370 (1.6)             | 0.17 (4.3)             | 270 (1.2)                            | 0.94                                |
| 60 (1,524)  | 310 (1.4)             | 0.24 (6.1)             | 190 (0.8)                            | 0.91                                |
| 72 (1,829)  | 270 (1.2)             | 0.34 (8.6)             | 140 (0.6)                            | 0.88                                |
| 84 (2,134)  | 230 (1.0)             | 0.43 (10.9)            | 110 (0.5)                            | 0.86                                |
| 96 (2,438)  | 190 (0.8)             | 0.69 (17.5)            | 70 (0.3)                             | 0.83                                |
| 108 (2,743) | 160 (0.7)             | 1.01 (25.7)            | 50 (0.2)                             | 0.81                                |
| 120 (3,048) | 130 (0.6)             | 1.30 (33.0)            | 40 (0.2)                             | 0.79                                |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 2,010 (8.9)         | 6,110 (27.2)                             |
| 24 (610)        | 1,950 (8.7)         | 5,420 (24.1)                             |
| 36 (914)        | 1,890 (8.4)         | 4,650 (20.7)                             |
| 48 (1,219)      | 1,800 (8.0)         | 3,720 (16.5)                             |
| 60 (1,524)      | 1,680 (7.5)         | 2,840 (12.6)                             |
| 72 (1,829)      | 1,510 (6.7)         | 2,100 (9.3)                              |
| 84 (2,134)      | 1,330 (5.9)         | 1,610 (7.2)                              |
| 96 (2,438)      | 1,020 (4.5)         | **                                       |
| 108 (2,743)     | 780 (3.5)           | **                                       |
| 120 (3,048)     | **                  | **                                       |

### 1 5/8" x 1 5/8" (41mm x 41mm) 14 Gauge Back-to-Back Channel

#### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             | Rate                                |
| 12 (305)    | 1,100 (4.9) *         | 0.01 (0.2)             | 1,100 (4.9) *                        | 1.00                                |
| 24 (610)    | 1,100 (4.9) *         | 0.06 (1.4)             | 1,100 (4.9) *                        | 1.00                                |
| 36 (914)    | 840 (3.7)             | 0.14 (3.6)             | 840 (3.7)                            | 1.00                                |
| 48 (1,219)  | 630 (2.8)             | 0.25 (6.4)             | 500 (2.2)                            | 0.99                                |
| 60 (1,524)  | 500 (2.2)             | 0.39 (10.0)            | 320 (1.4)                            | 0.95                                |
| 72 (1,829)  | 420 (1.9)             | 0.57 (14.5)            | 220 (1.0)                            | 0.92                                |
| 84 (2,134)  | 360 (1.6)             | 0.78 (19.7)            | 160 (0.7)                            | 0.88                                |
| 96 (2,438)  | 310 (1.4)             | 1.00 (25.4)            | 120 (0.5)                            | 0.84                                |
| 108 (2,743) | 280 (1.2)             | 1.28 (32.5)            | 100 (0.4)                            | 0.80                                |
| 120 (3,048) | 250 (1.1)             | 1.57 (39.9)            | 80 (0.4)                             | 0.77                                |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 3,430 (15.3)        | 13,000 (57.8)                            |
| 24 (610)        | 3,390 (15.1)        | 12,300 (54.7)                            |
| 36 (914)        | 3,350 (14.9)        | 11,590 (51.6)                            |
| 48 (1,219)      | 3,310 (14.7)        | 10,520 (46.8)                            |
| 60 (1,524)      | 3,230 (14.4)        | 9,340 (41.5)                             |
| 72 (1,829)      | 3,150 (14.0)        | 8,110 (36.1)                             |
| 84 (2,134)      | 3,040 (13.5)        | 6,900 (30.7)                             |
| 96 (2,438)      | 2,760 (12.3)        | 4,680 (20.8)                             |
| 108 (2,743)     | 2,370 (10.5)        | 3,250 (14.5)                             |
| 120 (3,048)     | 2,000 (8.9)         | 2,390 (10.6)                             |

\* Load limited by spot weld shear

\*\* KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

#### Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

|                          |      |
|--------------------------|------|
| Channel with Short Slots | 0.90 |
| Channel with Long Slots  | 0.90 |
| Channel with Holes       | 0.95 |
| Knock-Out Channel        | 0.95 |



# 1-5/8" x 13/16" (41mm x 21mm) Channel



## 16 Gauge Channel Load Data

### Section Properties

| 16 Gauge<br>SPECIFYING<br>Brand & Part No.                         | Wt./Ft.<br>Lbs.<br>(Kg/M) | Area of<br>Section<br>Sq. in.<br>(Sq. cm) | X-X Axis                                     |  |                    | Y-Y Axis                                     |  |                   | DISCONTINUED<br>Brands & Part No. |               |
|--|---------------------------|---|--|--|--------------------|--|--|-------------------|-----------------------------------|---------------|
|  |                           |   | lx in. <sup>4</sup><br>(lx cm <sup>4</sup> ) | Sx in. <sup>3</sup><br>(Sx cm <sup>3</sup> ) | rx in.<br>(rx. cm) | ly in. <sup>4</sup><br>(ly cm <sup>4</sup> ) | Sy in. <sup>3</sup><br>(Sy cm <sup>3</sup> ) | ry in.<br>(ry cm) | VERSABAR                          | FLORIDA STRUT |
| <b>1-5/8" x 13/16" (41mm x 21mm) 16 Gauge Channel</b>              |                           |   |  |  |                    |  |  |                   |                                   |               |
| W400   | 0.83 (1.24)               | 0.244 (1.57)                              | 0.023 (0.96)                                 | 0.05 (0.82)                                  | 0.31 (0.79)        | 0.092 (3.83)                                 | 0.113 (1.85)                                 | 0.614 (1.56)      | VA5                               | FS161316NS    |
| <b>1-5/8" x 1-5/8" (41mm x 41mm) 16 Gauge Back-to-Back Channel</b> |                           |   |  |  |                    |  |  |                   |                                   |               |
| W401   | 1.66 (2.47)               | 0.487 (3.14)                              | 0.105 (4.37)                                 | 0.129 (2.11)                                 | 0.463 (1.18)       | 0.184 (7.66)                                 | 0.226 (3.70)                                 | 0.614 (1.56)      | VA5201                            | FS161316NSBB  |

### 1-5/8" x 13/16" (41mm x 21mm) 16 Gauge Channel

#### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             |                                     |
| 12 (305)    | 840 (3.7)             | 0.03 (0.8)             | 840 (3.7)                            | 1.00                                |
| 24 (610)    | 560 (2.5)             | 0.06 (1.5)             | 560 (2.5)                            | 1.00                                |
| 36 (914)    | 420 (1.9)             | 0.11 (2.8)             | 380 (1.7)                            | 0.94                                |
| 48 (1,219)  | 330 (1.5)             | 0.17 (4.3)             | 250 (1.1)                            | 0.88                                |
| 60 (1,524)  | 280 (1.2)             | 0.25 (6.4)             | 170 (0.8)                            | 0.82                                |
| 72 (1,829)  | 240 (1.1)             | 0.34 (8.6)             | 130 (0.6)                            | 0.78                                |
| 84 (2,134)  | 210 (0.9)             | 0.44 (11.2)            | 100 (0.4)                            | 0.74                                |
| 96 (2,438)  | 170 (0.8)             | 0.69 (17.5)            | 60 (0.3)                             | 0.71                                |
| 108 (2,743) | 140 (0.6)             | 0.99 (25.1)            | 40 (0.2)                             | 0.68                                |
| 120 (3,048) | 120 (0.5)             | 1.34 (34.0)            | 30 (0.1)                             | 0.65                                |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 1,780 (7.9)         | 5,040 (22.4)                             |
| 24 (610)        | 1,720 (7.7)         | 4,420 (19.7)                             |
| 36 (914)        | 1,650 (7.3)         | 3,780 (16.8)                             |
| 48 (1,219)      | 1,570 (7.0)         | 3,210 (14.3)                             |
| 60 (1,524)      | 1,470 (6.5)         | 2,520 (11.2)                             |
| 72 (1,829)      | 1,340 (6.0)         | 1,880 (8.4)                              |
| 84 (2,134)      | 1,180 (5.2)         | 1,440 (6.4)                              |
| 96 (2,438)      | 890 (4.0)           | 920 (4.1)                                |
| 108 (2,743)     | 690 (3.1)           | **                                       |
| 120 (3,048)     | **                  | **                                       |

### 1-5/8" x 1-5/8" (41mm x 41mm) 16 Gauge Back-to-Back Channel

#### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             |                                     |
| 12 (305)    | 820 (3.6) *           | 0.01 (0.2)             | 820 (3.6) *                          | 1.00                                |
| 24 (610)    | 820 (3.6) *           | 0.05 (1.2)             | 820 (3.6) *                          | 1.00                                |
| 36 (914)    | 720 (3.2)             | 0.14 (3.6)             | 720 (3.2)                            | 1.00                                |
| 48 (1,219)  | 540 (2.4)             | 0.25 (6.4)             | 430 (1.9)                            | 0.98                                |
| 60 (1,524)  | 430 (1.9)             | 0.39 (10.0)            | 270 (1.2)                            | 0.93                                |
| 72 (1,829)  | 360 (1.6)             | 0.57 (14.4)            | 190 (0.8)                            | 0.88                                |
| 84 (2,134)  | 310 (1.4)             | 0.78 (19.7)            | 140 (0.6)                            | 0.83                                |
| 96 (2,438)  | 270 (1.2)             | 1.01 (25.6)            | 110 (0.5)                            | 0.78                                |
| 108 (2,743) | 240 (1.1)             | 1.28 (32.4)            | 80 (0.4)                             | 0.74                                |
| 120 (3,048) | 220 (1.0)             | 1.60 (40.7)            | 70 (0.3)                             | 0.69                                |

#### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 2,920 (13.0)        | 10,750 (47.8)                            |
| 24 (610)        | 2,890 (12.9)        | 10,140 (45.1)                            |
| 36 (914)        | 2,850 (12.7)        | 9,470 (42.1)                             |
| 48 (1,219)      | 2,800 (12.5)        | 8,810 (39.2)                             |
| 60 (1,524)      | 2,760 (12.3)        | 7,870 (35.0)                             |
| 72 (1,829)      | 2,690 (12.0)        | 6,900 (30.7)                             |
| 84 (2,134)      | 2,600 (11.6)        | 5,920 (26.3)                             |
| 96 (2,438)      | 2,350 (10.5)        | 4,090 (18.2)                             |
| 108 (2,743)     | 2,030 (9.0)         | 2,840 (12.6)                             |
| 120 (3,048)     | 1,710 (7.6)         | 2,090 (9.3)                              |

\* Load limited by spot weld shear

\*\* KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

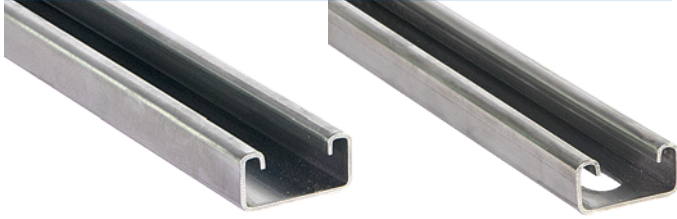
#### Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

- Channel with Short Slots . . . . . 0.90
- Channel with Long Slots . . . . . 0.90
- Channel with Holes . . . . . 0.95
- Knock-Out Channel. . . . . 0.95



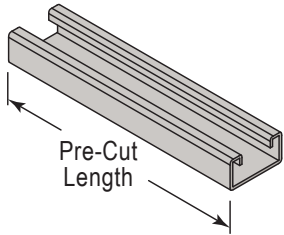
**1-5/8" x 13/16" (41mm x 21mm)  
Solid or Short Slots Channel  
Pre-Cut Lengths**



### Solid Channel

### Channel With Short Slots

9/16" x 1-1/8" (14mm x 29mm) Slots  
are punched on 2" (51mm) centers.



| Pre-Cut Length | Part Number Order Chart for Different Options   |                      |
|----------------|---|----------------------|
|                | SPECIFYING Brand & Part No.   |                      |
|                | <b>WESANCO</b>  |                      |
| 6" (15.2cm)    | W500 XXXXX XXXX   |                      |
| 12" (0.31m)    | Style:<br>W500 - Solid<br>W500EH - Short Slots  | Length:<br>06IN 48IN |
| 18" (0.45m)    |   | 12IN 54IN            |
| 24" (0.61m)    |   | 18IN 60IN            |
| 30" (0.76m)    |   | 24IN 72IN            |
| 36" (0.91m)    | Material/Finish:<br>PG - Pre-Galvanized<br>S4 - Stainless Steel Type 304<br>S6 - Stainless Steel Type 316 | 30IN 80IN            |
| 42" (1.07m)    |   | 36IN 96IN            |
| 48" (1.22m)    |   | 42IN                 |
| 54" (1.37m)    |   |                      |
| 60" (1.52m)    | EXAMPLE: W500S648IN   |                      |
| 72" (1.83m)    | 1-5/8" x 13/16"<br>W500 - Solid Channel   | 48IN - 48" Long      |
| 80" (2.03m)    |   |                      |
| 96" (2.44m)    | S6 - 316 Stainless Steel  |                      |
| 10' (3.05m)    |   |                      |
| 20' (6.10m)    |   |                      |

Note: Minimum order quantity is 100 pieces for any size under 10'.

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available  
**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum  
**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.

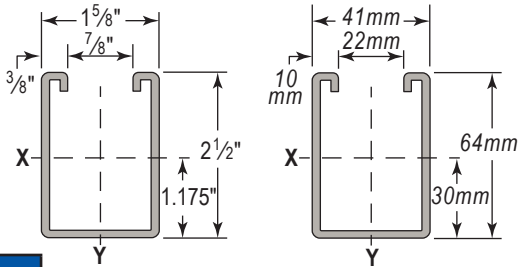
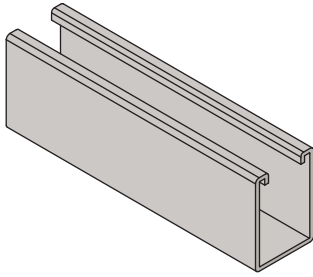


# 1-5/8" x 2-1/2" (41mm x 64mm) Channel



Standard Finish: Pre-Galvanized (PG)

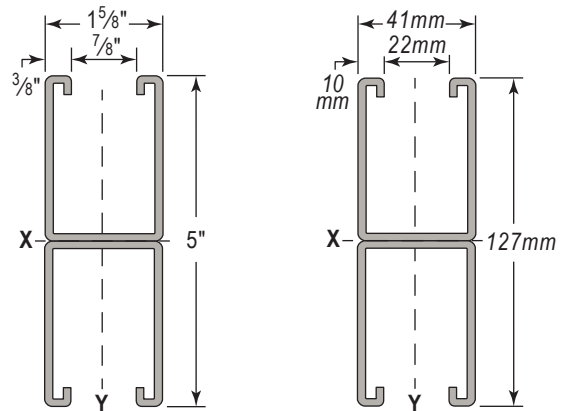
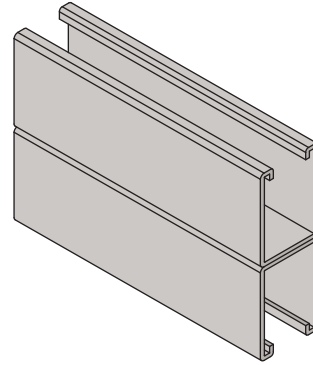
## 1-5/8" x 2-1/2" (41mm x 64mm)



| SPECIFYING Brand & Part No.                                  | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 2-1/2" |
|--|--------|--------------------------------|---------------|-----------------|
|  |        | VERSABAR                       | FLORIDA STRUT |                 |
|  |        |                                |               |                 |
| <b>Solid Channel</b>   |        |                                |               |                 |
| W170   | 12 Ga. | VA3                            | --            |                 |
| <b>Channel with 17/32" Holes on 1-1/2" center</b>            |        |                                |               |                 |
| W170H15  | 12 Ga. | VA3P15                         | --            |                 |
| <b>Channel with 17/32" Holes on 1-7/8" center</b>            |        |                                |               |                 |
| W170H  | 12 Ga. | VA3P187                        | --            |                 |
| <b>Channel with Knock-Outs on 6" center *</b>                |        |                                |               |                 |
| W170KO   | 12 Ga. | VA3KO6                         | --            |                 |
| <b>Channel with 9/16" x 1-1/8" Short Slots on 2" center</b>  |        |                                |               |                 |
| W170EH   | 12 Ga. | VA3PLH                         | --            |                 |
| <b>Channel with 11/16" x 1-1/8" Short Slots on 2" center</b> |        |                                |               |                 |
| W170EH58   | 12 Ga. | VA3PLW                         | --            |                 |
| <b>Channel with 13/32" x 3" Long Slots on 4" center</b>      |        |                                |               |                 |
| W170SL   | 12 Ga. | VA3P3S                         | --            |                 |

\* Various hole patterns available, contact representative for more information

## 1-5/8" x 5" (41mm x 127mm)



| SPECIFYING Brand & Part No.                                 | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 5" Solid |
|---|--------|--------------------------------|---------------|-------------------|
|   |        | VERSABAR                       | FLORIDA STRUT |                   |
|   |        |                                |               |                   |
| <b>Back-to-Back Solid Channel</b>                           |        |                                |               |                   |
| W171  | 12 Ga. | VA3201                         | --            |                   |
| <b>Channel with 9/16" x 1-1/8" Short Slots on 2" center</b> |        |                                |               |                   |
| W171EH  | 12 Ga. | VA3201PLH                      | --            |                   |

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available

**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum

**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.





## Section Properties

| 12 Gauge<br>SPECIFYING<br>Brand & Part No.<br>WESANCO           | Wt./Ft.<br>Lbs.<br>(Kg/M) | Area of<br>Section<br>Sq. in.<br>(Sq. cm) | X-X Axis  |  |                    | Y-Y Axis                                     |  |                   | DISCONTINUED<br>Brands & Part No. |               |
|---|---------------------------|---|---|--|--------------------|--|--|-------------------|-----------------------------------|---------------|
|   |                           |   | lx in. <sup>4</sup><br>(lx cm <sup>4</sup> )          | Sx in. <sup>3</sup><br>(Sx cm <sup>3</sup> ) | rx in.<br>(rx. cm) | ly in. <sup>4</sup><br>(ly cm <sup>4</sup> ) | Sy in. <sup>3</sup><br>(Sy cm <sup>3</sup> ) | ry in.<br>(ry cm) | VERSABAR                          | FLORIDA STRUT |
|   |                           |   | <b>1 5/8" x 2 1/2" (41mm x 64mm) 12 Gauge Channel</b> |  |                    |  |  |                   |                                   |               |
| W170  | 2.47 (3.67)               | 0.727 (4.69)                              | 0.520 (21.65)   | 0.393 (6.43)                                 | 0.852 (2.16)       | 0.331 (13.76)                                | 0.407 (6.66)                                 | 0.679 (1.72)      | VA3                               | --            |
| <b>1 5/8" x 5" (41mm x 127mm) 12 Gauge Back-to-Back Channel</b> |                           |   |   |  |                    |  |  |                   |                                   |               |
| W171  | 4.94 (7.35)               | 1.453 (9.37)                              | 2.813 (117.1)   | 1.154 (18.91)                                | 1.402 (3.56)       | 0.661 (27.52)                                | 0.814 (13.33)                                | 0.679 (1.72)      | VA3201                            | --            |

## 1 5/8" x 2 1/2" (41mm x 64mm) 12 Gauge Channel

### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction |
|-------------|-----------------------|------------------------|--------------------------------------|--------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             | Rate                           |
| 12 (305)    | 6,700 (29.8)          | 0.01 (0.3)             | 6,700 (29.8)                         | 1.00                           |
| 24 (610)    | 3,350 (14.9)          | 0.04 (1.0)             | 3,350 (14.9)                         | 0.99                           |
| 36 (914)    | 2,230 (9.9)           | 0.09 (2.3)             | 2,230 (9.9)                          | 0.88                           |
| 48 (1,219)  | 1,670 (7.4)           | 0.15 (3.8)             | 1,670 (7.4)                          | 0.77                           |
| 60 (1,524)  | 1,340 (6.0)           | 0.24 (6.1)             | 1,340 (6.0)                          | 0.66                           |
| 72 (1,829)  | 1,120 (5.0)           | 0.35 (8.9)             | 960 (4.3)                            | 0.57                           |
| 84 (2,134)  | 960 (4.3)             | 0.47 (11.9)            | 710 (3.2)                            | 0.50                           |
| 96 (2,438)  | 840 (3.7)             | 0.62 (15.7)            | 540 (2.4)                            | 0.45                           |
| 108 (2,743) | 740 (3.3)             | 0.78 (19.8)            | 430 (1.9)                            | 0.42                           |
| 120 (3,048) | 670 (3.0)             | 0.96 (24.4)            | 350 (1.6)                            | 0.39                           |

### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 5,090 (22.6)        | 15,090 (67.1)                            |
| 24 (610)        | 4,720 (21.0)        | 10,890 (48.4)                            |
| 36 (914)        | 4,020 (17.9)        | 7,040 (31.3)                             |
| 48 (1,219)      | 3,210 (14.3)        | 4,630 (20.6)                             |
| 60 (1,524)      | 2,570 (11.4)        | 3,460 (15.4)                             |
| 72 (1,829)      | 2,130 (9.5)         | 2,780 (12.4)                             |
| 84 (2,134)      | 1,810 (8.1)         | 2,340 (10.4)                             |
| 96 (2,438)      | 1,580 (7.0)         | 2,020 (9.0)                              |
| 108 (2,743)     | 1,400 (6.2)         | 1,780 (7.9)                              |
| 120 (3,048)     | 1,270 (5.6)         | 1,580 (7.0)                              |

## 1 5/8" x 5" (41mm x 127mm) 12 Gauge Back-to-Back Channel

### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction |
|-------------|-----------------------|------------------------|--------------------------------------|--------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             | Rate                           |
| 12 (305)    | 5,200 (23.1) *        | 0.00                   | 5,200 (23.1) *                       | 1.00                           |
| 24 (610)    | 5,200 (23.1) *        | 0.01 (0.25)            | 5,200 (23.1) *                       | 1.00                           |
| 36 (914)    | 5,200 (23.1) *        | 0.04 (1.01)            | 5,200 (23.1) *                       | 1.00                           |
| 48 (1,219)  | 4,930 (21.9)          | 0.08 (2.03)            | 4,930 (21.9)                         | 0.98                           |
| 60 (1,524)  | 3,940 (17.5)          | 0.13 (3.30)            | 3,940 (17.5)                         | 0.92                           |
| 72 (1,829)  | 3,290 (14.6)          | 0.19 (4.83)            | 3,290 (14.6)                         | 0.87                           |
| 84 (2,134)  | 2,820 (12.5)          | 0.26 (6.60)            | 2,820 (12.5)                         | 0.81                           |
| 96 (2,438)  | 2,470 (11.0)          | 0.34 (8.64)            | 2,470 (11.0)                         | 0.75                           |
| 108 (2,743) | 2,190 (9.7)           | 0.42 (10.68)           | 2,190 (9.7)                          | 0.69                           |
| 120 (3,048) | 1,970 (8.8)           | 0.52 (13.21)           | 1,970 (8.8)                          | 0.64                           |

### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 8,890 (39.5)        | 32,840 (146.1)                           |
| 24 (610)        | 8,730 (38.8)        | 29,720 (132.2)                           |
| 36 (914)        | 8,490 (37.8)        | 26,150 (116.3)                           |
| 48 (1,219)      | 8,220 (36.6)        | 23,020 (102.4)                           |
| 60 (1,524)      | 7,840 (34.9)        | 20,590 (91.6)                            |
| 72 (1,829)      | 7,370 (32.8)        | 17,300 (77.0)                            |
| 84 (2,134)      | 6,870 (30.6)        | 13,530 (60.2)                            |
| 96 (2,438)      | 6,210 (27.6)        | 10,370 (46.1)                            |
| 108 (2,743)     | 5,510 (24.5)        | 8,190 (36.4)                             |
| 120 (3,048)     | 4,850 (21.6)        | 6,640 (29.5)                             |

\* Load limited by spot weld shear

\*\* KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

### Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

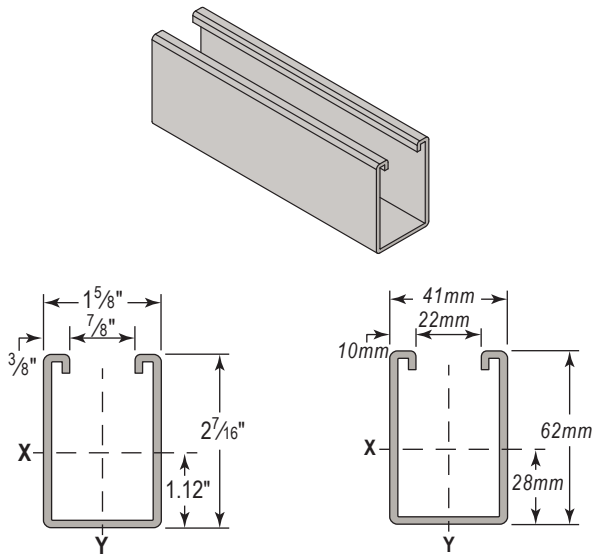
- Channel with Short Slots . . . . . 0.90
- Channel with Long Slots . . . . . 0.90
- Channel with Holes . . . . . 0.95

# 1-5/8" x 2-7/16" (41mm x 62mm) Channel



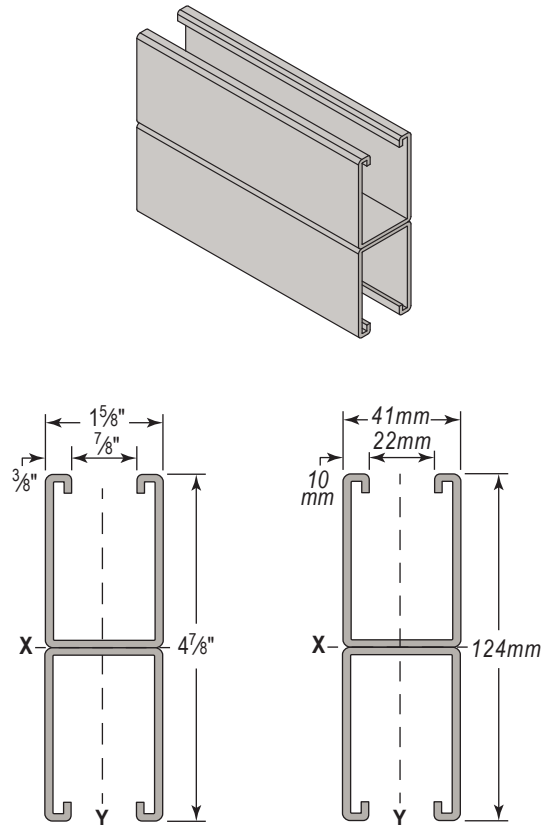
Standard Finish: Pre-Galvanized (PG)

## 1-5/8" x 2-7/16" (41mm x 62mm)



| SPECIFYING Brand & Part No.                                 | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 2-7/16" |
|---|--------|--------------------------------|---------------|------------------|
|   |        | VERSABAR                       | FLORIDA STRUT |                  |
| <b>Solid Channel</b>  |        |                                |               |                  |
| W100  | 12 Ga. | --                             | FS122716NS    |                  |
| <b>Channel with Holes on 1-7/8" center *</b>                |        |                                |               |                  |
| W100H   | 12 Ga. | --                             | FS122716HS    |                  |
| <b>Channel with 9/16" x 1-1/8" Short Slots on 2" center</b> |        |                                |               |                  |
| W100EH  | 12 Ga. | --                             | FS122716EH    |                  |
| <b>Channel with 13/32" x 3" Long Slots on 4" center</b>     |        |                                |               |                  |
| W100SL  | 12 Ga. | --                             | FS122716SL    |                  |

## 1-5/8" x 4-7/8" (41mm x 124mm)



| SPECIFYING Brand & Part No.                                 | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 4-7/8" |
|---|--------|--------------------------------|---------------|-----------------|
|   |        | VERSABAR                       | FLORIDA STRUT |                 |
| <b>Back-to-Back Solid Channel</b>                           |        |                                |               |                 |
| W101  | 12 Ga. | --                             | FS122716NSBB  |                 |
| <b>Back-to-Back Channel with 9/16" x 1-1/8" Short Slots</b> |        |                                |               |                 |
| W101EH  | 12 Ga. | --                             | FS122716EHBB  |                 |

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available  
**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum  
**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.



## Section Properties

| 12 Gauge<br>SPECIFYING<br>Brand & Part No.<br>WESANCO        | Wt./Ft.<br>Lbs.<br>(Kg/M) | Area of<br>Section<br>Sq. in.<br>(Sq. cm) | X-X Axis  |  |                    | Y-Y Axis                                     |  |                   | DISCONTINUED<br>Brands & Part No. |               |
|--|---------------------------|---|---|--|--------------------|--|--|-------------------|-----------------------------------|---------------|
|  |                           |   | lx in. <sup>4</sup><br>(lx cm <sup>4</sup> )    | Sx in. <sup>3</sup><br>(Sx cm <sup>3</sup> ) | rx in.<br>(rx. cm) | ly in. <sup>4</sup><br>(ly cm <sup>4</sup> ) | Sy in. <sup>3</sup><br>(Sy cm <sup>3</sup> ) | ry in.<br>(ry cm) | VERSABAR                          | FLORIDA STRUT |
|  |                           |   | 1 5/8" x 2 7/16" (41mm x 62mm) 12 Gauge Channel |  |                    |  |  |                   |                                   |               |
| W100   | 2.49 (3.71)               | 0.732 (4.72)                              | 0.530 (22.06)                                   | 0.400 (6.55)                                 | 0.851 (2.16)       | 0.337 (14.03)                                | 0.415 (6.80)                                 | 0.679 (1.72)      | --                                | FS122716NS    |
| 1 5/8" x 4 7/8" (41mm x 124mm) 12 Gauge Back-to-Back Channel |                           |   |   |  |                    |  |  |                   |                                   |               |
| W101   | 4.98 (7.41)               | 1.463 (9.44)                              | 2.867 (119.3)                                   | 1.176 (19.27)                                | 1.400 (3.56)       | 0.674 (28.05)                                | 0.829 (13.58)                                | 0.679 (1.72)      | --                                | FS122716NSBB  |

## 1 5/8" x 2 7/16" (41mm x 62mm) 12 Gauge Channel

### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction |
|-------------|-----------------------|------------------------|--------------------------------------|--------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             | Rate                           |
| 12 (305)    | 6,700 (29.8)          | 0.01 (0.3)             | 6,700 (29.8)                         | 1.00                           |
| 24 (610)    | 3,350 (14.9)          | 0.04 (1.0)             | 3,350 (14.9)                         | 0.99                           |
| 36 (914)    | 2,230 (9.9)           | 0.09 (2.3)             | 2,230 (9.9)                          | 0.88                           |
| 48 (1,219)  | 1,670 (7.4)           | 0.15 (3.8)             | 1,670 (7.4)                          | 0.77                           |
| 60 (1,524)  | 1,340 (6.0)           | 0.24 (6.1)             | 1,340 (6.0)                          | 0.66                           |
| 72 (1,829)  | 1,120 (5.0)           | 0.35 (8.9)             | 960 (4.3)                            | 0.57                           |
| 84 (2,134)  | 960 (4.3)             | 0.47 (11.9)            | 710 (3.2)                            | 0.50                           |
| 96 (2,438)  | 840 (3.7)             | 0.62 (15.7)            | 540 (2.4)                            | 0.45                           |
| 108 (2,743) | 740 (3.3)             | 0.78 (19.8)            | 430 (1.9)                            | 0.42                           |
| 120 (3,048) | 670 (3.0)             | 0.96 (24.4)            | 350 (1.6)                            | 0.39                           |

### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 5,090 (22.6)        | 15,090 (67.1)                            |
| 24 (610)        | 4,720 (21.0)        | 10,890 (48.4)                            |
| 36 (914)        | 4,020 (17.9)        | 7,040 (31.3)                             |
| 48 (1,219)      | 3,210 (14.3)        | 4,630 (20.6)                             |
| 60 (1,524)      | 2,570 (11.4)        | 3,460 (15.4)                             |
| 72 (1,829)      | 2,130 (9.5)         | 2,780 (12.4)                             |
| 84 (2,134)      | 1,810 (8.1)         | 2,340 (10.4)                             |
| 96 (2,438)      | 1,580 (7.0)         | 2,020 (9.0)                              |
| 108 (2,743)     | 1,400 (6.2)         | 1,780 (7.9)                              |
| 120 (3,048)     | 1,270 (5.6)         | 1,580 (7.0)                              |

## 1 5/8" x 4 7/8" (41mm x 124mm) 12 Gauge Back-to-Back Channel

### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction |
|-------------|-----------------------|------------------------|--------------------------------------|--------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             | Rate                           |
| 12 (305)    | 5,200 (23.1) *        | 0.00                   | 5,200 (23.1) *                       | 1.00                           |
| 24 (610)    | 5,200 (23.1) *        | 0.01 (0.25)            | 5,200 (23.1) *                       | 1.00                           |
| 36 (914)    | 5,200 (23.1) *        | 0.04 (1.01)            | 5,200 (23.1) *                       | 1.00                           |
| 48 (1,219)  | 4,930 (21.9)          | 0.08 (2.03)            | 4,930 (21.9)                         | 0.98                           |
| 60 (1,524)  | 3,940 (17.5)          | 0.13 (3.30)            | 3,940 (17.5)                         | 0.92                           |
| 72 (1,829)  | 3,290 (14.6)          | 0.19 (4.83)            | 3,290 (14.6)                         | 0.87                           |
| 84 (2,134)  | 2,820 (12.5)          | 0.26 (6.60)            | 2,820 (12.5)                         | 0.81                           |
| 96 (2,438)  | 2,470 (11.0)          | 0.34 (8.64)            | 2,470 (11.0)                         | 0.75                           |
| 108 (2,743) | 2,190 (9.7)           | 0.42 (10.68)           | 2,190 (9.7)                          | 0.69                           |
| 120 (3,048) | 1,970 (8.8)           | 0.52 (13.21)           | 1,970 (8.8)                          | 0.64                           |

### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 8,890 (39.5)        | 32,840 (146.1)                           |
| 24 (610)        | 8,730 (38.8)        | 29,720 (132.2)                           |
| 36 (914)        | 8,490 (37.8)        | 26,150 (116.3)                           |
| 48 (1,219)      | 8,220 (36.6)        | 23,020 (102.4)                           |
| 60 (1,524)      | 7,840 (34.9)        | 20,590 (91.6)                            |
| 72 (1,829)      | 7,370 (32.8)        | 17,300 (77.0)                            |
| 84 (2,134)      | 6,870 (30.6)        | 13,530 (60.2)                            |
| 96 (2,438)      | 6,210 (27.6)        | 10,370 (46.1)                            |
| 108 (2,743)     | 5,510 (24.5)        | 8,190 (36.4)                             |
| 120 (3,048)     | 4,850 (21.6)        | 6,640 (29.5)                             |

\* Load limited by spot weld shear

\*\* KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

### Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

|                          |      |
|--------------------------|------|
| Channel with Short Slots | 0.90 |
| Channel with Long Slots  | 0.90 |
| Channel with Holes       | 0.95 |

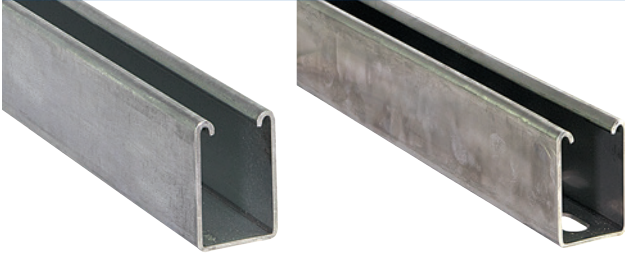


# Pre-Cut Channel - 12 Gauge



1-5/8" x 2-7/16" (41mm x 62mm)

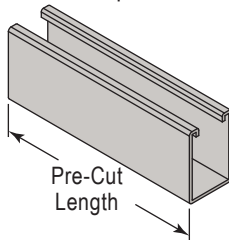
## 1-5/8" x 2-7/16" (41mm x 62mm) Solid or Short Slots Channel Pre-Cut Lengths



### Solid Channel

### Channel With Short Slots

9/16" x 1-1/8" (14mm x 29mm) Slots  
are punched on 2" (51mm) centers.



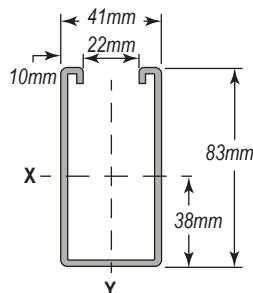
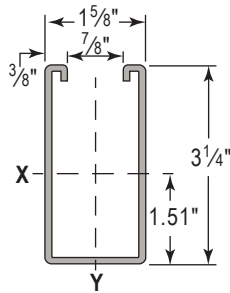
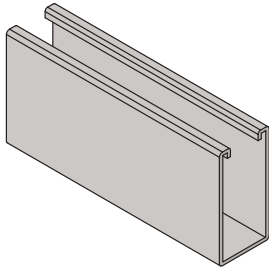
| Pre-Cut Length | Part Number Order Chart for Different Options   |                          |
|----------------|---|--------------------------|
|                | SPECIFYING Brand & Part No.   |                          |
|                | <b>WESANCO</b>  |                          |
| 6" (15.2cm)    | W100 XXXXX XXXX   |                          |
| 12" (0.31m)    | Style:<br>W100 - Solid<br>W100EH - Short Slots  | Length:<br>06IN 48IN     |
| 18" (0.45m)    |   | 12IN 54IN                |
| 24" (0.61m)    |   | 18IN 60IN                |
| 30" (0.76m)    |   | 24IN 72IN                |
| 36" (0.91m)    |   | 30IN 80IN                |
| 42" (1.07m)    |   | 36IN 96IN                |
| 48" (1.22m)    |   | 42IN                     |
| 54" (1.37m)    | Material/Finish:<br>PG - Pre-Galvanized<br>S4 - Stainless Steel Type 304<br>S6 - Stainless Steel Type 316 |                          |
| 60" (1.52m)    |   |                          |
| 72" (1.83m)    |   |                          |
| 80" (2.03m)    |   |                          |
| 96" (2.44m)    |   |                          |
| 10' (3.05m)    |   |                          |
| 20' (6.10m)    |   |                          |
|                | EXAMPLE: W100S648IN   |                          |
|                | 1-5/8" x 2-7/16"<br>W100 - Solid Channel  | 48IN - 48" Long          |
|                |   | S6 - 316 Stainless Steel |

Note: Minimum order quantity is 100 pieces for any size under 10'.

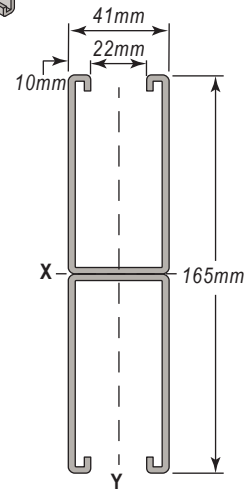
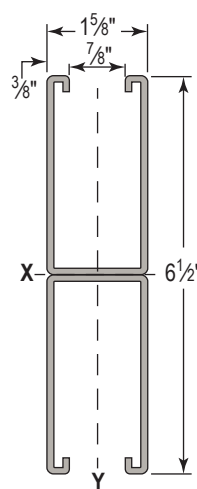
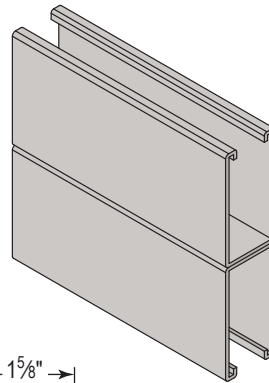
Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available  
**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum  
**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.



## 1-5/8" x 3-1/4" (41mm x 83mm)



## 1-5/8" x 6-1/2" (41mm x 165mm)



| SPECIFYING   |        |                                |               |                 |
|--|--------|--------------------------------|---------------|-----------------|
| Brand & Part No.   | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 3-1/4" |
| WESANCO  |        | VERSABAR                       | FLORIDA STRUT |                 |
| <b>Solid Channel</b>   |        |                                |               |                 |
| W150   | 12 Ga. | VA11                           | FS12314NS     |                 |
| <b>Channel with 9/16" Holes on 1-7/8" center *</b>           |        |                                |               |                 |
| W150H  | 12 Ga. | VA11P187                       | FS12314HS     |                 |
| <b>Channel with 9/16" x 1-1/8" Short Slots on 2" center</b>  |        |                                |               |                 |
| W150EH   | 12 Ga. | VA11PLH                        | FS12314EH     |                 |
| <b>Channel with 11/16" x 1-1/8" Short Slots on 2" center</b> |        |                                |               |                 |
| W150EH58   | 12 Ga. | VA11PLW                        | --            |                 |

\* Various hole patterns available, contact representative for more information

| SPECIFYING   |        |                                |               |                 |
|--|--------|--------------------------------|---------------|-----------------|
| Brand & Part No.   | Gauge  | DISCONTINUED Brands & Part No. |               | 1-5/8" x 6-1/2" |
| WESANCO  |        | VERSABAR                       | FLORIDA STRUT |                 |
| <b>Back-to-Back Solid Channel</b>                            |        |                                |               |                 |
| W151   | 12 Ga. | VA11201                        | FS12314NSBB   |                 |
| <b>Back-to-Back Channel with 9/16" x 1-1/8" Short Slots</b>  |        |                                |               |                 |
| W151EH   | 12 Ga. | VA11201PLH                     | FS12314EHBB   |                 |
| <b>Back-to-Back Channel with 11/16" x 1-1/8" Short Slots</b> |        |                                |               |                 |
| W151EH58   | 12 Ga. | VA11201PLW                     |               |                 |

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available

**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum

**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.





# 1-5/8" x 3-1/4" (41mm x 83mm) Channel



Standard Finish: Pre-Galvanized (PG)

## Section Properties

| 12 Gauge<br>SPECIFYING<br>Brand & Part No.                          | Wt./Ft.<br>Lbs.<br>(Kg/M) | Area of<br>Section<br>Sq. in.<br>(Sq. cm) | X-X Axis                                     |  |                     | Y-Y Axis                                     |  |                   | DISCONTINUED<br>Brands & Part No. |               |
|---|---------------------------|---|--|--|---------------------|--|--|-------------------|-----------------------------------|---------------|
|   |                           |   | Ix in. <sup>4</sup><br>(Ix cm <sup>4</sup> ) | Sx in. <sup>3</sup><br>(Sx cm <sup>3</sup> ) | rx. in.<br>(rx. cm) | Iy in. <sup>4</sup><br>(Iy cm <sup>4</sup> ) | Sy in. <sup>3</sup><br>(Sy cm <sup>3</sup> ) | ry in.<br>(ry cm) | VERSABAR                          | FLORIDA STRUT |
| <b>1 5/8" x 3 1/4" (41mm x 83mm) 12 Gauge Channel</b>               |                           |   |  |  |                     |  |  |                   |                                   |               |
| <b>W150</b>   | 3.07 (4.57)               | 0.902 (5.82)                              | 1.113 (46.33)                                | 0.639 (10.47)                                | 1.111 (2.82)        | 0.435 (18.11)                                | 0.536 (8.78)                                 | 0.695 (1.77)      | VA11                              | FS12314NS     |
| <b>1 5/8" x 6 1/2" (41mm x 165mm) 12 Gauge Back-to-Back Channel</b> |                           |   |  |  |                     |  |  |                   |                                   |               |
| <b>W151</b>   | 6.14 (9.14)               | 1.804 (11.64)                             | 6.34 (263.85)                                | 1.951 (31.97)                                | 1.874 (4.76)        | 0.871 (36.25)                                | 1.072 (17.57)                                | 0.695 (1.77)      | VA11201                           | FS12314NSBB   |

## 1 5/8" x 3 1/4" (41mm x 83mm) 12 Gauge Channel

### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             |                                     |
| 12 (305)    | 10,720 (47.7)         | 0.01 (0.3)             | 10,720 (47.7)                        | 1.00                                |
| 24 (610)    | 5,360 (23.8)          | 0.03 (0.8)             | 5,360 (23.8)                         | 0.98                                |
| 36 (914)    | 3,570 (15.9)          | 0.07 (1.8)             | 3,570 (15.9)                         | 0.85                                |
| 48 (1,219)  | 2,680 (11.9)          | 0.12 (3.0)             | 2,680 (11.9)                         | 0.70                                |
| 60 (1,524)  | 2,140 (9.5)           | 0.18 (4.6)             | 2,140 (9.5)                          | 0.54                                |
| 72 (1,829)  | 1,790 (8.0)           | 0.27 (6.9)             | 1,790 (8.0)                          | 0.44                                |
| 84 (2,134)  | 1,530 (6.8)           | 0.36 (9.1)             | 1,490 (6.6)                          | 0.37                                |
| 96 (2,438)  | 1,340 (6.0)           | 0.47 (11.9)            | 1,140 (5.1)                          | 0.33                                |
| 108 (2,743) | 1,190 (5.3)           | 0.59 (15.0)            | 900 (4.0)                            | 0.29                                |
| 120 (3,048) | 1,070 (4.8)           | 0.73 (18.5)            | 730 (3.2)                            | 0.27                                |
| 132 (3,353) | 970 (4.3)             | 0.89 (22.5)            | 600 (2.7)                            | 0.25                                |
| 144 (3,658) | 890 (4.0)             | 1.05 (26.8)            | 510 (2.3)                            | 0.24                                |
| 156 (3,962) | 820 (3.6)             | 1.23 (31.4)            | 430 (1.9)                            | 0.23                                |
| 168 (4,267) | 770 (3.4)             | 1.45 (36.8)            | 370 (1.6)                            | 0.22                                |
| 180 (4,572) | 710 (3.2)             | 1.64 (41.7)            | 320 (1.4)                            | 0.21                                |
| 192 (4,877) | 670 (3.0)             | 1.88 (47.8)            | 280 (1.2)                            | 0.20                                |
| 204 (5,182) | 630 (2.8)             | 2.12 (53.9)            | 250 (1.1)                            | 0.19                                |
| 216 (5,486) | 600 (2.7)             | 2.40 (60.9)            | 230 (1.0)                            | 0.19                                |
| 228 (5,791) | 560 (2.5)             | 2.63 (66.9)            | 200 (0.9)                            | 0.18                                |
| 240 (6,096) | 540 (2.4)             | 2.96 (75.2)            | 180 (0.8)                            | 0.18                                |

\* Load limited by spot weld shear

\*\* KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 6,230 (27.7)        | 18,480 (82.2)                            |
| 24 (610)        | 5,730 (25.5)        | 12,890 (57.3)                            |
| 36 (914)        | 4,740 (21.1)        | 7,650 (34.0)                             |
| 48 (1,219)      | 3,590 (16.0)        | 4,800 (21.4)                             |
| 60 (1,524)      | 2,740 (12.2)        | 3,460 (15.4)                             |
| 72 (1,829)      | 2,160 (9.6)         | 2,710 (12.1)                             |
| 84 (2,134)      | 1,760 (7.8)         | 2,250 (10.0)                             |
| 96 (2,438)      | 1,500 (6.7)         | 1,930 (8.6)                              |
| 108 (2,743)     | 1,310 (5.8)         | 1,700 (7.6)                              |
| 120 (3,048)     | 1,170 (5.2)         | 1,520 (6.8)                              |
| 132 (3,353)     | 1,070 (4.8)         | 1,370 (6.1)                              |
| 144 (3,658)     | 980 (4.4)           | **                                       |
| 156 (3,962)     | 910 (4.0)           | **                                       |
| 168 (4,267)     | 850 (3.8)           | **                                       |
| 180 (4,572)     | **                  | **                                       |
| 192 (4,877)     | **                  | **                                       |
| 204 (5,182)     | **                  | **                                       |
| 216 (5,486)     | **                  | **                                       |
| 228 (5,791)     | **                  | **                                       |
| 240 (6,096)     | **                  | **                                       |

### Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

- Channel with Short Slots . . . . . 0.90
- Channel with Holes . . . . . 0.95



Introduction  
Channel  
Channel Nuts & Hardware  
General Fittings  
Brackets  
Beam Clamps  
Pipe & Conduit Supports  
Electrical Fittings  
Spring Steel  
Concrete Inserts  
Roofing Supports  
Fiberglass System  
Technical Data

## 1-5/8" x 6-1/2" (41mm x 165mm) 12 Gauge Back-to-Back Channel

### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             |                                     |
| 12 (305)    | 6,920 (30.8) *        | 0.00                   | 6,920 (30.8) *                       | 1.00                                |
| 24 (610)    | 6,920 (30.8) *        | 0.01 (0.5)             | 6,920 (30.8) *                       | 1.00                                |
| 36 (914)    | 6,920 (30.8) *        | 0.02 (0.5)             | 6,920 (30.8) *                       | 1.00                                |
| 48 (1,219)  | 6,920 (30.8) *        | 0.05 (1.0)             | 6,920 (30.8) *                       | 0.96                                |
| 60 (1,524)  | 6,540 (29.1)          | 0.10 (1.8)             | 6,540 (29.1)                         | 0.90                                |
| 72 (1,829)  | 5,450 (24.2)          | 0.13 (3.3)             | 5,450 (24.2)                         | 0.83                                |
| 84 (2,134)  | 4,670 (20.8)          | 0.19 (4.8)             | 4,670 (20.8)                         | 0.75                                |
| 96 (2,438)  | 4,090 (18.2)          | 0.25 (6.4)             | 4,090 (18.2)                         | 0.68                                |
| 108 (2,743) | 3,630 (16.1)          | 0.32 (8.1)             | 3,630 (16.1)                         | 0.60                                |
| 120 (3,048) | 3,270 (14.5)          | 0.39 (9.9)             | 3,270 (14.5)                         | 0.53                                |
| 132 (3,353) | 2,970 (13.2)          | 0.48 (12.1)            | 2,970 (13.2)                         | 0.49                                |
| 144 (3,658) | 2,730 (12.1)          | 0.57 (14.4)            | 2,730 (12.1)                         | 0.45                                |
| 156 (3,962) | 2,520 (11.2)          | 0.67 (16.9)            | 2,520 (11.2)                         | 0.42                                |
| 168 (4,267) | 2,340 (10.4)          | 0.77 (19.6)            | 2,340 (10.4)                         | 0.38                                |
| 180 (4,572) | 2,180 (9.7)           | 0.89 (22.5)            | 2,180 (9.7)                          | 0.34                                |
| 192 (4,877) | 2,040 (9.1)           | 1.01 (25.5)            | 2,040 (9.1)                          | 0.31                                |
| 204 (5,182) | 1,920 (8.5)           | 1.13 (28.8)            | 1,920 (8.5)                          | 0.27                                |
| 216 (5,486) | 1,820 (8.1)           | 1.28 (32.4)            | 1,820 (8.1)                          | 0.24                                |
| 228 (5,791) | 1,720 (7.7)           | 1.42 (36.1)            | 1,720 (7.7)                          | 0.22                                |
| 240 (6,096) | 1,640 (7.3)           | 1.58 (40.1)            | 1,640 (7.3)                          | 0.20                                |

### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 11,040 (49.1)       | 40,490 (180.1)                           |
| 24 (610)        | 10,820 (48.1)       | 36,400 (161.9)                           |
| 36 (914)        | 10,490 (46.7)       | 31,330 (139.4)                           |
| 48 (1,219)      | 10,080 (44.8)       | 26,520 (118.0)                           |
| 60 (1,524)      | 9,400 (41.8)        | 22,520 (100.2)                           |
| 72 (1,829)      | 8,650 (38.5)        | 19,410 (86.3)                            |
| 84 (2,134)      | 7,930 (35.3)        | 17,050 (75.8)                            |
| 96 (2,438)      | 7,280 (32.4)        | 13,400 (59.6)                            |
| 108 (2,743)     | 6,660 (29.6)        | 10,590 (47.1)                            |
| 120 (3,048)     | 5,800 (25.8)        | 8,580 (38.2)                             |
| 132 (3,353)     | 5,060 (22.5)        | 7,090 (31.5)                             |
| 144 (3,658)     | 4,420 (19.7)        | **                                       |
| 156 (3,962)     | 3,870 (17.2)        | **                                       |
| 168 (4,267)     | 3,430 (15.3)        | **                                       |
| 180 (4,572)     | **                  | **                                       |
| 192 (4,877)     | **                  | **                                       |
| 204 (5,182)     | **                  | **                                       |
| 216 (5,486)     | **                  | **                                       |
| 228 (5,791)     | **                  | **                                       |
| 240 (6,096)     | **                  | **                                       |

\* Load limited by spot weld shear

\*\* KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

### Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

- Channel with Short Slots . . . . . 0.90
- Channel with Holes . . . . . 0.95

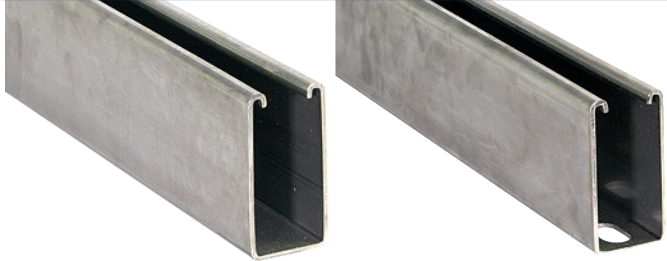


# Pre-Cut Channel - 12 Gauge



1-5/8" x 6-1/2" (41mm x 165mm)

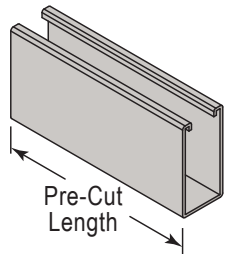
## 1-5/8" x 3-1/4" (41mm x 83mm) Solid or Short Slots Channel Pre-Cut Lengths



### Solid Channel

### Channel With Short Slots

9/16" x 1-1/8" (14mm x 29mm) Slots  
are punched on 2" (51mm) centers.



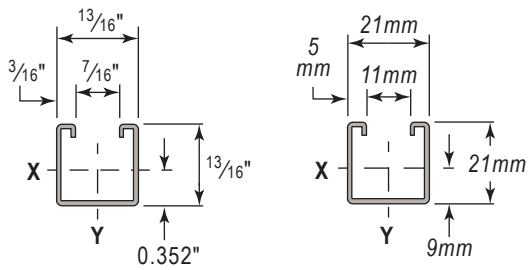
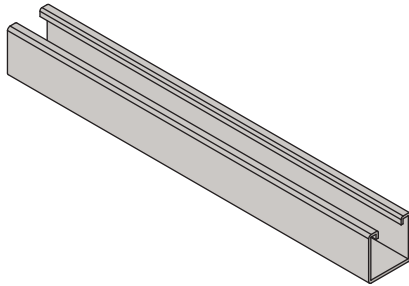
| Pre-Cut Length | Part Number Order Chart for Different Options |                          |
|----------------|---|--------------------------|
|                | SPECIFYING Brand & Part No.                   |                          |
|                | <b>WESANCO</b>                                |                          |
| 6" (15.2cm)    | W150 XXXXX XXXX                               |                          |
| 12" (0.31m)    | Style:  | Length:                  |
| 18" (0.45m)    | W150 - Solid                                  | 06IN 48IN                |
| 24" (0.61m)    | W150EH - Short Slots                          | 12IN 54IN                |
| 30" (0.76m)    |   | 18IN 60IN                |
| 36" (0.91m)    | Material/Finish:                              | 24IN 72IN                |
| 42" (1.07m)    | PG - Pre-Galvanized                           | 30IN 80IN                |
| 48" (1.22m)    | S4 - Stainless Steel Type 304                 | 36IN 96IN                |
| 54" (1.37m)    | S6 - Stainless Steel Type 316                 | 42IN                     |
| 60" (1.52m)    |   |                          |
| 72" (1.83m)    | EXAMPLE: W150S648IN                           |                          |
| 80" (2.03m)    | 1-5/8" x 3-1/4"                               | 48IN - 48" Long          |
| 96" (2.44m)    | W150 - Solid Channel                          |                          |
| 10' (3.05m)    |   | S6 - 316 Stainless Steel |
| 20' (6.10m)    |   |                          |

Note: Minimum order quantity is 100 pieces for any size under 10'.

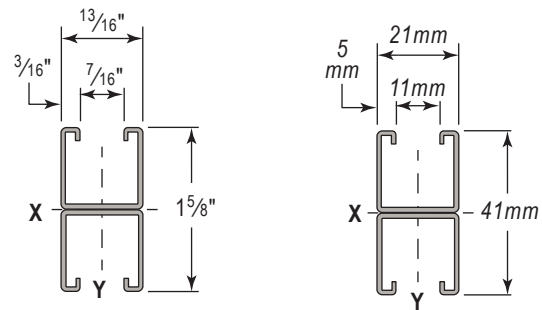
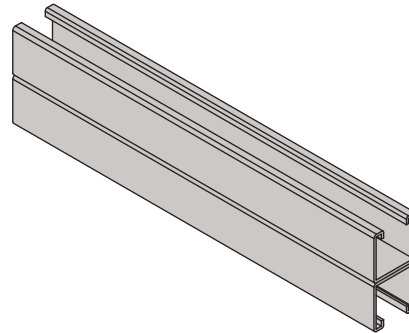
Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available  
**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum  
**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.



## 1<sup>3</sup>/<sub>16</sub>" x 1<sup>3</sup>/<sub>16</sub>" (21mm x 21mm)



## 1<sup>3</sup>/<sub>16</sub>" x 1<sup>5</sup>/<sub>8</sub>" (21mm x 41mm)



| SPECIFYING Brand & Part No. | Gauge  | DISCONTINUED Brands & Part No. |               | 1 <sup>3</sup> / <sub>16</sub> " x 1 <sup>3</sup> / <sub>16</sub> " Solid |
|-----------------------------|--------|--------------------------------|---------------|---|
|                             |        | VERSABAR                       | FLORIDA STRUT |   |
| WESANCO                     |        |                                |               |   |
| <b>Solid Channel</b>        |        |                                |               |   |
| W600                        | 19 Ga. | --                             | --            |   |

| SPECIFYING Brand & Part No. | Gauge  | DISCONTINUED Brands & Part No. |               | 1 <sup>3</sup> / <sub>16</sub> " x 1 <sup>5</sup> / <sub>8</sub> " Solid |
|-----------------------------|--------|--------------------------------|---------------|--|
|                             |        | VERSABAR                       | FLORIDA STRUT |  |
| WESANCO                     |        |                                |               |  |
| <b>Solid Channel</b>        |        |                                |               |  |
| W601                        | 19 Ga. | --                             | --            |  |

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available  
**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum  
**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.



# 13/16" x 13/16" (21mm x 21mm) Channel



Standard Finish: Pre-Galvanized (PG)

## Section Properties

| 19 Gauge<br>SPECIFYING<br>Brand & Part No.<br>WESANCO              | Wt./Ft.<br>Lbs.<br>(Kg/M) | Area of<br>Section<br>Sq. in.<br>(Sq. cm) | X-X Axis                                     |  |                     | Y-Y Axis                                     |  |                   | DISCONTINUED<br>Brands & Part No. |               |
|--|---------------------------|---|--|--|---------------------|--|--|-------------------|-----------------------------------|---------------|
|  |                           |   | Ix in. <sup>4</sup><br>(Ix cm <sup>4</sup> ) | Sx in. <sup>3</sup><br>(Sx cm <sup>3</sup> ) | rx. in.<br>(rx. cm) | Iy in. <sup>4</sup><br>(Iy cm <sup>4</sup> ) | Sy in. <sup>3</sup><br>(Sy cm <sup>3</sup> ) | ry in.<br>(ry cm) | VERSABAR                          | FLORIDA STRUT |
| <b>13/16" x 13/16" (21mm x 21mm) 19 Gauge Channel</b>              |                           |   |  |  |                     |  |  |                   |                                   |               |
| W600   | 0.36 (0.54)               | 0.107 (0.69)                              | 0.009 (0.37)                                 | 0.020 (0.33)                                 | 0.295 (0.75)        | 0.012 (0.50)                                 | 0.029 (0.48)                                 | 0.333 (0.85)      | --                                | --            |
| <b>13/16" x 1 5/8" (21mm x 41mm) 19 Gauge Back-to-Back Channel</b> |                           |   |  |  |                     |  |  |                   |                                   |               |
| W601   | 0.36 (0.54)               | 0.107 (0.69)                              | 0.009 (0.37)                                 | 0.020 (0.33)                                 | 0.295 (0.75)        | 0.012 (0.50)                                 | 0.029 (0.48)                                 | 0.333 (0.85)      | --                                | --            |

## 13/16" x 13/16" (21mm x 21mm) 19 Gauge Channel

### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction |
|-------------|-----------------------|------------------------|--------------------------------------|--------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             | Rate                           |
| 12 (305)    | 340 (1.5)             | 0.03 (0.8)             | 340 (1.5)                            | 1.00                           |
| 24 (610)    | 230 (1.0)             | 0.06 (1.5)             | 230 (1.0)                            | 0.80                           |
| 36 (914)    | 170 (0.8)             | 0.11 (2.8)             | 150 (0.7)                            | 0.63                           |
| 48 (1,219)  | 140 (0.6)             | 0.18 (4.6)             | 100 (0.4)                            | 0.52                           |
| 60 (1,524)  | 110 (0.5)             | 0.24 (6.1)             | 70 (0.3)                             | 0.45                           |
| 72 (1,829)  | 100 (0.4)             | 0.35 (8.9)             | 50 (0.2)                             | 0.40                           |
| 84 (2,134)  | 80 (0.4)              | 0.42 (10.7)            | 40 (0.2)                             | 0.37                           |
| 96 (2,438)  | 70 (0.3)              | 0.72 (18.3)            | NR                                   | 0.34                           |
| 108 (2,743) | 60 (0.3)              | 1.06 (26.9)            | NR                                   | 0.31                           |
| 120 (3,048) | 50 (0.2)              | 1.41 (35.8)            | NR                                   | 0.30                           |

### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 700 (3.1)           | 1,630 (7.3)                              |
| 24 (610)        | 600 (2.7)           | 1,100 (4.9)                              |
| 36 (914)        | 490 (2.2)           | 740 (3.3)                                |
| 48 (1,219)      | 400 (1.8)           | 560 (2.5)                                |
| 60 (1,524)      | 340 (1.5)           | 450 (2.0)                                |
| 72 (1,829)      | 290 (1.3)           | 380 (1.7)                                |
| 84 (2,134)      | 260 (1.2)           | 330 (1.5)                                |
| 96 (2,438)      | 210 (0.9)           | **                                       |
| 108 (2,743)     | 180 (0.8)           | **                                       |
| 120 (3,048)     | **                  | **                                       |

## 13/16" x 1 5/8" (21mm x 41mm) 19 Gauge Back-to-Back Channel

### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction |
|-------------|-----------------------|------------------------|--------------------------------------|--------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             | Rate                           |
| 12 (305)    | 280 (1.2) *           | 0.00                   | 280 (1.2) *                          | 1.00                           |
| 24 (610)    | 280 (1.2) *           | 0.04 (1.0)             | 280 (1.2) *                          | 0.99                           |
| 36 (914)    | 280 (1.2) *           | 0.13 (3.2)             | 280 (1.2) *                          | 0.89                           |
| 48 (1,219)  | 230 (1.0)             | 0.25 (6.3)             | 180 (0.8)                            | 0.79                           |
| 60 (1,524)  | 190 (0.8)             | 0.40 (10.2)            | 120 (0.5)                            | 0.70                           |
| 72 (1,829)  | 160 (0.7)             | 0.58 (14.8)            | 80 (0.4)                             | 0.60                           |
| 84 (2,134)  | 130 (0.6)             | 0.75 (19.2)            | 60 (0.3)                             | 0.51                           |
| 96 (2,438)  | 120 (0.5)             | 1.04 (26.4)            | 50 (0.2)                             | 0.44                           |
| 108 (2,743) | 100 (0.4)             | 1.23 (31.3)            | 40 (0.2)                             | 0.39                           |
| 120 (3,048) | 90 (0.4)              | 1.52 (38.7)            | 30 (0.1)                             | 0.35                           |

### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 1,240 (5.5)         | 4,300 (19.1)                             |
| 24 (610)        | 1,210 (5.4)         | 3,780 (16.8)                             |
| 36 (914)        | 1,170 (5.2)         | 3,340 (14.9)                             |
| 48 (1,219)      | 1,130 (5.0)         | 3,010 (13.4)                             |
| 60 (1,524)      | 1,070 (4.8)         | 2,460 (10.9)                             |
| 72 (1,829)      | 990 (4.4)           | 1,900 (8.5)                              |
| 84 (2,134)      | 900 (4.0)           | 1,460 (6.5)                              |
| 96 (2,438)      | 710 (3.2)           | 930 (4.1)                                |
| 108 (2,743)     | 550 (2.4)           | **                                       |
| 120 (3,048)     | **                  | **                                       |

\* Load limited by spot weld shear

\*\* KL/r > 200

NR = Not Recommended

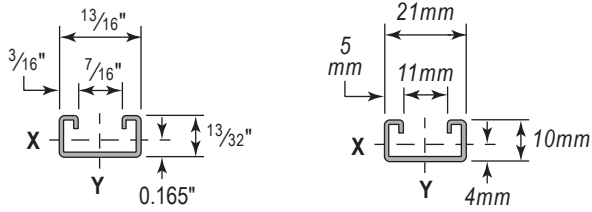
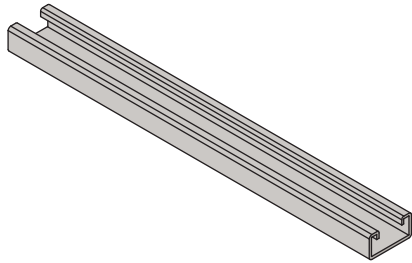
Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 34 - 36 for other beam support conditions.

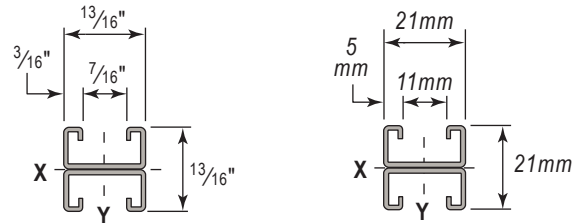
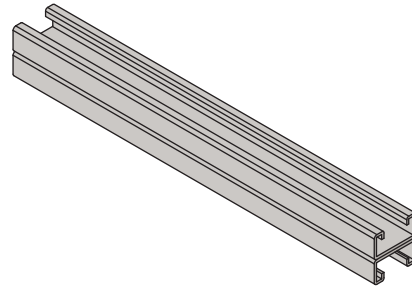




## 13/16" X 13/32" (21mm x 10mm)



## 13/16" X 13/16" (21mm x 21mm)



| SPECIFYING Brand & Part No. | Gauge  | DISCONTINUED Brands & Part No. |               | 13/16" X 13/32" Solid |
|-----------------------------|--------|--------------------------------|---------------|-----------------------|
|                             |        | VERSABAR                       | FLORIDA STRUT |                       |
| <b>WESANCO</b>              |        |                                |               |                       |
| <b>Solid Channel</b>        |        |                                |               |                       |
| <b>W700</b>                 | 19 Ga. | --                             | --            |                       |

| SPECIFYING Brand & Part No. | Gauge  | DISCONTINUED Brands & Part No. |               | 13/16" X 13/16" Solid |
|-----------------------------|--------|--------------------------------|---------------|-----------------------|
|                             |        | VERSABAR                       | FLORIDA STRUT |                       |
| <b>WESANCO</b>              |        |                                |               |                       |
| <b>Solid Channel</b>        |        |                                |               |                       |
| <b>W701</b>                 | 19 Ga. | --                             | --            |                       |

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available  
**Materials:** Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum  
**Finishes:** Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.

# 13/16" x 13/32" (21mm x 10mm) Channel



Standard Finish: Pre-Galvanized (PG)

## Section Properties

| 19 Gauge<br>SPECIFYING<br>Brand & Part No.<br>WESANCO              | Wt./Ft.<br>Lbs.<br>(Kg/M) | Area of<br>Section<br>Sq. in.<br>(Sq. cm) | X-X Axis                                     |  |                     | Y-Y Axis                                     |  |                   | DISCONTINUED<br>Brands & Part No. |               |
|--|---------------------------|---|--|--|---------------------|--|--|-------------------|-----------------------------------|---------------|
|  |                           |   | lx in. <sup>4</sup><br>(lx cm <sup>4</sup> ) | Sx in. <sup>3</sup><br>(Sx cm <sup>3</sup> ) | rx. in.<br>(rx. cm) | ly in. <sup>4</sup><br>(ly cm <sup>4</sup> ) | Sy in. <sup>3</sup><br>(Sy cm <sup>3</sup> ) | ry in.<br>(ry cm) | VERSABAR                          | FLORIDA STRUT |
| <b>13/16" x 13/32" (21mm x 10mm) 19 Gauge Channel</b>              |                           |   |  |  |                     |  |  |                   |                                   |               |
| W700   | 0.25 (0.37)               | 0.074 (0.48)                              | 0.002 (0.08)                                 | 0.007 (0.11)                                 | 0.149 (0.38)        | 0.007 (0.29)                                 | 0.017 (0.28)                                 | 0.307 (0.78)      | --                                | --            |
| <b>13/16" x 13/16" (21mm x 21mm) 19 Gauge Back-to-Back Channel</b> |                           |   |  |  |                     |  |  |                   |                                   |               |
| W701   | 0.51 (0.76)               | 0.149 (0.96)                              | 0.007 (0.29)                                 | 0.018 (0.29)                                 | 0.222 (0.56)        | 0.014 (0.58)                                 | 0.034 (0.56)                                 | 0.307 (0.78)      | --                                | --            |

## 13/16" x 13/32" (21mm x 10mm) 19 Gauge Channel

### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             |                                     |
| 12 (305)    | 110 (0.5)             | 0.05 (1.3)             | 110 (0.5)                            | 1.00                                |
| 24 (610)    | 80 (0.4)              | 0.12 (3.0)             | 50 (0.2)                             | 0.95                                |
| 36 (914)    | 60 (0.3)              | 0.22 (5.6)             | 30 (0.1)                             | 0.91                                |
| 48 (1,219)  | 50 (0.2)              | 0.35 (8.9)             | 20 (0.1)                             | 0.87                                |
| 60 (1,524)  | 40 (0.2)              | 0.48 (12.2)            | NR                                   | 0.83                                |
| 72 (1,829)  | 30 (0.1)              | 0.58 (14.7)            | NR                                   | 0.80                                |
| 84 (2,134)  | 30 (0.1)              | 0.86 (21.8)            | NR                                   | 0.76                                |
| 96 (2,438)  | 20 (0.1)              | 1.12 (28.4)            | NR                                   | 0.73                                |
| 108 (2,743) | 20 (0.1)              | 1.94 (49.3)            | NR                                   | 0.70                                |
| 120 (3,048) | 20 (0.1)              | 3.08 (78.2)            | NR                                   | 0.66                                |

### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 460 (2.0)           | 1170 (5.2)                               |
| 24 (610)        | 410 (1.8)           | 720 (3.2)                                |
| 36 (914)        | 330 (1.5)           | 410 (1.8)                                |
| 48 (1,219)      | 260 (1.2)           | **                                       |
| 60 (1,524)      | 200 (0.9)           | **                                       |
| 72 (1,829)      | **                  | **                                       |
| 84 (2,134)      | **                  | **                                       |
| 96 (2,438)      | **                  | **                                       |
| 108 (2,743)     | **                  | **                                       |
| 120 (3,048)     | **                  | **                                       |

## 13/16" x 13/16" (21mm x 21mm) 19 Gauge Back-to-Back Channel

### Allowable Beam Loads

| Span        | Max. Uniform Load (W) | Deflection at Load (W) | Uniform Load at Deflection Span /240 | Lateral Bracing Load Reduction Rate |
|-------------|-----------------------|------------------------|--------------------------------------|-------------------------------------|
| In (mm)     | Lbs (kN)              | In (mm)                | Lbs (kN)                             |                                     |
| 12 (305)    | 210 (0.9) *           | 0.02 (0.6)             | 210 (0.9) *                          | 1.00                                |
| 24 (610)    | 150 (0.7)             | 0.13 (3.2)             | 120 (0.5)                            | 1.00                                |
| 36 (914)    | 100 (0.4)             | 0.28 (7.2)             | 50 (0.2)                             | 0.93                                |
| 48 (1,219)  | 80 (0.4)              | 0.53 (13.6)            | 30 (0.1)                             | 0.87                                |
| 60 (1,524)  | 60 (0.3)              | 0.78 (19.9)            | 20 (0.1)                             | 0.80                                |
| 72 (1,829)  | 50 (0.2)              | 1.13 (28.7)            | 10 (0.05)                            | 0.73                                |
| 84 (2,134)  | 40 (0.2)              | 1.43 (36.4)            | 10 (0.05)                            | 0.67                                |
| 96 (2,438)  | 40 (0.2)              | 2.14 (54.4)            | 10 (0.05)                            | 0.60                                |
| 108 (2,743) | 30 (0.1)              | 2.29 (58.0)            | 10 (0.05)                            | 0.54                                |
| 120 (3,048) | 30 (0.1)              | 3.13 (79.6)            | NR                                   | 0.49                                |

### Allowable Column Loads

| Unbraced Height | Max. Slot Face Load | Max. Column Load Applied at C.G. K = 1.0 |
|-----------------|---------------------|--|
| In (mm)         | Lbs (kN)            | Lbs (kN)                                 |
| 12 (305)        | 820 (3.6)           | 2,910 (12.9)                             |
| 24 (610)        | 790 (3.5)           | 2,330 (10.4)                             |
| 36 (914)        | 740 (3.3)           | 1,710 (7.6)                              |
| 48 (1,219)      | 670 (3.0)           | 1,150 (5.1)                              |
| 60 (1,524)      | 580 (2.6)           | 800 (3.6)                                |
| 72 (1,829)      | 490 (2.2)           | 590 (2.6)                                |
| 84 (2,134)      | 420 (1.9)           | **                                       |
| 96 (2,438)      | **                  | **                                       |
| 108 (2,743)     | **                  | **                                       |
| 120 (3,048)     | **                  | **                                       |

\* Load limited by spot weld shear

\*\* KL/r > 200

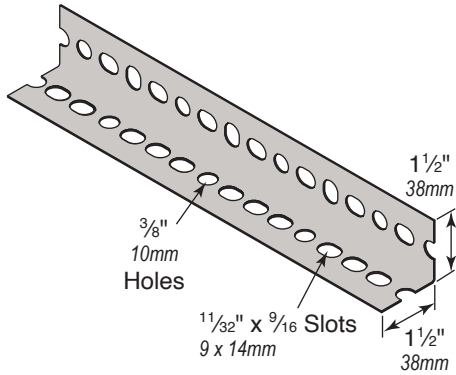
NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

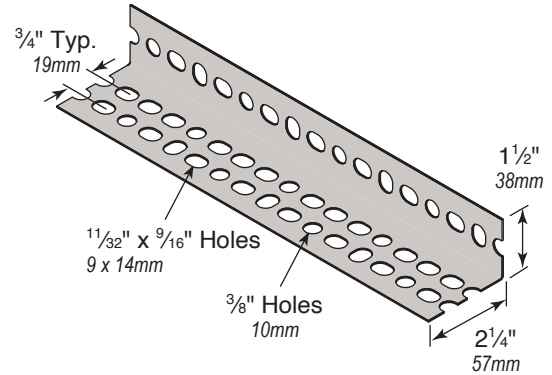
Refer to pages 34 - 36 for other beam support conditions.



## Light Duty Slotted Angle



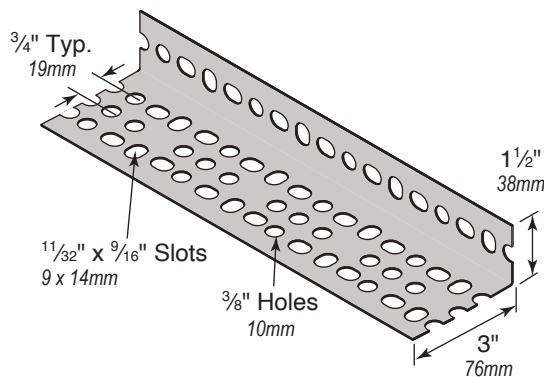
## Medium Duty Slotted Angle



| SPECIFYING Brand & Part No. | Gauge | Length | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------|--------|--------------------------------|---------------|
|                             |       |        | VERSABAR                       | FLORIDA STRUT |
| WESANCO                     |       |        |                                |               |
| SLA0150                     | 14    | 10 ft. | --                             | SA0150        |

| SPECIFYING Brand & Part No. | Gauge | Length | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------|--------|--------------------------------|---------------|
|                             |       |        | VERSABAR                       | FLORIDA STRUT |
| WESANCO                     |       |        |                                |               |
| SLA0225                     | 14    | 10 ft. | --                             | SA0225        |

## Heavy Duty Slotted Angle

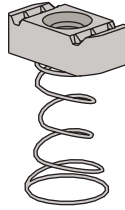


| SPECIFYING Brand & Part No. | Gauge | Length | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------|--------|--------------------------------|---------------|
|                             |       |        | VERSABAR                       | FLORIDA STRUT |
| WESANCO                     |       |        |                                |               |
| SLA0300                     | 12    | 10 ft. | --                             | SA0300        |



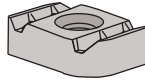
## Channel Nuts with Spring

Pages 72 - 73



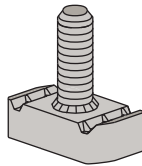
## Channel Nuts without Spring

Page 72



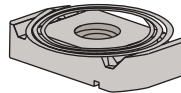
## Stud Channel Nuts

Pages 75 - 77



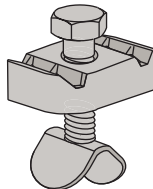
## Channel Nut with Top Spring

Page 74



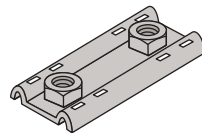
## Seismic Rod Stiffener

Page 74



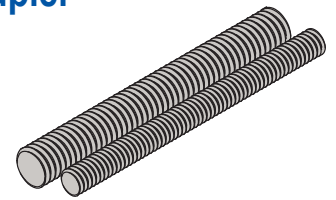
## Special Channel Nuts

Pages 75 & 77



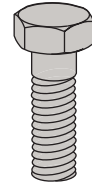
## Threaded Rod & Coupler

Pages 77 - 78



## Screws

Pages 78 - 79



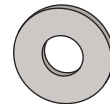
## Nuts

Page 79



## Washers

Page 79



## Swivels

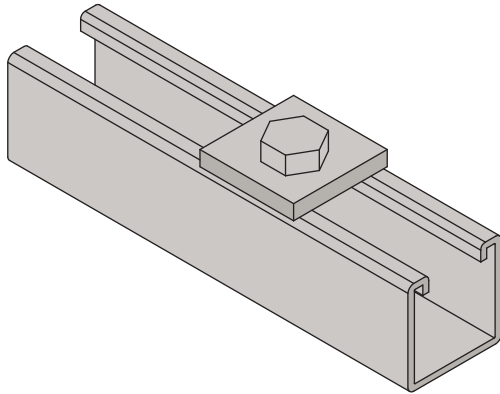
Page 80



| Hardware Material Specifications |                  |   |
|----------------------------------|------------------|---|
| Material                         | ASTM Designation | ASTM Description  |
| Bar Stock:<br>Channel Nuts       | A 36             | Merchant quality hot rolled carbon steel bars.                                    |
|                                  | A 29-03          | Steel bars, carbon, hot rolled special quality.                                   |
| Bar Stock                        | A 569            | Merchant quality hot rolled carbon steel bars.                                    |
| Hardware                         | A 563            | Carbon and alloy steel nuts. Carbon steel externally threaded standard fasteners. |
|                                  | A 307            |   |
| Channel Nuts<br>Stainless Steel  | B783             | Sintered 316 - "Domestic Nut"   |
|                                  | A240             | Bar Stock 316 - "Import Nut"  |
| Aluminum Nuts                    | B221             | Channel Nuts  |

See page 23 for Material or Finish ordering codes for part numbers.

| Hardware Finish Specifications          |  |
|---|--|
| Finish                                  | Description  |
| Electroplated                           | Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.  |
| Mill-Galvanized<br>(Pre-Galvanized)     | Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present. |
| Hot Dip Galvanized<br>After Fabrication | Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications: ASTM A 123, ASTM A153, or ASTM A386.                       |
| Special Coatings                        | Other commercially available finishes can be supplied per specification when required to protect applications.   |



## Slip And Pull-Out Load Data

| Part No. |             | Resistance To Slip<br>(Lbs./Bolt)<br>Safety Factor |             | Resistance To<br>Pull-Out (Lbs./Bolt)<br>Safety Factor |               |
|----------|-------------|--|-------------|--|---------------|
| Channel  | Channel Nut | 3  | 5           | 3  | 5             |
| W200     | W2-8        | 1,500 (6.8kN)                                      | 900 (4.0kN) | 2,000 (8.9kN)  | 1,200 (5.3kN) |
| W210     | W2-8        | 1,000 (4.5kN)                                      | 600 (2.7kN) | 1,400 (6.2kN)  | 840 (3.7kN)   |
| W300     | W2-8        | 1,500 (6.8kN)                                      | 900 (4.0kN) | 2,000 (8.9kN)  | 1,200 (5.3kN) |
| W500     | W5-8        | 1,000 (4.5kN)                                      | 600 (2.7kN) | 1,400 (6.2kN)  | 840 (3.7kN)   |

## Apply Proper Torque

A Channel Nut installed within the last inch of Channel (center of bolt to extreme end of Channel) cannot develop full capacity.

**REDUCE ULTIMATE DESIGN LOAD BY 50%.**

When installing a Channel Nut near the end of a Channel section, especially within the last inch, remember to true the legs forming the continuous Channel slot before inserting and tightening the Channel Nut.

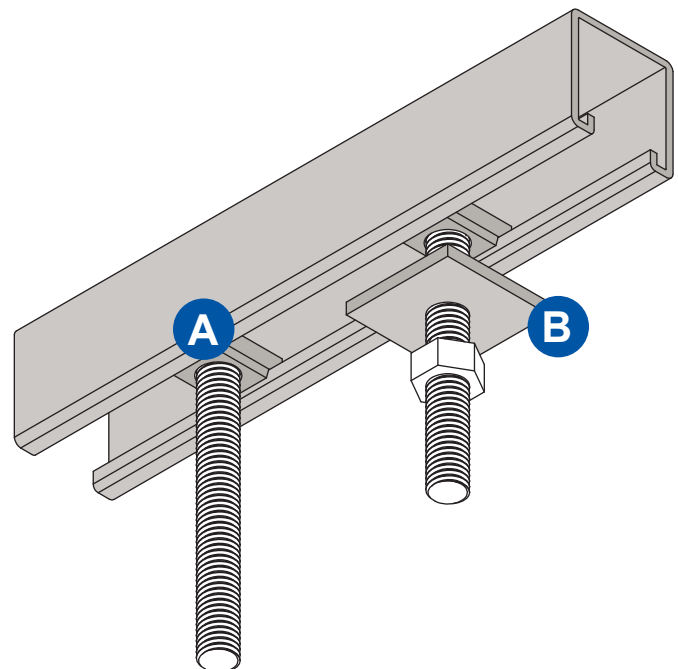
Channel Nuts or their matching threaded fastener that may have been contaminated with oil, wax, petroleum products or any friction reducing medium, will no longer develop a proper torque rating, and may be prone to loosening. To insure proper attachment load rating, properly clean and dry any such contaminated surfaces, paying specific attention to the threaded surfaces. If proper cleaning is not possible, replace the fasteners with uncontaminated stock.

Hanging a section of All Thread Rod directly from a Channel Nut within an overhead mounted section of Channel (without securing with a Fitting or Square Washer and a Hex or Jamb Nut) (Ref. A), does not allow the Channel Nut to function at its proper capacity and could result in the attachment slipping, twisting out or even jumping free of its confinement in a vibration situation. Always capture the Rod and Channel Nut at the face of the Channel as shown (Ref. B). Use proper torque value.

Bolt torque values are given to ensure the proper connection between components. It is important to understand that there is a direct, but not necessarily consistent, relationship between bolt torque and tension in the bolt. Too much tension in the bolt can cause it to break or crush the component parts. Too little tension in the bolt can prevent the connection from developing its full load capacity. The torque values given have been developed over many years of experience and testing.

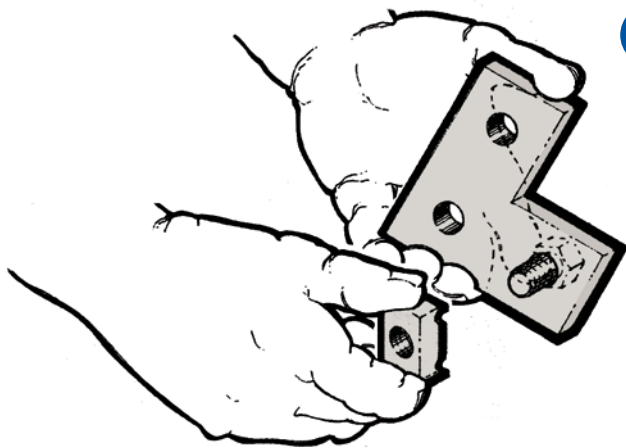
## Design Bolt Torque

| Bolt Size  | Foot Pounds            |
|------------|------------------------|
| 1/4" - 20  | 6 Ft/Lbs (8.1 N•m)     |
| 5/16" - 18 | 11 Ft/Lbs (14.9 N•m)   |
| 3/8" - 16  | 19 Ft/Lbs (25.8 N•m)   |
| 1/2" - 13  | 50 Ft/Lbs (67.8 N•m)   |
| 5/8" - 11  | 100 Ft/Lbs (135.6 N•m) |
| 3/4" - 10  | 125 Ft/Lbs (169.5 N•m) |





Standard Finish: Electro Galvanized (EG)

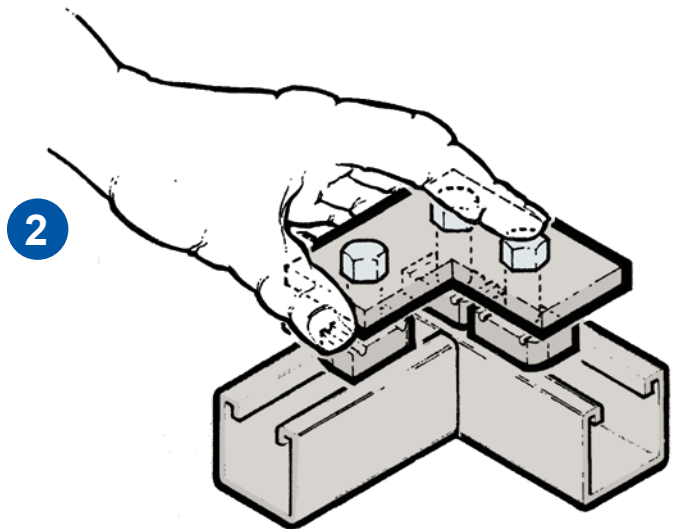


**1** One at a time, bolts are inserted through the fitting's holes, held in place with a finger while an appropriate **Channel Nut without spring** is engaged to each bolt with one-and-a half turns, (just enough to keep them attached).

**Use caution to select bolt lengths that will not bottom out in channel when fully tightened.**

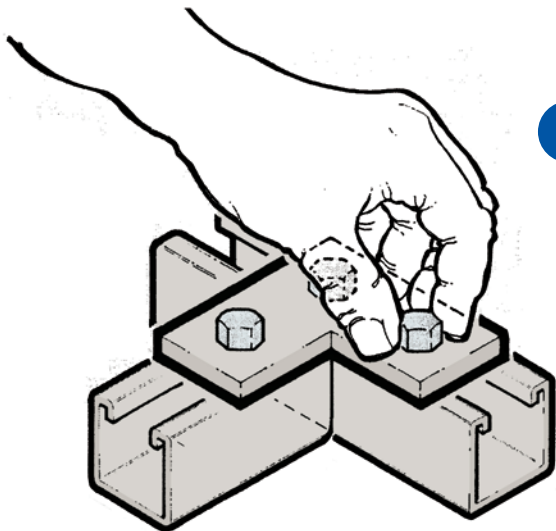
When the entire fitting (in at least one plane) is fitted with Channel Nuts and bolts, align Channel Nut direction (s) to correspond with channel arrangement; place fitting into position.

**Channel Nuts without springs** should hang below, clear of channel's in-turned edges prior to tightening the bolts.

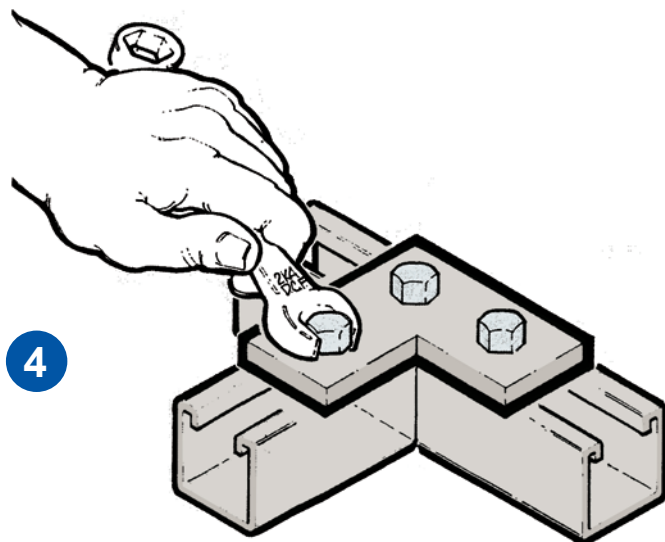


**2** All Channel Nut/bolts are finger tightened by pressing down on bolt head, and turning clock-wise. Inserting fingers into channel to align is not required.

**Do not tighten by grasping bolt with fingers under the head.** If the bolt is grasped in this fashion, this will lift Channel Nut, allowing it to turn and "look" falsely into place between channel's in-turned lips.



Adjust fitting to final position; check to make sure **Channel Nuts** are still installed correctly with pyramid enhanced grooves engaging the channel's in-turned edges. Finally, fasteners are wrench tightened.

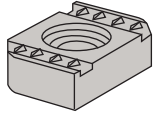
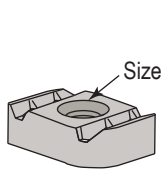


**4**



## Channel Nut Without Spring

For most channel sizes



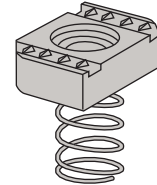
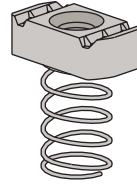
Wide body on W1-10WS, W2-12WS, W5-10WS & B5-12WS only

| SPECIFYING Brand & Part No. | Use | Size     | Thickness   | DISCONTINUED Brands & Part No. |               |          |
|-----------------------------|-----|----------|-------------|--------------------------------|---------------|----------|
|                             |     |          |             | VERSABAR                       | FLORIDA STRUT |          |
| <b>WESANCO</b>              |     |          |             |                                |               |          |
| W2-0832WS                   |     | #8-32    | 1/4" (6mm)  | VN1010-0832                    | --            |          |
| W2-1032WS                   |     | #10-32   |             | VN10101032                     | --            |          |
| W2-1024WS                   |     | #10-24   |             | VN10101024                     | --            |          |
| W2-4WS                      |     | 1/4"-20  | 3/8" (10mm) | VN1025 ***                     | CNN20025      |          |
| W2-5WS                      |     | 5/16"-18 |             | VN1031                         | CNN30031      |          |
| W2-6WS                      |     | 3/8"-16  |             | VN1037 ***                     | CNN30037      |          |
| W2-7WS                      |     | 7/16"-14 |             | VN1044                         | --            |          |
| W5-8WS                      | ■   | 1/2"-13  |             | VN4050 *                       | CNN30050      |          |
| W5-10WS                     | ■   | 5/8"-11  |             | VN4062                         | CNN30062      |          |
| B5-12WS                     |     | 3/4"-10  |             | VN4075                         | CNN30075      |          |
| W2-10WS                     | ●   | 5/8"-11  |             | 7/16" (11mm)                   | --            | --       |
| W2-8WS                      | ●   | 1/2"-13  |             | 1/2" (13mm)                    | VN1050 **     | CNN40050 |
| W1-10WS                     | ◆   | 5/8"-11  |             |                                | VN1062 *      | CNN40062 |
| W2-12WS                     | ●   | 3/4"-10  | VN1075      |                                | CNN40075      |          |

■ = Use With 1 3/16" Channel  
 ● = Not For Use With 1 3/16", and 7/8"  
 ◆ = Use With 2-7/16", 2-1/2", and 3-1/4"  
 \* Available in Stainless  
 \*\* Available in Stainless and Aluminum  
 \*\*\* Available in Stainless, Aluminum and Hot-Dipped Galv.

## Channel Nut with Regular Spring

For 1-3/8" (35mm) & 1-5/8" (41mm) channel



Wide body on W2-10, W2-12, & W2-14 only

| SPECIFYING Brand & Part No. | Size     | Thickness   | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------|-------------|--------------------------------|---------------|
|                             |          |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |          |             |                                |               |
| W2-0832                     | #8-32    | 1/4" (6mm)  | VSN10100832                    | --            |
| W2-1032                     | #10-32   |             | VSN10101032                    | --            |
| W2-1024                     | #10-24   |             | VSN10101024                    | --            |
| W2-4                        | 1/4"-20  |             | VSN1025 **                     | CNR20025      |
| B2-5025                     | 5/16"-18 |             | --                             | CNR20031      |
| B2-6025                     | 3/8"-16  |             | --                             | CNR20037      |
| W2-5                        | 5/16"-18 | 3/8" (10mm) | VSN1031                        | CNR30031      |
| W2-6                        | 3/8"-16  |             | VSN1037 **                     | CNR30037      |
| W2-7                        | 7/16"-14 |             | VSN1044                        | CNR30050      |
| W2-8                        | 1/2"-13  | 1/2" (13mm) | VSN1050 **                     | CNR40050      |
| W2-10                       | 5/8"-11  |             | VSN1062 *                      | CNR40062      |
| W2-12                       | 3/4"-10  |             | VSN1075                        | CNR40075      |
| W2-14                       | 7/8"-9   |             | --                             | CNR40087      |

\* Available in Stainless  
 \*\* Available in Stainless, Aluminum and Hot-Dipped Galv.



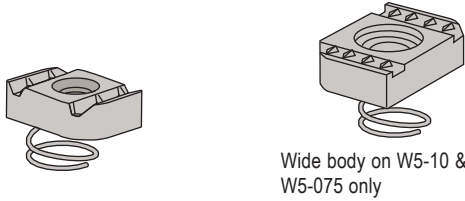
# Channel Nuts



Standard Finish: Electro Galvanized (EG)

## Channel Nut with Short Spring

For  $\frac{13}{16}$ ",  $\frac{7}{8}$ ", & 1" channel



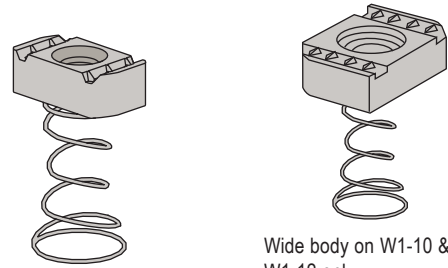
Wide body on W5-10 & W5-075 only

| SPECIFYING Brand & Part No. | Size     | Thickness   | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------|-------------|--------------------------------|---------------|
|                             |          |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W5-0832      | #8-32    | 1/4" (6mm)  | VSN40100832                    | W5-0832       |
| W5-1032                     | #10-32   |             | VSN40101032                    | W5-1032       |
| W5-1024                     | #10-24   |             | VSN40101024                    | W5-1024       |
| W5-4                        | 1/4"-20  |             | VSN4025 *                      | CNS20025      |
| B5-6025                     | 3/8"-16  |             | --                             | CNS20037      |
| W5-5                        | 5/16"-18 | 3/8" (10mm) | VSN4031                        | CNS30031      |
| W5-6                        | 3/8"-16  |             | VSN4037 *                      | CNS30037      |
| W5-044                      | 7/16"-14 |             | VSN4044                        | --            |
| W5-8                        | 1/2"-13  |             | VSN4050 *                      | CNS30050      |
| W5-10                       | 5/8"-11  |             | VSN4062                        | CNS30062      |
| W5-075                      | 3/4"-10  |             | VSN4075                        | --            |

\* Available in Stainless

## Channel Nut with Long Spring

Fits 2-1/2" (64mm) thru 3-1/4" (83mm) channel



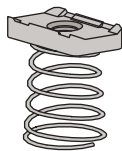
Wide body on W1-10 & W1-12 only

| SPECIFYING Brand & Part No. | Size     | Thickness    | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------|--------------|--------------------------------|---------------|
|                             |          |              | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W1-0832      | #8-32    | 1/4" (6mm)   | VSN30100832 *                  | --            |
| W1-1032                     | #10-32   |              | VSN30101024 *                  | --            |
| W1-1024                     | #10-24   |              | VSN30101032 *                  | --            |
| W1-4                        | 1/4"-20  | 3/8" (10mm)  | VSN3025                        | CNL20025      |
| W1-5                        | 5/16"-18 |              | VSN3031                        | --            |
| W1-6                        | 3/8"-16  |              | VSN3037                        | CNL30037      |
| W1-7                        | 7/16"-14 | 7/16" (11mm) | VSN3044                        | --            |
| W1-10                       | 5/8"-11  |              | VSN3062                        | W1-10         |
| W1-12                       | 3/4"-10  |              | VSN3075                        | W1-12         |
| W1-8                        | 1/2"-13  | 1/2" (13mm)  | VSN3050                        | CNL40050      |

\* = Special Order

## Mini Nut with Standard Spring

Use with  $\frac{13}{16}$ " x  $\frac{13}{16}$ " (21mm x 21mm) Channel



| SPECIFYING Brand & Part No. | Size      | Thickness    | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------|--------------|--------------------------------|---------------|
|                             |           |              | VERSABAR                       | FLORIDA STRUT |
| W6-0836                     | #8 - 36   | 0.150" (4mm) | --                             | --            |
| W6-0832                     | #8 - 32   |              | --                             | --            |
| W6-1032                     | #10 - 32  |              | --                             | --            |
| W6-1024                     | #10 - 24  |              | --                             | --            |
| W6-4                        | 1/4" - 20 |              | --                             | --            |

## Mini Nut with Short Spring

Use with  $\frac{13}{16}$ " x  $\frac{13}{32}$ " (21mm x 10mm) Channel

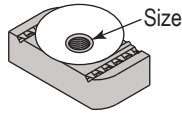


| SPECIFYING Brand & Part No. | Size      | Thickness    | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------|--------------|--------------------------------|---------------|
|                             |           |              | VERSABAR                       | FLORIDA STRUT |
| W7-0836                     | #8 - 36   | 0.150" (4mm) | --                             | --            |
| W7-0832                     | #8 - 32   |              | --                             | --            |
| W7-1032                     | #10 - 32  |              | --                             | --            |
| W7-1024                     | #10 - 24  |              | --                             | --            |
| W7-4                        | 1/4" - 20 |              | --                             | --            |



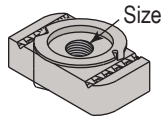
Introduction  
Channel  
Channel Nuts & Hardware  
General Fittings  
Brackets  
Beam Clamps  
Pipe & Conduit Supports  
Electrical Fittings  
Spring Steel  
Concrete Inserts  
Roofing Supports  
Fiberglass System  
Technical Data

## Channel Nut with Cone



| SPECIFYING Brand & Part No. | Size      | Thickness   | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------|-------------|--------------------------------|---------------|
|                             |           |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W2-4CN       | 1/4" - 20 | 1/4" (6mm)  | --                             | --            |
| W2-6CN                      | 3/8" - 16 | 3/8" (10mm) | --                             | --            |
| W2-8CN                      | 1/2" - 13 | 1/2" (13mm) | --                             | --            |

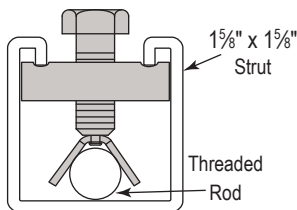
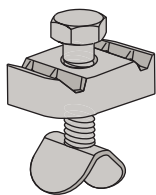
## Twist-Nut Channel Nut



| SPECIFYING Brand & Part No. | Size      | Thickness   | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------|-------------|--------------------------------|---------------|
|                             |           |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W2-4TN       | 1/4" - 20 | 1/4" (6mm)  | --                             | --            |
| W2-6TN                      | 3/8" - 16 | 3/8" (10mm) | --                             | --            |
| W2-8TN                      | 1/2" - 13 | 1/2" (13mm) | --                             | --            |

## Seismic Bracing Rod Stiffener

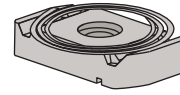
Use with 3/8", 1/2" & 5/8" Threaded Rod  
Available in Stainless Steel 316 & 304



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> B2486        | VN1RS                          | B2486         |

Available in Stainless Steel 316 & 304

## Channel Nut Top Spring

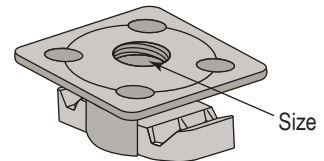


| SPECIFYING Brand & Part No. | Use | Size       | Thickness   | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----|------------|-------------|--------------------------------|---------------|
|                             |     |            |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W2-0832TL    |     | #8 - 32    | 1/4" (6mm)  | W2-0832TL                      | --            |
| W2-1032TL                   |     | #10 - 32   |             | W2-1032TL                      | --            |
| W2-1024TL                   |     | #10 - 24   |             | W2-1024TL                      | --            |
| W2-4TL                      |     | 1/4" - 20  | 3/8" (10mm) | CNT20025                       | VSN1025TMS    |
| W2-5TL                      |     | 5/16" - 18 |             | W2-5TL                         | VSN1031TMS    |
| W2-6TL                      |     | 3/8" - 16  |             | CNT30037                       | VSN1037TMS    |
| W5-8TL                      |     | 1/2" - 13  |             | CNT30050                       | --            |
| W2-8TL                      | c   | 1/2" - 13  |             | 1/2" (13mm)                    | CNT40050      |

c = Not for use with 1 3/16" Channel

## Combination Washer Channel Nut

- Replaces channel nut and square washer with single piece



| SPECIFYING Brand & Part No. | Size      | Nut Thickness | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------|---------------|--------------------------------|---------------|
|                             |           |               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> B2-4NW       | 1/4" - 20 | 1/4" (6mm)    | VF1101CN25                     | --            |
| B2-6NW                      | 3/8" - 16 | 3/8" (10mm)   | VF1101CN37                     | --            |
| B2-8NW                      | 1/2" - 13 |               | VF1101CN50                     | --            |

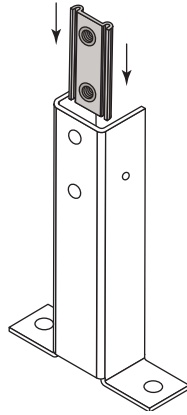
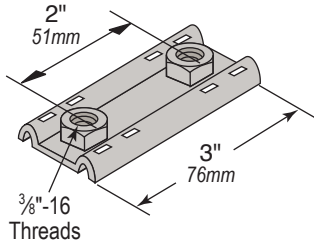


# Channel Nuts



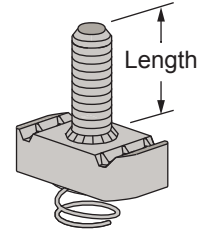
Standard Finish: Electro Galvanized (EG)

## Double Conveyor Adjusting Nut



## Stud Nut with Short Spring

Use with  $\frac{13}{16}$ " ,  $\frac{7}{8}$ " & 1"



\* Remember that you lose  $\frac{1}{4}$ " (6mm) useable stud length when nut is inserted into channel

| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                                |               |
| <b>W6608</b>                | VF5803GRS                      | --            |

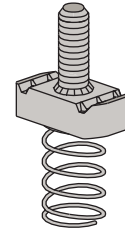
| SPECIFYING Brand & Part No. | Size                                    | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---|--------------------------------|---------------|
|                             |   | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |   |                                |               |
| <b>W5-3SN</b>               | $\frac{1}{2}$ "-13 x 1- $\frac{3}{8}$ " | --                             | --            |

For Applications In other Channels Consult Factory.

## Stud Nut with Spring

Use with 1- $\frac{5}{8}$ " & 1- $\frac{3}{8}$ " Channel

\* Remember that you lose  $\frac{1}{4}$ " (6mm) useable stud length when nut is inserted into channel



| SPECIFYING Brand & Part No. | Size                                      | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---|--------------------------------|---------------|
|                             |   | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |   |                                |               |
| <b>W4-075SN</b>             | $\frac{1}{4}$ " - 20 x $\frac{3}{4}$ "    | SSN25075                       | -             |
| <b>W4-087SN</b>             | $\frac{1}{4}$ " - 20 x $\frac{7}{8}$ "    | SSN25087                       | CND25087      |
| <b>W4-100SN</b>             | $\frac{1}{4}$ " - 20 x 1"                 | SSN25100                       | -             |
| <b>W4-112SN</b>             | $\frac{1}{4}$ " - 20 x 1- $\frac{1}{8}$ " | SSN25127                       | -             |
| <b>W4-125SN</b>             | $\frac{1}{4}$ " - 20 x 1- $\frac{1}{4}$ " | SSN25125                       | -             |
| <b>W4-137SN</b>             | $\frac{1}{4}$ " - 20 x 1- $\frac{3}{8}$ " | SSN25137                       | -             |
| <b>W4-150SN</b>             | $\frac{1}{4}$ " - 20 x 1- $\frac{1}{2}$ " | SSN25150                       | -             |
| <b>W4-175SN</b>             | $\frac{1}{4}$ " - 20 x 1- $\frac{3}{4}$ " | SSN25175                       | -             |
| <b>W4-200SN</b>             | $\frac{1}{4}$ " - 20 x 2"                 | SSN25200                       | -             |
| <b>W5-075SN</b>             | $\frac{5}{16}$ "-18 x $\frac{3}{4}$ "     | SSN31075                       | -             |
| <b>W5-100SN</b>             | $\frac{5}{16}$ "-18 x 1"                  | SSN31100                       | -             |
| <b>W5-125SN</b>             | $\frac{5}{16}$ "-18 x 1- $\frac{1}{4}$ "  | SSN31125                       | -             |
| <b>W5-150SN</b>             | $\frac{5}{16}$ "-18 x 1- $\frac{1}{2}$ "  | SSN31150                       | -             |
| <b>W5-175SN</b>             | $\frac{5}{16}$ "-18 x 1- $\frac{3}{4}$ "  | SSN31175                       | -             |
| <b>W5-200SN</b>             | $\frac{5}{16}$ "-18 x 2"                  | SSN31200                       | -             |
| <b>W6-075SN</b>             | $\frac{3}{8}$ " - 16 x $\frac{3}{4}$ "    | SSN37075                       | -             |
| <b>W6-087SN</b>             | $\frac{3}{8}$ " - 16 x $\frac{7}{8}$ "    | SSN37087                       | CND37112      |
| <b>W6-100SN</b>             | $\frac{3}{8}$ " - 16 x 1"                 | SSN37100                       | -             |
| <b>W6-112SN</b>             | $\frac{3}{8}$ " - 16 x 1- $\frac{1}{8}$ " | SSN37112                       | -             |
| <b>W6-125SN</b>             | $\frac{3}{8}$ " - 16 x 1- $\frac{1}{4}$ " | SSN37125                       | CND37125      |
| <b>W6-137SN</b>             | $\frac{3}{8}$ " - 16 x 1- $\frac{3}{8}$ " | SSN37137                       | -             |
| <b>W6-150SN</b>             | $\frac{3}{8}$ " - 16 x 1- $\frac{1}{2}$ " | SSN37150                       | -             |

| SPECIFYING Brand & Part No. | Size                                      | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---|--------------------------------|---------------|
|                             |   | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |   |                                |               |
| <b>W6-162SN</b>             | $\frac{3}{8}$ " - 16 x 1- $\frac{5}{8}$ " | SSN37162                       | CND37162      |
| <b>W6-175SN</b>             | $\frac{3}{8}$ " - 16 x 1- $\frac{3}{4}$ " | SSN37175                       | -             |
| <b>W6-187SN</b>             | $\frac{3}{8}$ " - 16 x 1- $\frac{7}{8}$ " | SSN37187                       | -             |
| <b>W6-200SN</b>             | $\frac{3}{8}$ " - 16 x 2"                 | SSN37200                       | -             |
| <b>W6-212SN</b>             | $\frac{3}{8}$ " - 16 x 2- $\frac{1}{8}$ " | SSN37212                       | -             |
| <b>W6-225SN</b>             | $\frac{3}{8}$ " - 16 x 2- $\frac{1}{4}$ " | SSN37225                       | -             |
| <b>W6-250SN</b>             | $\frac{3}{8}$ " - 16 x 2- $\frac{1}{2}$ " | SSN37250                       | -             |
| <b>W8-062SN</b>             | $\frac{1}{2}$ " - 13 x $\frac{5}{8}$ "    | SSN50062                       | -             |
| <b>W8-087SN</b>             | $\frac{1}{2}$ " - 13 x $\frac{7}{8}$ "    | SSN50087                       | -             |
| <b>W8-112SN</b>             | $\frac{1}{2}$ " - 13 x 1- $\frac{1}{8}$ " | SSN50112                       | -             |
| <b>W8-137SN</b>             | $\frac{1}{2}$ " - 13 x 1- $\frac{3}{8}$ " | SSN50137                       | -             |
| <b>W8-162SN</b>             | $\frac{1}{2}$ " - 13 x 1- $\frac{5}{8}$ " | SSN50162                       | -             |
| <b>W8-187SN</b>             | $\frac{1}{2}$ " - 13 x 1- $\frac{7}{8}$ " | SSN50187                       | -             |
| <b>W8-212SN</b>             | $\frac{1}{2}$ " - 13 x 2- $\frac{1}{8}$ " | SSN50212                       | -             |
| <b>W8-225SN</b>             | $\frac{1}{2}$ " - 13 x 2- $\frac{1}{4}$ " | SSN50225                       | -             |
| <b>W8-250SN</b>             | $\frac{1}{2}$ " - 13 x 2- $\frac{1}{2}$ " | SSN50250                       | -             |
| <b>W8-275SN</b>             | $\frac{1}{2}$ " - 13 x 2- $\frac{3}{4}$ " | SSN50275                       | -             |
| <b>W8-300SN</b>             | $\frac{1}{2}$ " - 13 x 3"                 | SSN50300                       | -             |
| <b>W8-325SN</b>             | $\frac{1}{2}$ " - 13 x 3- $\frac{1}{4}$ " | SSN50325                       | -             |
| <b>W10-112SN</b>            | $\frac{5}{8}$ " - 11 x 1- $\frac{1}{8}$ " | -                              | -             |
| <b>W10-137SN</b>            | $\frac{5}{8}$ " - 11 x 1- $\frac{3}{8}$ " | -                              | -             |

Available in stainless steel and custom stud lengths

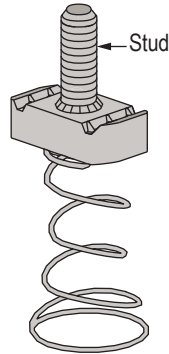




### Stud Nut with Long Spring

Use with 2-7/16" & 3-1/4" Channel

\* Remember that you lose 1/4" (6mm) useable stud length when nut is inserted into channel



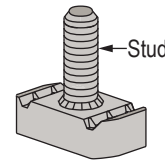
| SPECIFYING Brand & Part No. | Size               | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------|--------------------------------|---------------|
|                             |                    | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                    |                                |               |
| W4-087SNL                   | 1/4" - 20 x 7/8"   | -                              | -             |
| W4-112SNL                   | 1/4" - 20 x 1-1/8" | -                              | -             |
| W4-137SNL                   | 1/4" - 20 x 1-3/8" | -                              | -             |

| SPECIFYING Brand & Part No. | Size               | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------|--------------------------------|---------------|
|                             |                    | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                    |                                |               |
| W6-087SNL                   | 3/8" - 16 x 7/8"   | -                              | -             |
| W6-112SNL                   | 3/8" - 16 x 1-1/8" | -                              | -             |
| W6-137SNL                   | 3/8" - 16 x 1-3/8" | -                              | -             |
| W6-162SNL                   | 3/8" - 16 x 1-5/8" | -                              | -             |
| W6-187SNL                   | 3/8" - 16 x 1-7/8" | -                              | -             |
| W6-212SNL                   | 3/8" - 16 x 2-1/8" | -                              | -             |
| W8-112SNL                   | 1/2" - 13 x 1-1/8" | -                              | -             |
| W8-137SNL                   | 1/2" - 13 x 1-3/8" | -                              | -             |
| W8-162SNL                   | 1/2" - 13 x 1-5/8" | -                              | -             |
| W8-187SNL                   | 1/2" - 13 x 1-7/8" | -                              | -             |
| W8-212SNL                   | 1/2" - 13 x 2-1/8" | -                              | -             |
| W10-112SNL                  | 5/8" - 11 x 1-1/8" | -                              | -             |
| W10-137SNL                  | 5/8" - 11 x 1-3/8" | -                              | -             |

### Stud Nut without Spring

Use with 1-5/8" & 1-3/8" Channel

\* Remember that you lose 1/4" (6mm) useable stud length when nut is inserted into channel



| SPECIFYING Brand & Part No. | Size                | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------------|--------------------------------|---------------|
|                             |                     | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                     |                                |               |
| W4-075SNWS                  | 1/4" - 20 x 3/4"    | SN25075                        | -             |
| W4-087SNWS                  | 1/4" - 20 x 7/8"    | SN25087                        | -             |
| W4-100SNWS                  | 1/4" - 20 x 1"      | SN25100                        | -             |
| W4-112SNWS                  | 1/4" - 20 x 1-1/8"  | SN25127                        | -             |
| W4-125SNWS                  | 1/4" - 20 x 1-1/4"  | SN25125                        | -             |
| W4-137SNWS                  | 1/4" - 20 x 1-3/8"  | SN25137                        | -             |
| W4-150SNWS                  | 1/4" - 20 x 1-1/2"  | SN25150                        | -             |
| W4-175SNWS                  | 1/4" - 20 x 1-3/4"  | SN25175                        | -             |
| W4-200SNWS                  | 1/4" - 20 x 2"      | SN25200                        | -             |
| W5-075SNWS                  | 5/16" - 18 x 3/4"   | SN31075                        | -             |
| W5-100SNWS                  | 5/16" - 18 x 1"     | SN31100                        | -             |
| W5-125SNWS                  | 5/16" - 18 x 1-1/4" | SN31125                        | -             |
| W5-150SNWS                  | 5/16" - 18 x 1-1/2" | SN31150                        | -             |
| W5-175SNWS                  | 5/16" - 18 x 1-3/4" | SN31175                        | -             |
| W5-200SNWS                  | 5/16" - 18 x 2"     | SN31200                        | -             |
| W6-075SNWS                  | 3/8" - 16 x 3/4"    | SN37075                        | -             |
| W6-087SNWS                  | 3/8" - 16 x 7/8"    | SN37087                        | -             |
| W6-100SNWS                  | 3/8" - 16 x 1"      | SN37100                        | -             |
| W6-0112SNWS                 | 3/8" - 16 x 1-1/8"  | SN37112                        | -             |
| W6-125SNWS                  | 3/8" - 16 x 1-1/4"  | SN37125                        | -             |
| W6-137SNWS                  | 3/8" - 16 x 1-3/8"  | SN37137                        | -             |
| W6-150SNWS                  | 3/8" - 16 x 1-1/2"  | SN37150                        | -             |
| W6-162SNWS                  | 3/8" - 16 x 1-5/8"  | SN37162                        | -             |

| SPECIFYING Brand & Part No. | Size               | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------|--------------------------------|---------------|
|                             |                    | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                    |                                |               |
| W6-175SNWS                  | 3/8" - 16 x 1-3/4" | SN37175                        | -             |
| W6-187SNWS                  | 3/8" - 16 x 1-7/8" | SN37187                        | -             |
| W6-200SNWS                  | 3/8" - 16 x 2"     | SN37200                        | -             |
| W6-212SNWS                  | 3/8" - 16 x 2-1/8" | SN37212                        | -             |
| W6-225SNWS                  | 3/8" - 16 x 2-1/4" | SN37225                        | -             |
| W6-250SNWS                  | 3/8" - 16 x 2-1/2" | SN37250                        | -             |
| W8-062SNWS                  | 1/2" - 13 x 5/8"   | SN50062                        | -             |
| W8-087SNWS                  | 1/2" - 13 x 7/8"   | SN50087                        | -             |
| W8-112SNWS                  | 1/2" - 13 x 1-1/8" | SN50112                        | -             |
| W8-137SNWS                  | 1/2" - 13 x 1-3/8" | SN50137                        | -             |
| W8-162SNWS                  | 1/2" - 13 x 1-5/8" | SN50162                        | -             |
| W8-187SNWS                  | 1/2" - 13 x 1-7/8" | SN50187                        | -             |
| W8-212SNWS                  | 1/2" - 13 x 2-1/8" | SN50212                        | -             |
| W8-225SNWS                  | 1/2" - 13 x 2-1/4" | SN50225                        | -             |
| W8-250SNWS                  | 1/2" - 13 x 2-1/2" | SN50250                        | -             |
| W8-275SNWS                  | 1/2" - 13 x 2-3/4" | SN50275                        | -             |
| W8-300SNWS                  | 1/2" - 13 x 3"     | SN50300                        | -             |
| W8-325SNWS                  | 1/2" - 13 x 3-1/4" | SN50325                        | -             |
| W10-112SNWS                 | 5/8" - 11 x 1-1/8" | -                              | -             |
| W10-137SNWS                 | 5/8" - 11 x 1-3/8" | -                              | -             |

Available in stainless steel and custom stud lengths

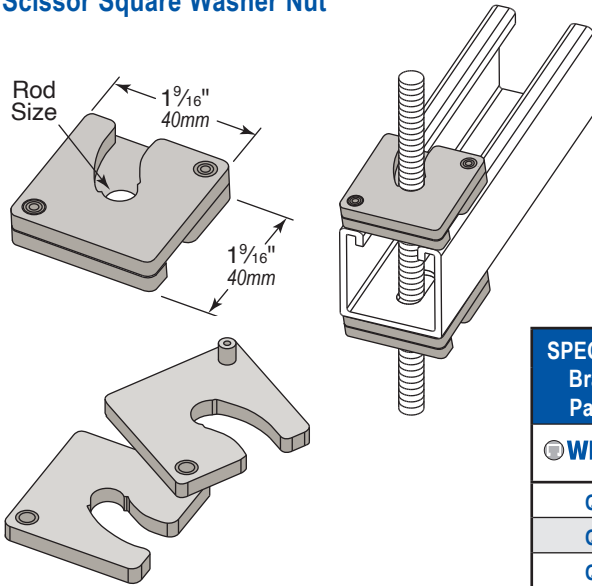


# Channel Nuts & Hardware



Standard Finish: Electro Galvanized (EG)

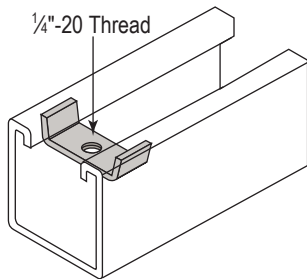
## Scissor Square Washer Nut



- Unique scissor action closes at any desired position on the threaded rod.
- Ideal for Retro-Fit applications where existing rod ends are not accessible.
- Functions as a hex nut and square washer combination which reduces the number of components needed for installation.

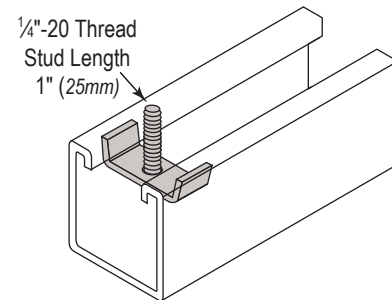
| SPECIFYING Brand & Part No. | Rod Size    | Thread Size UNC | Design Load Lbs | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-----------------|-----------------|--------------------------------|---------------|
|                             |             |                 |                 | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                 |                 |                                |               |
| <b>QN25</b>                 | ¼" (6.4mm)  | ¼" -20          | 150 (0.67 kN)   | VF1101QN25                     | --            |
| <b>QN37</b>                 | ⅜" (9.5mm)  | ⅜" -16          | 590 (2.62 kN)   | VF1101QN37                     | --            |
| <b>QN50</b>                 | ½" (12.7mm) | ½" -13          | 850 (03.78 kN)  | VF1101QN50                     | --            |

## Light Duty Channel Nut



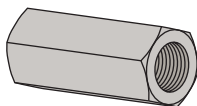
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                                |               |
| <b>W6461</b>                | VN1                            | --            |

## Light Duty Stud Nut



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                                |               |
| <b>W4-100LDSN</b>           | VN1ST                          | --            |

## Rod Coupling



| SPECIFYING Brand & Part No. | Hole Size | Length      | Hex Size       | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------|-------------|----------------|--------------------------------|---------------|
|                             |           |             |                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |           |             |                |                                |               |
| <b>W7134</b>                | ¼" - 20   | ⅞" (22mm)   | ⅜" (10mm)      | VTRC25                         | RC0025        |
| <b>W7134A</b>               | ⅝" - 18   |             | -              | VTRC31                         | --            |
| <b>W7135</b>                | ⅜" - 16   | 1-¾" (44mm) | ⅞" (14mm)      | VTRC37                         | RC0037        |
| <b>W7136</b>                | ½" - 13   |             | 1 1/16" (18mm) | VTRC50                         | RC0050        |
| <b>W7137</b>                | ⅝" - 11   | 2-½" (54mm) | -              | VTRC62                         | --            |
| <b>W7138</b>                | ¾" - 10   | 2-¼" (57mm) | -              | VTRC75                         | --            |

\* Available in stainless steel



Introduction

Channel

Channel Nuts & Hardware

General Fittings

Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

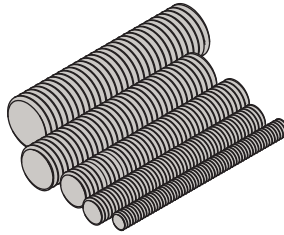
Concrete Inserts

Rooftop Supports

Fiberglass System

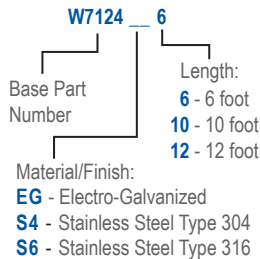
Technical Data

## Threaded Rod



| Nominal Rod Dia. - UNC | Max. Safe Load @ Temp. 650°F (343°C) |
|------------------------|--------------------------------------|
| 1/4" - 20              | 240 lbs (1.07kN)                     |
| 3/8" - 16              | 730 lbs (3.25kN)                     |
| 1/2" - 13              | 1,350 lbs (6.01kN)                   |
| 5/8" - 11              | 2,160 lbs (9.61kN)                   |
| 3/4" - 10              | 3,230 lbs (14.37kN)                  |

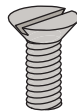
\* Loading data for piping applications based on MSS SP-58 for rod conforming to ASTM A575 & A576



| SPECIFYING Brand & Part No. | Nominal Rod Dia. - UNC | Length      | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------------------|-------------|--------------------------------|---------------|
|                             |                        |             | VERSABAR                       | FLORIDA STRUT |
| WESANCO W7124_6             | 1/4" - 20              | 6' (1.83m)  | VTR256                         | --            |
| W7124_10                    |                        | 10' (3.05m) | VTR2510                        | --            |
| W7124_12                    |                        | 12' (3.66m) | VTR2512                        | --            |
| W7125_6                     | 3/8" - 16              | 6' (1.83m)  | VTR376                         | --            |
| W7125_10                    |                        | 10' (3.05m) | VTR3710                        | --            |
| W7125_12                    |                        | 12' (3.66m) | VTR3712                        | --            |
| W7126_6                     | 1/2" - 13              | 6' (1.83m)  | VTR506                         | --            |
| W7126_10                    |                        | 10' (3.05m) | VTR5010                        | --            |
| W7126_12                    |                        | 12' (3.66m) | VTR5012                        | --            |
| W7127_6                     | 5/8" - 11              | 6' (1.83m)  | VTR626                         | --            |
| W7127_10                    |                        | 10' (3.05m) | VTR6210                        | --            |
| W7127_12                    |                        | 12' (3.66m) | VTR6212                        | --            |
| W7128_10                    | 3/4" - 10              | 10' (3.05m) | VTR7510                        | --            |

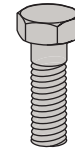
\* Available in stainless steel Type 304 (S4) or Type 316 (S6)

## Flathead Machine Screws



| SPECIFYING Brand & Part No. | Size UNC      | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|--------------------------------|---------------|
|                             |               | VERSABAR                       | FLORIDA STRUT |
| WESANCO FLMS25X062          | 1/4" x 5/8"   | 25X62FLMS                      | --            |
| FLMS25X075                  | 1/4" x 3/4"   | 25X75FLMS                      | --            |
| FLMS31X100                  | 5/16" x 1"    | --                             | --            |
| FLMS37X100                  | 3/8" x 1"     | 37X1FLMS                       | --            |
| FLMS37X200                  | 3/8" x 2"     | 37X2FLMS                       | --            |
| FLMS37X225                  | 3/8" x 2-1/4" | 37X225FLMS                     | --            |
| FLMS37X250                  | 3/8" x 2-1/2" | 37X250FLMS                     | --            |

## Hex Head Cap Screw



| SPECIFYING Brand & Part No. | Size UNC      | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|--------------------------------|---------------|
|                             |               | VERSABAR                       | FLORIDA STRUT |
| WESANCO HHCS25X050          | 1/4" x 1/2"   | 25X50HHCS                      | --            |
| HHCS25X075                  | 1/4" x 3/4"   | 25X75HHCS                      | HCS2507       |
| HHCS25X100                  | 1/4" x 1"     | 25X1HHCS                       | HCS2510       |
| HHCS25X125                  | 1/4" x 1-1/4" | 25X125HHCS                     | HCS2512       |
| HHCS25X150                  | 1/4" x 1-1/2" | 25X150HHCS                     | HCS2515       |
| HHCS37X075                  | 3/8" x 3/4"   | 37X75HHCS                      | HCS3707       |
| HHCS37X100                  | 3/8" x 1"     | 37X1HHCS                       | HCS3710       |
| HHCS37X125                  | 3/8" x 1-1/4" | 37X125HHCS                     | HCS3712       |
| HHCS37X150                  | 3/8" x 1-1/2" | 37X150HHCS                     | HCS3715       |
| HHCS37X200                  | 3/8" x 2"     | 37X200HHCS                     | HCS3720       |
| HHCS37X225                  | 3/8" x 2-1/4" | 37X225HHCS                     | --            |
| HHCS37X250                  | 3/8" x 2-1/2" | 37X250HHCS                     | --            |
| HHCS50X031                  | 1/2" x 15/16" | 50X31HHCS                      | --            |
| HHCS50X100                  | 1/2" x 1"     | --                             | HCS5010       |
| HHCS50X125                  | 1/2" x 1-1/4" | 50X125HHCS                     | HCS5012       |
| HHCS50X150                  | 1/2" x 1-1/2" | 50X150HHCS                     | HCS5015       |
| HHCS50X175                  | 1/2" x 1-3/4" | 50X175HHCS                     | HCS5017       |
| HHCS50X200                  | 1/2" x 2"     | 50X200HHCS                     | HCS5020       |
| HHCS50X225                  | 1/2" x 2-1/4" | 50X225HHCS                     | --            |
| HHCS50X250                  | 1/2" x 2-1/2" | 50X250HHCS                     | --            |
| HHCS50X350                  | 1/2" x 3-1/2" | 50X350HHCS                     | --            |

\* Available in stainless steel

## Roundhead Machine Screws

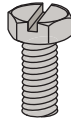


| SPECIFYING Brand & Part No. | Size UNC       | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|--------------------------------|---------------|
|                             |                | VERSABAR                       | FLORIDA STRUT |
| WESANCO RHMS25X050          | 1/4" x 1/2"    | 25X50RHMS                      | --            |
| RHMS25X075                  | 1/4" x 3/4"    | 25X75RHMS                      | W7470         |
| RHMS25X100                  | 1/4" x 1"      | 25X1RHMS                       | W7471         |
| RHMS25X125                  | 1/4" x 1-1/4"  | 25X125RHMS                     | W7472         |
| RHMS31X100                  | 5/16" x 1"     | 31X1RHMS                       | W7473         |
| RHMS31X125                  | 5/16" x 1-1/4" | 31X125RHMS                     | W7474         |
| RHMS31X150                  | 5/16" x 1-1/2" | 31X150RHMS                     | W7475         |
| RHMS37X100                  | 3/8" x 1"      | 37X1RHMS                       | W7476         |
| RHMS37X125                  | 3/8" x 1-1/4"  | 37X125RHMS                     | W7477         |
| RHMS37X150                  | 3/8" x 1-1/2"  | 37X150RHMS                     | W7478         |
| RHMS37X250                  | 3/8" x 2-1/2"  | 37X250RHMS                     | W7479         |



Standard Finish: Electro Galvanized (EG)

## Slotted Indented Hex Machine Screw



| SPECIFYING Brand & Part No. | Size UNC      | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|--------------------------------|---------------|
|                             |               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |               |                                |               |
| SLHHCS25X075                | 1/4" x 3/4"   | 25X75SLHHCS                    | --            |
| SLHHCS31X100                | 5/16" x 1"    | 31X1SLHHCS                     | --            |
| SLHHCS37X125                | 3/8" x 1-1/4" | 37X125SLHHCS                   | --            |

## Hex Nut



| SPECIFYING Brand & Part No. | Size UNC | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------|--------------------------------|---------------|
|                             |          | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |          |                                |               |
| HN25                        | 1/4"     | 25HN                           | HN0025        |
| HN31                        | 5/16"    | 31HN                           | --            |
| HN37                        | 3/8"     | 37HN                           | HN0037        |
| HN50                        | 1/2"     | 50FN                           | HN0050        |
| HN62                        | 5/8"     | 62FN                           | HN0062        |
| HN75                        | 3/4"     | --                             | HN0075        |

\* Available in stainless steel

## Square Nuts



| SPECIFYING Brand & Part No. | Size UNC | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------|--------------------------------|---------------|
|                             |          | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |          |                                |               |
| SQN25                       | 1/4"     | 25SQN                          | --            |
| SQN31                       | 5/16"    | 31SQN                          | --            |
| SQN37                       | 3/8"     | 37SQN                          | --            |
| SQN50                       | 1/2"     | 50SQN                          | --            |
| SQN62                       | 5/8"     | 62SQN                          | --            |

## Keyp Nuts



| SPECIFYING Brand & Part No. | Size UNC | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------|--------------------------------|---------------|
|                             |          | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |          |                                |               |
| KN25                        | 1/4"     | --                             | --            |
| KN31                        | 5/16"    | --                             | --            |
| KN38                        | 3/8"     | --                             | --            |

## Flat Washer



| SPECIFYING Brand & Part No. | Size  | OD            | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------|---------------|--------------------------------|---------------|
|                             |       |               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |       |               |                                |               |
| FW25                        | 1/4"  | 3/4" (19mm)   | 25FW                           | FW0025        |
| FW31                        | 5/16" |               | 31FW                           | --            |
| FW37                        | 3/8"  | 1" (25mm)     | 37FW                           | FW0037        |
| FW50                        | 1/2"  | 1-3/8" (35mm) | 50FW                           | FW0050        |
| FW62                        | 5/8"  | 1-3/4" (44mm) | 62FW                           | FW0062        |
| FW75                        | 3/4"  | 2" (51mm)     | --                             | FW0075        |

\* Available in stainless steel

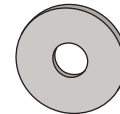
## Lock Washers



| SPECIFYING Brand & Part No. | Size  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------|--------------------------------|---------------|
|                             |       | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |       |                                |               |
| LW25                        | 1/4"  | 25LW                           | FLW0025       |
| LW31                        | 5/16" | 31LW                           | --            |
| LW37                        | 3/8"  | 37LW                           | FLW0037       |
| LW50                        | 1/2"  | 50LW                           | FLW0050       |
| LW62                        | 5/8"  | 62LW                           | FLW0062       |

\* Available in stainless steel

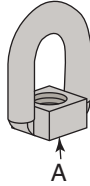
## Fender Washers



| SPECIFYING Brand & Part No. | Size           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|--------------------------------|---------------|
|                             |                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                |                                |               |
| FEN25                       | 1/4" x 1-1/4"  | FEN25                          | --            |
| FEN31                       | 5/16" x 1-1/4" | FEN31                          | --            |
| FEN37                       | 3/8" x 1-1/2"  | FEN37                          | --            |
| FEN50                       | 1/2" x 1-1/2"  | FEN50                          | --            |



## Swivel Female



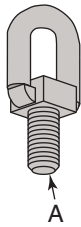
| SPECIFYING Brand & Part No. | A Size  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------|--------------------------------|---------------|
|                             |         | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |         |                                |               |
| W6905                       | 3/8"-16 | VXE237                         | SW100037      |
| W6906                       | 1/2"-13 | VXE250                         | SW100050      |

## Swivel Female - Female



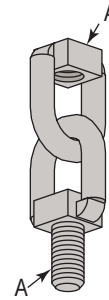
| SPECIFYING Brand & Part No. | A Size  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------|--------------------------------|---------------|
|                             |         | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |         |                                |               |
| W6915                       | 3/8"-16 | VXE137                         | SW120037      |
| W6916                       | 1/2"-13 | VXE150                         | SW120050      |

## Swivel Male



| SPECIFYING Brand & Part No. | A Size  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------|--------------------------------|---------------|
|                             |         | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |         |                                |               |
| W6910                       | 3/8"-16 | VXE437                         | SW110037      |
| W6911                       | 1/2"-13 | VXE450                         | SW110050      |

## Swivel Male - Female



| SPECIFYING Brand & Part No. | A Size  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------|--------------------------------|---------------|
|                             |         | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |         |                                |               |
| W6920                       | 3/8"-16 | VXE337                         | SW130037      |
| W6921                       | 1/2"-13 | VXE350                         | SW130050      |



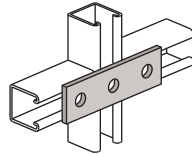


# General Fittings



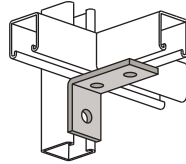
## Flat Plate Fittings

Pages 82 - 87



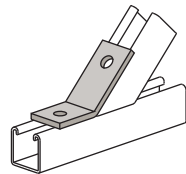
## 90° Angle Fittings

Pages 87 - 92



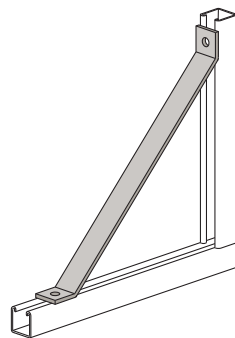
## Angle Fittings

Pages 93 - 94



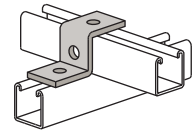
## Brace Fittings

Pages 95 - 97



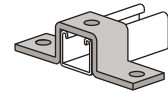
## “Z” Fittings

Pages 98 - 99



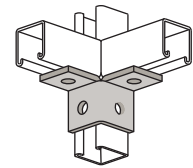
## “U” Shape Fittings

Pages 99 - 103



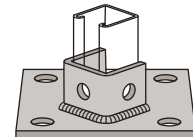
## Wing Fittings

Pages 104 - 107



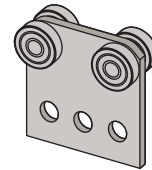
## Post Bases

Pages 107 - 110



## Trolley

Pages 111 - 112

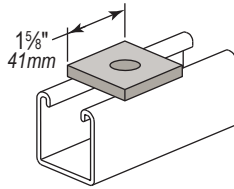


| Fittings Specifications  |                                    |  |
|--------------------------|------------------------------------|--|
| Material                 | ASTM                               | ASTM Description   |
| Hot Rolled Plate         | A 575, A 1011, A 1018, A 576, A638 | Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.                          |
| Fitting: Steel           | A 366, A 36                        | Steel carbon, cold rolled sheet, commercial quality structural steel.                                |
| Strip Steel: Pipe Clamps | A 569                              | Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.                          |
| Stainless Steel          | A 240 TYPE 304                     | Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel. |
|                          | A 240 TYPE 316                     |  |
| Aluminum                 | B 221                              | Aluminum alloy extruded bar, rod, wire, shape and tube.  |

| Fitting Finish Specifications        |  |
|--------------------------------------|--|
| Finish                               | Description  |
| Paint-Green Powder Coating           | A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.   |
| Electroplated                        | Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.  |
| Mill-Galvanized (Pre-Galvanized)     | Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present. |
| Hot Dip Galvanized After Fabrication | Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications. ASTM A 123, ASTM A153, or ASTM A386.                       |
| Special Coatings                     | Other commercially available finishes can be supplied per specification when required to protect applications.   |

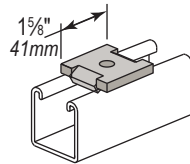
See page 23 for Material or Finish ordering codes for part numbers.

## Square Washer without Channel Guide



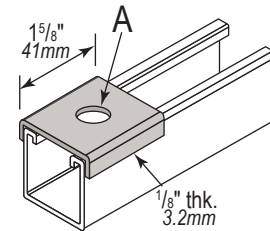
| SPECIFYING Brand & Part No. | Bolt Size     | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|--------------------------------|---------------|
|                             |               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |               |                                |               |
| W5051                       | 1/4" (6.4mm)  | VF110125                       | F100025       |
| W5052                       | 5/16" (7.9mm) | VF110125                       | F090031       |
| W5053                       | 3/8" (9.5mm)  | VF110137                       | F110037       |
| W5054                       | 1/2" (12.7mm) | VF110150                       | F120050       |
| W5055                       | 5/8" (15.9mm) | VF110162                       | F130062       |
| W5056                       | 3/4" (19.1mm) | VF110175                       | F140075       |
| W5057                       | 7/8" (22.2mm) | VF110187                       | F150087       |

## Square Washer with Channel Guide



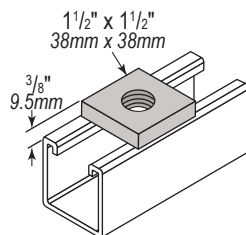
| SPECIFYING Brand & Part No. | Bolt Size     | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|--------------------------------|---------------|
|                             |               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |               |                                |               |
| W5002                       | 1/4" (6.4mm)  | VF1101N25                      | F200025       |
| W5002                       | 5/16" (7.9mm) | VF1101N25                      | W5002         |
| W5003                       | 3/8" (9.5mm)  | VF1101N37                      | F210037       |
| W5004                       | 1/2" (12.7mm) | VF1101N50                      | F220050       |
| W5005                       | 5/8" (15.9mm) | VF1101N62                      | F230062       |
| W5006                       | 3/4" (19.1mm) | VF1101N75                      | F240075       |

## Square Washer with Clip on Guide



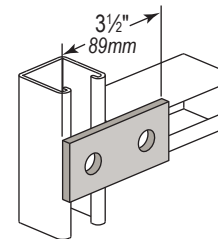
| SPECIFYING Brand & Part No. | Bolt Size        | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------------|--------------------------------|---------------|
|                             |                  | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                  |                                |               |
| W5052U                      | 1/4"-20 (6.4mm)  | VF110225                       | --            |
| W5053U                      | 3/8"-16 (9.5mm)  | VF110237                       | --            |
| W5054U                      | 1/2"-13 (12.7mm) | VF110250                       | --            |
| W5055U                      | 5/8"-11 (15.9mm) | VF110262                       | --            |
| W5056U                      | 3/4"-10 (19.1mm) | VF110275                       | --            |

## Square Washer with Threaded Hole



| SPECIFYING Brand & Part No. | Bolt Size        | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------------|--------------------------------|---------------|
|                             |                  | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                  |                                |               |
| W5053T                      | 3/8"-16 (9.5mm)  | VF1107A                        | --            |
| W5054T                      | 1/2"-13 (12.7mm) | VF1107B                        | --            |
| W5055T                      | 5/8"-11 (15.9mm) | VF1107C                        | --            |

## 2-Hole Splice Plate



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                                |               |
| W5007                       | VF1201                         | F30           |

Hole Diameter: 5/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)

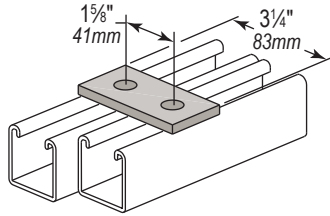


# Flat Plate Fittings



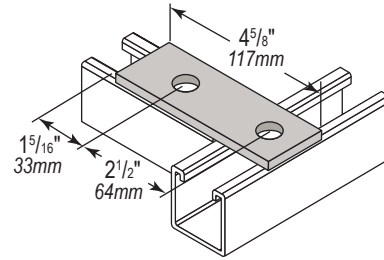
Standard Finish: Electro Galvanized (EG)

## 2-Hole Parallel Splice Plate



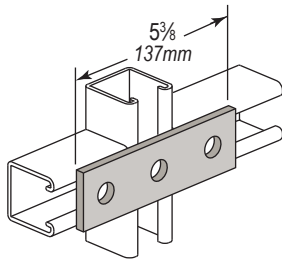
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5013                       |  | VF1204                         | F34           |

## 2-Hole Perpendicular Splice Plate



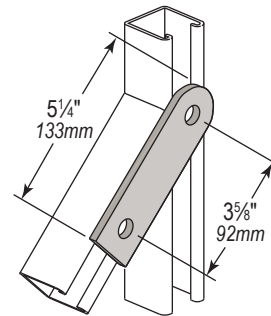
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5015                       |  | VF1211                         | --            |

## 3-Hole Splice Plate



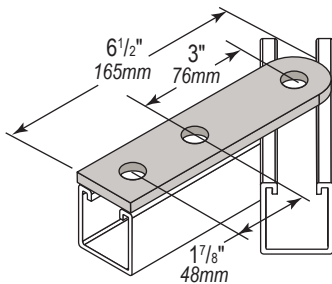
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5008                       |  | VF1302                         | F31           |

## 2-Hole Swivel Plate



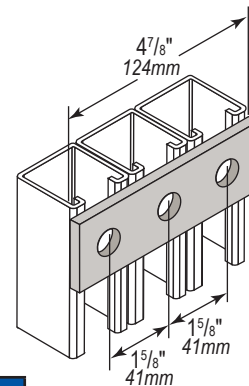
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5011                       |  | VF1203                         | F40           |

## 3-Hole Swivel Brace Connector



| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5012                       |  | VF1310                         | F41           |

## 3-Hole Flat Plate



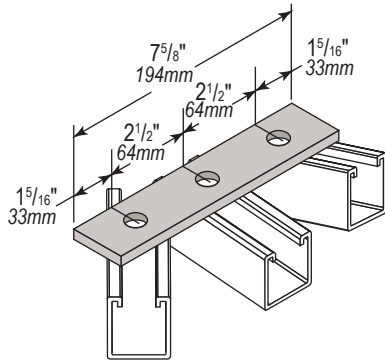
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5016                       |  | VF1306                         | --            |

Hole Diameter: 5/16" (14mm); Hole Spacing - From End: 1 5/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)



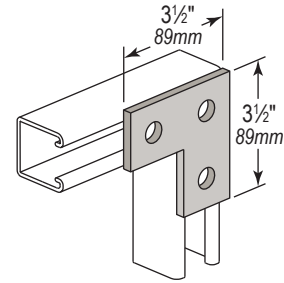
Standard Finish: Electro Galvanized (EG)

### 3-Hole Flat Plate



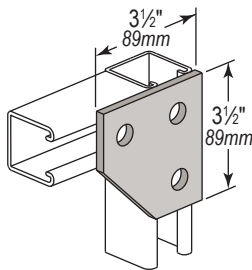
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5017                       | VF1316                         | --            |

### 3-Hole Flat Angle Plate



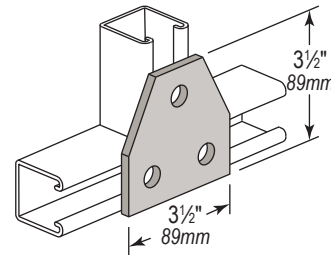
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5021                       | VF1301                         | F50           |

### 3-Hole Corner Gusset Plate



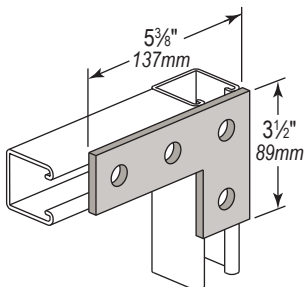
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5030                       | VF1304                         | F52           |

### 3-Hole Tee Gusset Plate



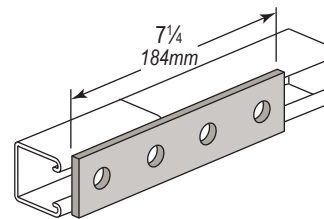
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5031                       | VF1305                         | F61           |

### 4-Hole Extended Flat Angle



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5025                       | VF1406A                        | F51           |

### 4-Hole Splice plate



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5009                       | VF1402                         | F32           |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)

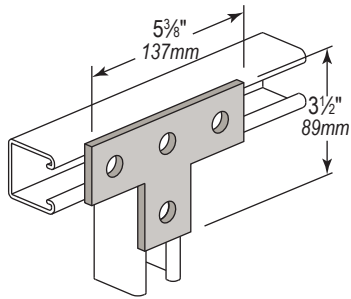


# Flat Plate Fittings



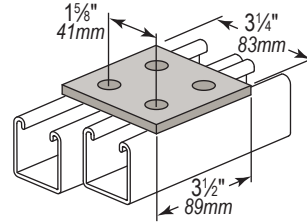
Standard Finish: Electro Galvanized (EG)

## 4-Hole Tee Plate



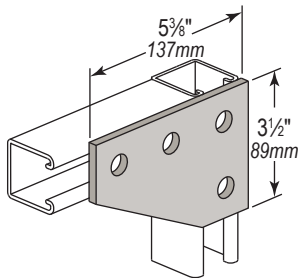
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5022                       |  | VF1401                         | F60           |

## 4-Hole Parallel Splice Plate



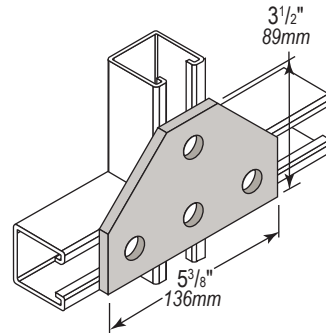
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5014                       |  | VF1412                         | F35           |

## 4-Hole Corner Plate



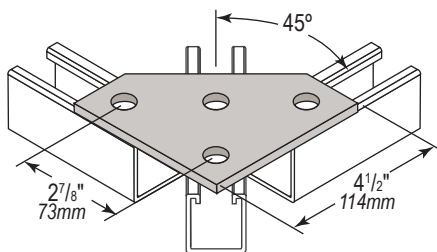
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5024                       |  | VF1406                         | F53           |

## 4-Hole Triangle Flat Plate



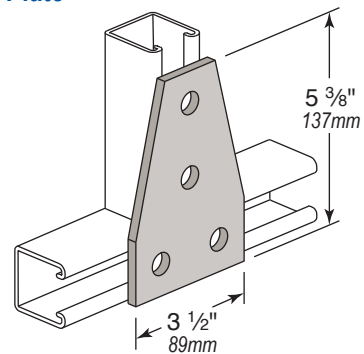
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5018                       |  | VF1403                         | --            |

## 4-Hole Double Brace Connector



| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5019                       |  | VF1411                         | --            |

## 4-Hole Gusset Plate



| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5026                       |  | VF1404                         | F62           |

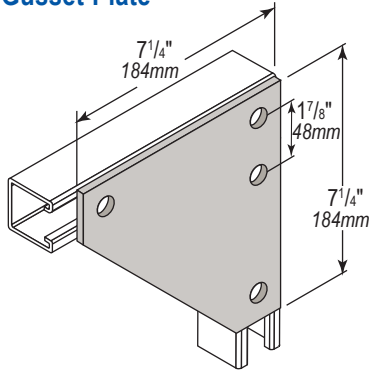
Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)





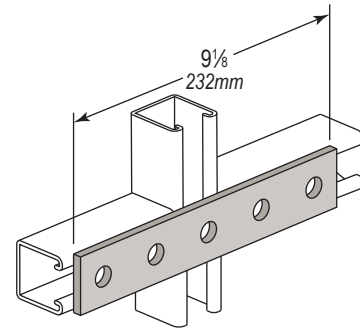
Standard Finish: Electro Galvanized (EG)

## 4-Hole Corner Gusset Plate



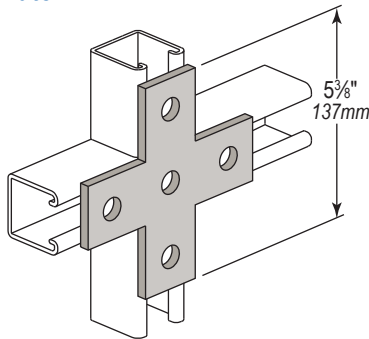
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5036                       | VF1419                         | --            |

## 5-Hole Splice Plate



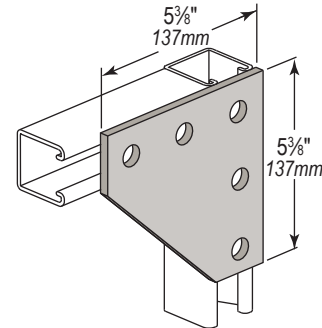
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5010                       | VF1506                         | F33           |

## 5-Hole Cross Plate



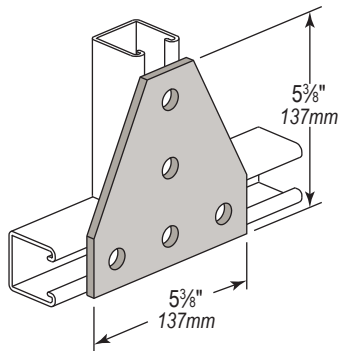
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5023                       | VF1501                         | F70           |

## 5-Hole Corner Gusset Plate



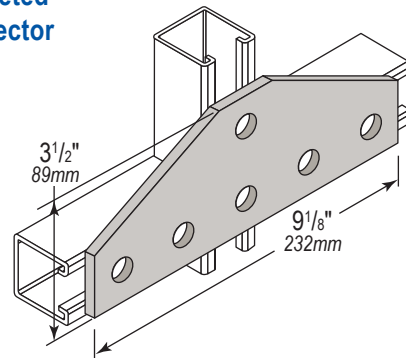
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5028                       | VF1505                         | F54           |

## 5-Hole Gusset Plate



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5027                       | VF1504                         | F63           |

## 6-Hole Gusseted Cross Connector



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5037                       | VF1602                         | --            |

Hole Diameter: 5/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)

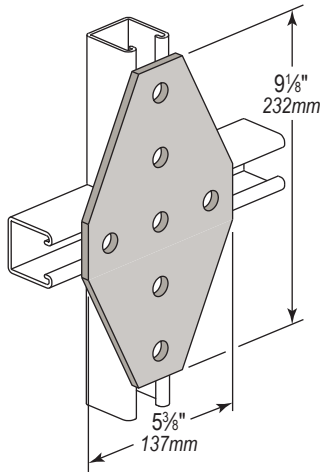


# Flat Plate & 90° Angle Fittings



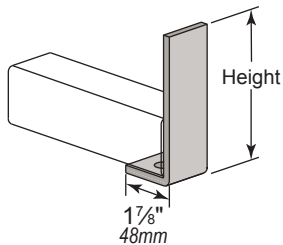
Standard Finish: Electro Galvanized (EG)

## 7-Hole Cross Gusset Plate



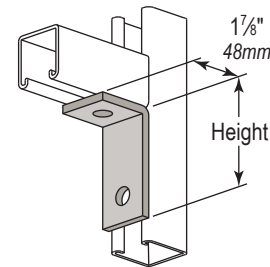
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| WESANCO                     | VERSABAR                       | FLORIDA STRUT |
| W5029                       | VF1704                         | F71           |

## 1-Hole Angle Washer



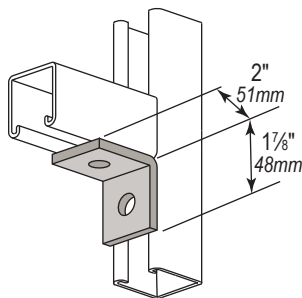
| SPECIFYING Brand & Part No. | Height        | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|--------------------------------|---------------|
| WESANCO                     |               | VERSABAR                       | FLORIDA STRUT |
| W5160                       | 3-7/8" (98mm) | VF2121                         | L70           |

## 2-Hole Corner Angle Washer



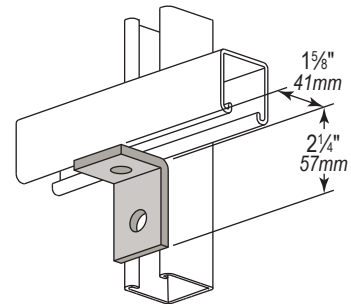
| SPECIFYING Brand & Part No. | Height        | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|--------------------------------|---------------|
| WESANCO                     |               | VERSABAR                       | FLORIDA STRUT |
| W5142                       | 3" (76mm)     | VF2205A                        | L14           |
| W5143                       | 3-1/2" (89mm) | VF2205B                        | L15           |
| W5144                       | 4" (102mm)    | VF2205C                        | L16           |

## 2-Hole End Connector



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| WESANCO                     | VERSABAR                       | FLORIDA STRUT |
| W5103                       | VF2201                         | L11           |

## 2-Hole Rack Connector



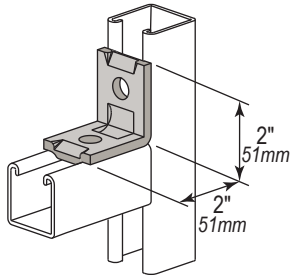
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| WESANCO                     | VERSABAR                       | FLORIDA STRUT |
| W5102                       | VF2202                         | L20           |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



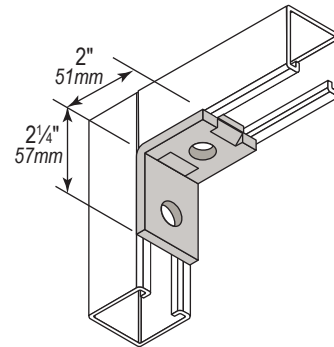
Standard Finish: Electro Galvanized (EG)

## 2-Hole Rack Connector with Two End Notches



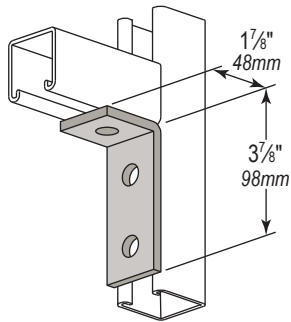
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5104</b>                | VF2204N                        | L10           |

## 2-Hole Rack Connector with One End Notch



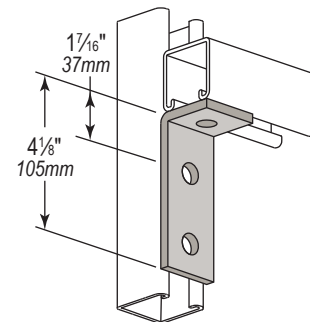
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5101</b>                | VF2209N                        | --            |

## 3-Hole End Connector



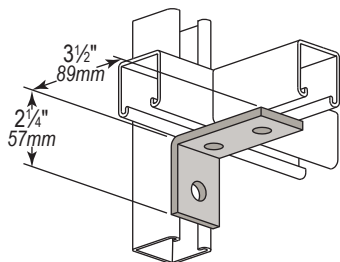
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5113</b>                | VF2305                         | L12           |

## 3-Hole Column Stringer Connector



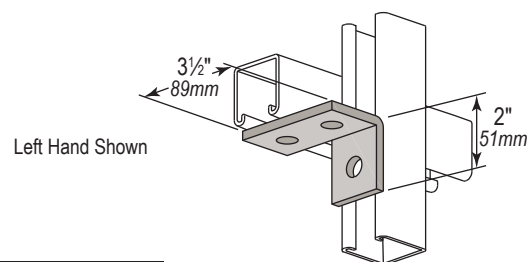
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5112</b>                | VF2304                         | L21           |

## 3-Hole Rack Corner Angle



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5115</b>                | VF2308                         | L30           |

## 3-Hole Angle Connector, Left or Right Hand



| SPECIFYING Brand & Part No. | Description  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------|--------------------------------|---------------|
| <b>WESANCO</b>              |              | VERSABAR                       | FLORIDA STRUT |
| <b>W5136</b>                | Left Handed  | VF2315L                        | --            |
| <b>W5135</b>                | Right Handed | VF2315R                        | --            |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)

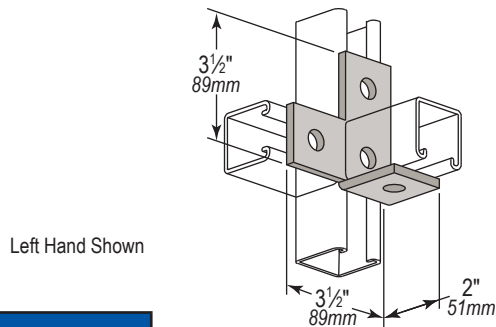


# 90° Angle Fittings



Standard Finish: Electro Galvanized (EG)

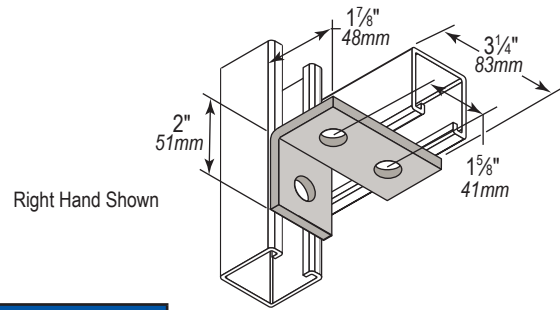
## 4-Hole Angle Connector, Left or Right Hand



Left Hand Shown

| SPECIFYING<br>Brand & Part No. | Description  | DISCONTINUED Brands & Part No. |               |
|--------------------------------|--------------|--------------------------------|---------------|
|                                |              | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>                 |              |                                |               |
| W5140                          | Left Handed  | VF2402L                        | L51           |
| W5141                          | Right Handed | VF2402R                        | L52           |

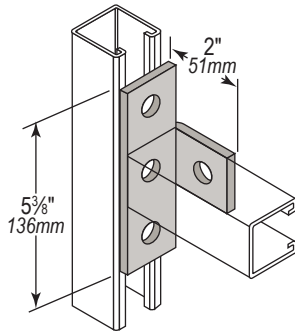
## 3-Hole Angle Connector, Left or Right Hand



Right Hand Shown

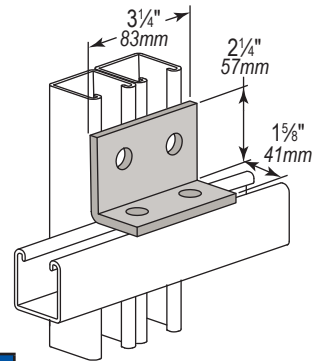
| SPECIFYING<br>Brand & Part No. | Description | DISCONTINUED Brands & Part No. |               |
|--------------------------------|-------------|--------------------------------|---------------|
|                                |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>                 |             |                                |               |
| W5138                          | Left Hand   | VF2301L                        | --            |
| W5139                          | Right Hand  | VF2301R                        | --            |

## 4-Hole Offset Corner Angle



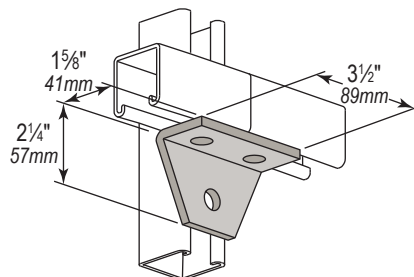
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|--------------------------------|--------------------------------|---------------|
|                                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>                 |                                |               |
| W5137                          | VF2401                         | L50           |

## 4-Hole, Two Column Strut Splice Connector



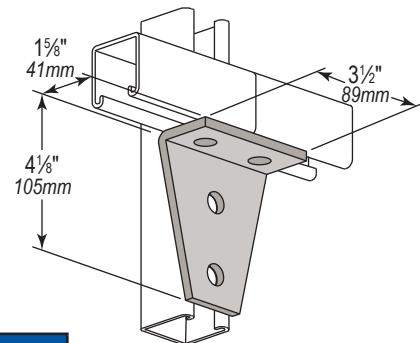
| SPECIFYING<br>Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|--------------------------------|--------------------------------|---------------|
|                                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>                 |                                |               |
| W5126                          | VF2417                         | --            |

## 3-Hole Rack Splice Connector



| SPECIFYING<br>Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|--------------------------------|--------------------------------|---------------|
|                                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>                 |                                |               |
| W5110                          | VF2310                         | L22           |

## 4-Hole Rack Splice Connector



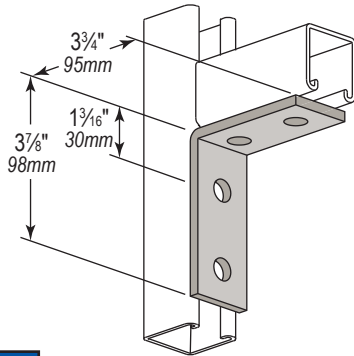
| SPECIFYING<br>Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|--------------------------------|--------------------------------|---------------|
|                                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>                 |                                |               |
| W5109                          | VF2410                         | L24           |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)



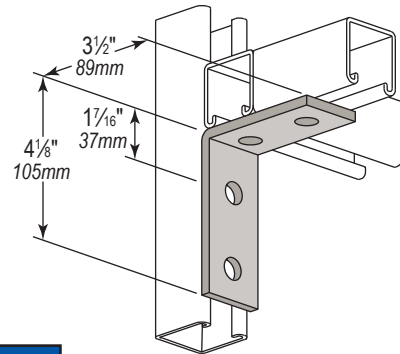
Standard Finish: Electro Galvanized (EG)

## 4-Hole Corner Connector



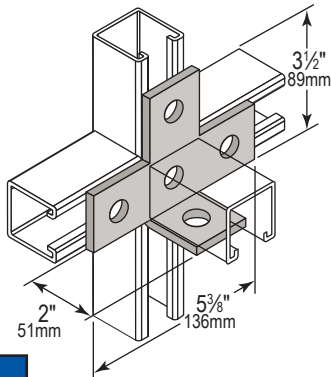
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5125                       | VF2403                         | L13           |

## 4-Hole Rack Corner Angle



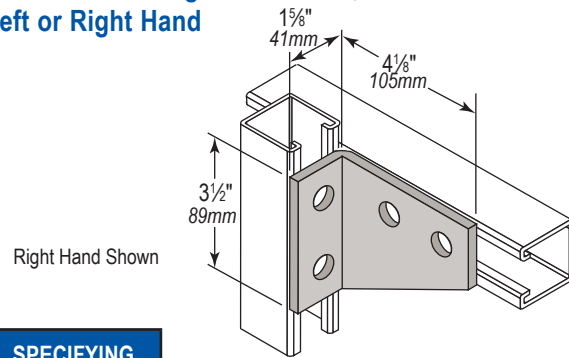
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5123                       | VF2407                         | L31           |

## 5-Hole Cross With 90° Angle Leg



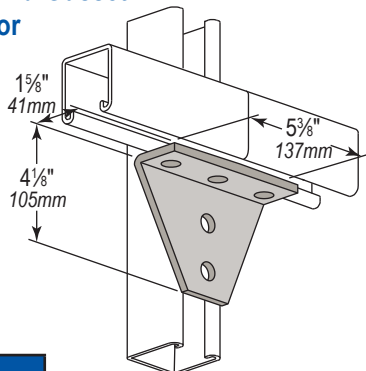
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5152                       | VF2506                         | --            |

## 4-Hole Post/Stringer Connector, Left or Right Hand



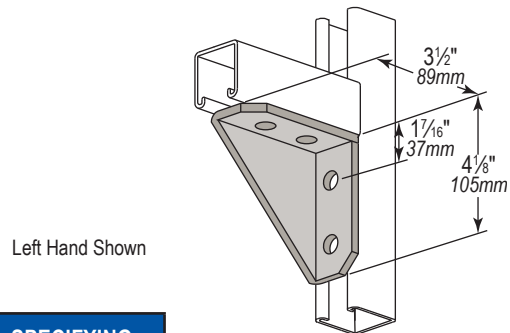
| SPECIFYING Brand & Part No. | Description | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
|                             |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              | Left Hand   | VF2411L                        | --            |
| <b>WESANCO</b>              | Right Hand  | VF2411R                        | --            |

## 5-Hole Right Hand Gusset Angle Connector



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5118                       | VF2512                         | L23           |

## 4-Hole Gusset Corner Angle, Left or Right Hand



| SPECIFYING Brand & Part No. | Description | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
|                             |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              | Left Hand   | VF2426L                        | L35           |
| <b>WESANCO</b>              | Right Hand  | VF2426R                        | L36           |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)



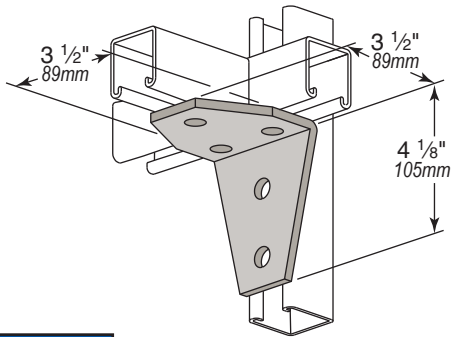


# 90° Angle Fittings



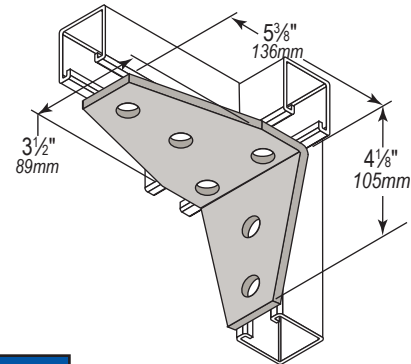
Standard Finish: Electro Galvanized (EG)

## 5-Hole Corner Splice Connector



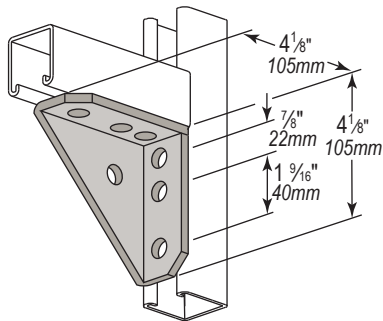
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5117                       |  | VF2510                         | L33           |

## 6-Hole, 3-Way Mid Column Connector



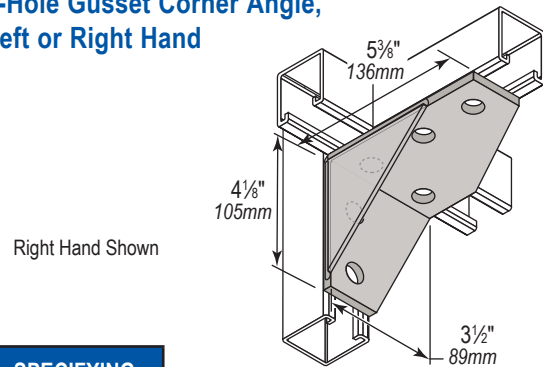
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5154                       |  | VF2604                         | --            |

## Universal Corner Angle



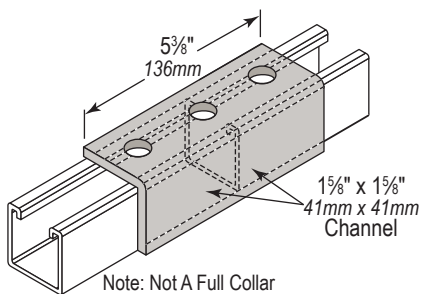
| SPECIFYING Brand & Part No. |             | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
| WESANCO                     | Description | VERSABAR                       | FLORIDA STRUT |
| W5124                       | Plain       | VF2708                         | L34           |
| W5124W                      | Welded      | VF2708W                        | L34W          |

## 6-Hole Gusset Corner Angle, Left or Right Hand



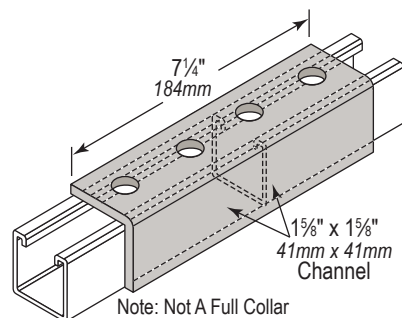
| SPECIFYING Brand & Part No. |             | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
| WESANCO                     | Description | VERSABAR                       | FLORIDA STRUT |
| W5156                       | Left Hand   | VF2703L                        | --            |
| W5157                       | Right Hand  | VF2703R                        | --            |

## 3-Hole Right Angle End Splice



| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5158                       |  | VF2320                         | --            |

## 4-Hole Right Angle End Splice



| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5159                       |  | VF2418                         | --            |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)



Introduction

Channel

Channel Nuts & Hardware

General Fittings

Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

Concrete Inserts

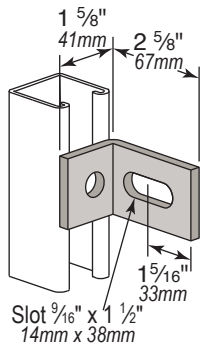
Rooftop Supports

Fiberglass System

Technical Data

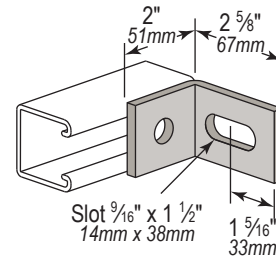
Standard Finish: Electro Galvanized (EG)

## 2-Hole Vertical Adjustment Angle



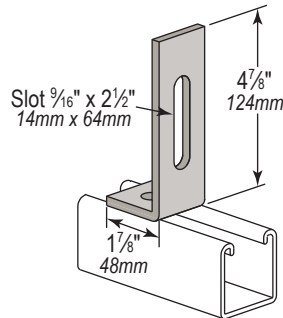
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5106                       | VF2228A                        | L40           |

## 2-Hole Horizontal Adjustment Angle



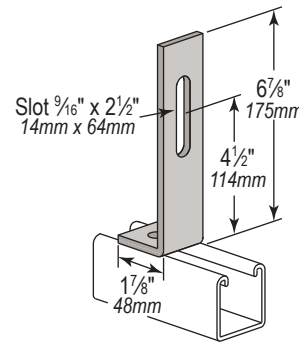
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5105                       | VF2217                         | --            |

## 2-Hole Adjustment Angle



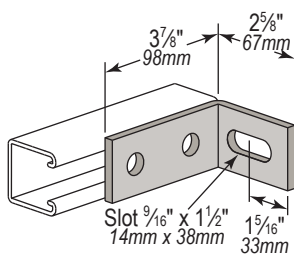
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5107                       | VF2208                         | L41           |

## 2-Hole Adjustment Angle



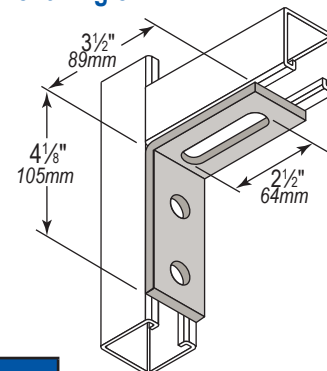
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5108                       | VF2208A                        | L42           |

## 3-Hole Adjustment Angle



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5111                       | VF2507                         | L43           |

## 3-Hole Adjustment Angle



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5153                       | VF2511                         | --            |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)

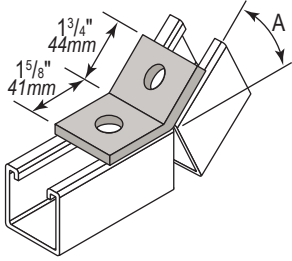


# Angle Fittings



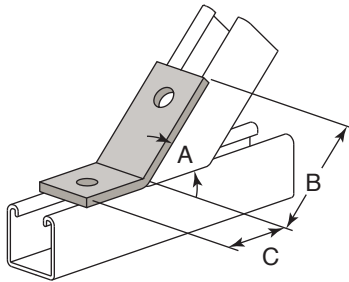
Standard Finish: Electro Galvanized (EG)

## 2-Hole Small Open Angle



| SPECIFYING Brand & Part No. | A       | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------|--------------------------------|---------------|
|                             |         | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |         |                                |               |
| W5470-825                   | 82-1/2° | VF32488250                     | -             |
| W5470-75                    | 75°     | VF324875                       | -             |
| W5470-675                   | 67-1/2° | VF32486750                     | -             |
| W5470-60                    | 60°     | VF324860                       | -             |
| W5470-525                   | 52-1/2° | VF324852150                    | -             |
| W5470-45                    | 45°     | VF324845                       | -             |
| W5470-375                   | 37-1/2° | VF32483750                     | -             |
| W5470-30                    | 30°     | VF324830                       | -             |
| W5470-225                   | 22-1/2° | VF32482250                     | -             |
| W5470-15                    | 15°     | VF324815                       | --            |
| W5470-075                   | 7-1/2°  | VF3248750                      | --            |

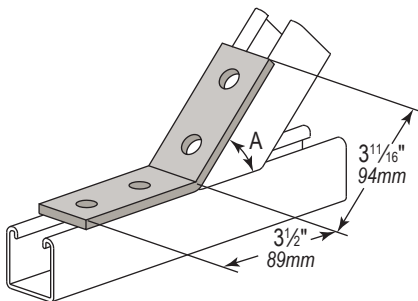
## 2-Hole Open Angle



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

| SPECIFYING Brand & Part No. | A       | B               | C              | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------|-----------------|----------------|--------------------------------|---------------|
|                             |         |                 |                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |         |                 |                |                                |               |
| W5420                       | 82-1/2° | 3 1/2" (89mm)   | 1 3/4" (44mm)  | VF32078250                     | -             |
| W5421                       | 75°     | 3 1/2" (89mm)   | 1 3/4" (44mm)  | VF320875                       | -             |
| W5422                       | 67-1/2° | 3 1/2" (89mm)   | 1 3/4" (44mm)  | VF32106750                     | -             |
| W5423                       | 60°     | 3 3/8" (86mm)   | 1 7/8" (48mm)  | VF320660                       | --            |
| W5424                       | 52-1/2° | 3 1/4" (83mm)   | 2 1/16" (52mm) | VF32115250                     | -             |
| W5425                       | 45°     | 3" (76mm)       | 2 5/16" (59mm) | VF230345                       | L60           |
| W5426                       | 37-1/2° | 3 1/2" (89mm)   | 1 3/4" (44mm)  | VF32123750                     | -             |
| W5427                       | 30°     | 3 1/4" (83mm)   | 2 1/16" (52mm) | VF321430                       | -             |
| W5428                       | 22-1/2° | 3 5/16" (100mm) | 2 1/16" (52mm) | VF32152250                     | -             |
| W5429                       | 15°     | 3 5/16" (100mm) | 2 1/16" (52mm) | VF321615                       | -             |
| W5430                       | 7-1/2°  | 3 5/16" (100mm) | 2 1/16" (52mm) | VF3217750                      | -             |

## 4-Hole Open Angle



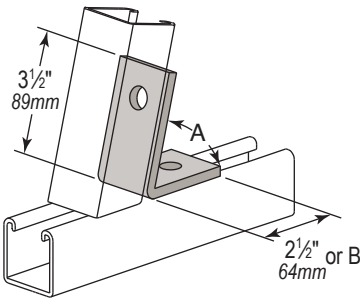
"A" is available in any angle up to 90°. Dimensions shown may vary based on specified angle.

| SPECIFYING Brand & Part No. | A       | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------|--------------------------------|---------------|
|                             |         | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |         |                                |               |
| W5440                       | 82-1/2° | VF34028250                     | -             |
| W5441                       | 75°     | VF340275                       | -             |
| W5442                       | 67-1/2° | VF34026750                     | -             |
| W5443                       | 60°     | VF340260                       | --            |
| W5444                       | 52-1/2° | VF34025250                     | -             |
| W5445                       | 45°     | VF340245                       | L62           |
| W5446                       | 37-1/2° | VF34023750                     | -             |
| W5447                       | 30°     | VF340230                       | --            |
| W5448                       | 22-1/2° | VF34022250                     | -             |
| W5449                       | 15°     | VF340215                       | -             |
| W5450                       | 7-1/2°  | VF3402750                      | -             |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



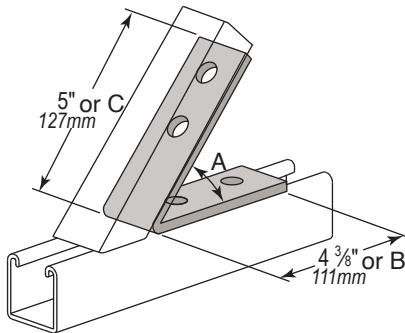
## 2-Hole Closed Angle



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

| SPECIFYING Brand & Part No. | A       | B (W & FS)      | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------|-----------------|--------------------------------|---------------|
|                             |         |                 | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W5460        | 82-1/2° | —               | VF32188250                     | —             |
| W5461                       | 75°     | —               | VF321975                       | —             |
| W5462                       | 67-1/2° | —               | VF32206750                     | —             |
| W5463                       | 60°     | 2-25/32" (71mm) | VF320560                       | --            |
| W5464                       | 52-1/2° | —               | VF32215250                     | —             |
| W5465                       | 45°     | 3-1/16" (78mm)  | VF320245                       | L61           |
| W5466                       | 37-1/2° | —               | VF32223750                     | —             |

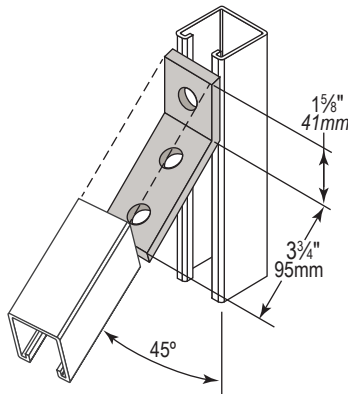
## 4-Hole Closed Angle



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

| SPECIFYING Brand & Part No. | A       | B (W & FS)       | C (W & FS)      | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------|------------------|-----------------|--------------------------------|---------------|
|                             |         |                  |                 | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W5410        | 82-1/2° | —                | —               | VF34248250                     | —             |
| W5411                       | 75°     | —                | —               | VF342575                       | —             |
| W5412                       | 67-1/2° | —                | —               | VF34266750                     | —             |
| W5413                       | 60°     | 4-21/32" (118mm) | 4-5/8" (117mm)  | VF342760                       | --            |
| W5414                       | 52-1/2° | —                | —               | VF34285250                     | —             |
| W5415                       | 45°     | 4-15/16" (125mm) | 4-1/32" (110mm) | VF342945                       | L63           |
| W5416                       | 37-1/2° | —                | —               | VF34303750                     | —             |
| W5417                       | 30°     | —                | —               | —                              | —             |

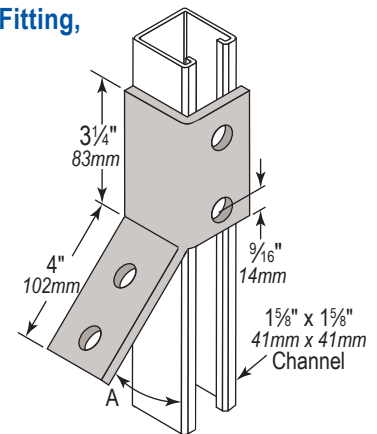
## 3-Hole 45° Open Angle



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W5431        | VF330145                       | --            |

## 4-Hole 45° Angle Wing Fitting, Left or Right Hand

Right Hand Shown  
Collar fits: 1-5/8" x 1-5/8" Channel



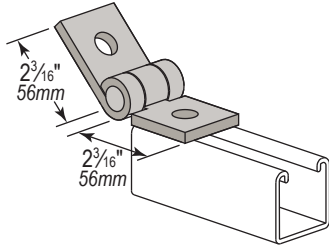
| SPECIFYING Brand & Part No. | Description | A   | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-----|--------------------------------|---------------|
|                             |             |     | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W5562L       | Left Hand   | 45° | VF6409L45                      | —             |
| W5562R                      | Right Hand  |     | VF6409R45                      | --            |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



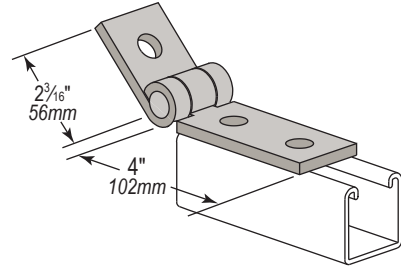
Standard Finish: Electro Galvanized (EG)

## 2-Hole Adjustable Hinge Connection



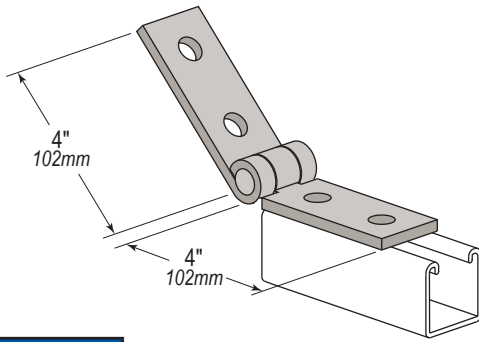
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>B5490</b>                | --                             | --            |

## 3-Hole Adjustable Hinge Connection



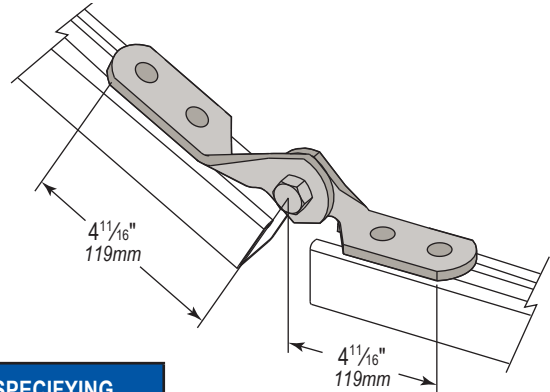
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>B5491</b>                | --                             | --            |

## 4-Hole Adjustable Hinge Connection



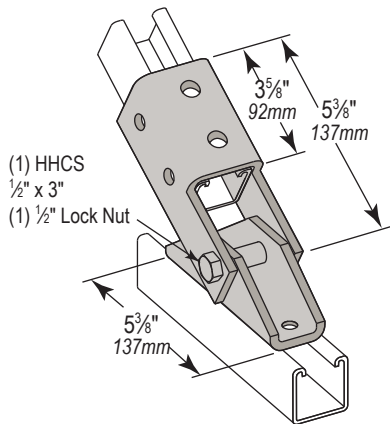
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>B5492</b>                | --                             | --            |

## 4-Hole Adjustable Angle Fitting



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>B5495</b>                | --                             | --            |

## Single Adjustable Angle Brace Fitting



Wrap around clevis designed to accommodate 1-5/8" channel.

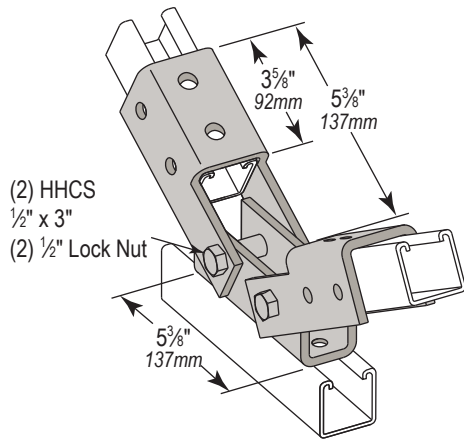
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5480</b>                | VF7046                         | --            |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)





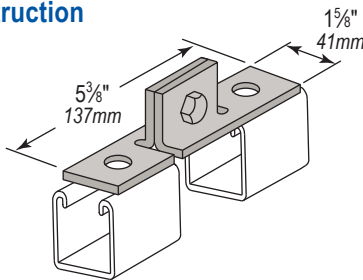
## Double Adjustable Angle Brace Fitting



Wrap around clevis designed to accommodate 1-5/8" channel.

| SPECIFYING<br>Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|--------------------------------|--------------------------------|---------------|
|                                | VERSABAR                       | FLORIDA STRUT |
| WESANCO<br>W5485               | VF7047                         | --            |

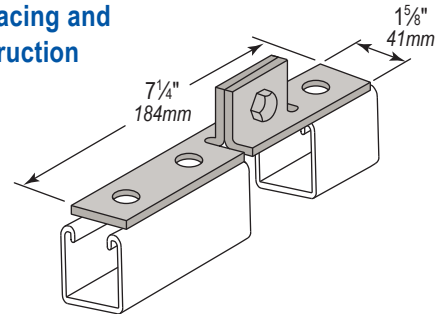
## 2-Hole Adjustable Hinge Fitting for Seismic Bracing and General Construction



| SPECIFYING<br>Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|--------------------------------|--------------------------------|---------------|
|                                | VERSABAR                       | FLORIDA STRUT |
| WESANCO<br>W5496               | VF1201H                        | --            |

Available in stainless steel

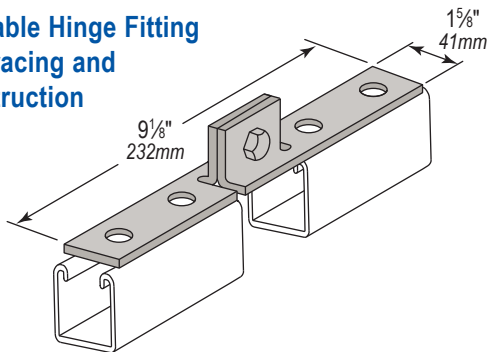
## 3-Hole Adjustable Hinge Fitting for Seismic Bracing and General Construction



| SPECIFYING<br>Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|--------------------------------|--------------------------------|---------------|
|                                | VERSABAR                       | FLORIDA STRUT |
| WESANCO<br>W5497               | VF1302H                        | --            |

Available in stainless steel

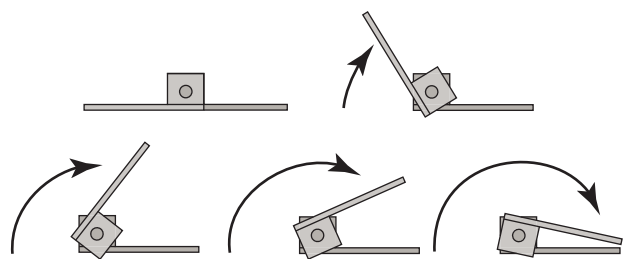
## 4-Hole Adjustable Hinge Fitting for Seismic Bracing and General Construction



| SPECIFYING<br>Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|--------------------------------|--------------------------------|---------------|
|                                | VERSABAR                       | FLORIDA STRUT |
| WESANCO<br>W5498               | VF1402H                        | --            |

Available in stainless steel

Allows adjustable tension through full range of motion



These fittings allow a full range of motion, and are compatible with all 1-5/8" standard channels.

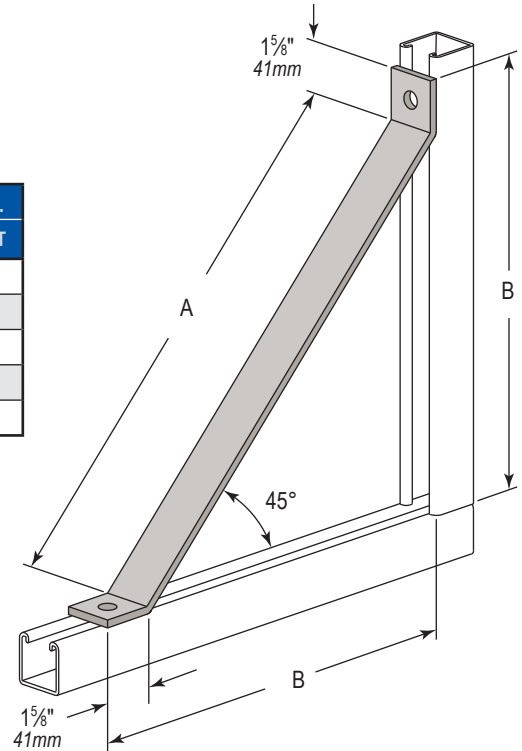
Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" (6mm)



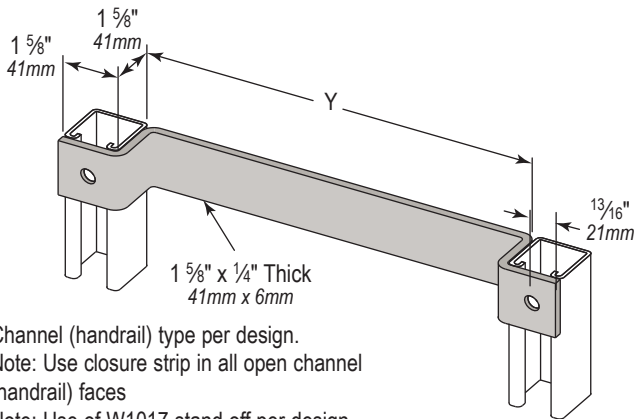
Standard Finish: Electro Galvanized (EG)

## 45° Angular Corner Brace

| SPECIFYING Brand & Part No. | A               | B               | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------------|-----------------|--------------------------------|---------------|
|                             |                 |                 | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W5471        | 8" (203mm)      | 7-1/2" (191mm)  | VF32508                        | L80           |
| W5472                       | 12" (305mm)     | 10-1/8" (257mm) | VF325012                       | L81           |
| W5473                       | 16-5/8" (422mm) | 13-3/8" (340mm) | --                             | L82           |
| W5474                       | 18" (457mm)     | 14-3/8" (365mm) | VF325018                       | L83           |
| W5475                       | 24" (610mm)     | VF325024        | L84                            |               |



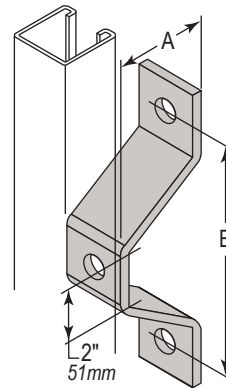
## Utility Vault Ladder Rung



Channel (handrail) type per design.  
 Note: Use closure strip in all open channel (handrail) faces  
 Note: Use of W1017 stand off per design

| SPECIFYING Brand & Part No. | Y           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
|                             |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W10236       | 6" (152mm)  | --                             | --            |
| W10238                      | 8" (203mm)  | --                             | --            |
| W102310                     | 10" (254mm) | --                             | --            |
| W102312                     | 12" (305mm) | VF6108                         | --            |
| W102316                     | 16" (406mm) | --                             | --            |
| W102318                     | 18" (457mm) | VF6110                         | --            |
| W102324                     | 24" (610mm) | --                             | --            |

## Ladder Assembly Fitting

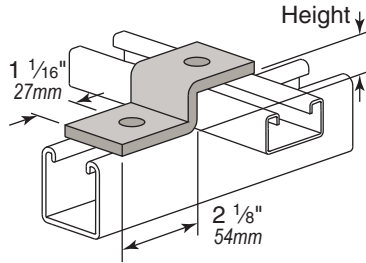


| SPECIFYING Brand & Part No. | A               | B           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------------|-------------|--------------------------------|---------------|
|                             |                 |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W1017B       | 2-3/8" (60mm)   | 6" (152mm)  | VF6111                         | --            |
| W1017C                      | 4-3/8" (111mm)  | 8" (203mm)  | VF6112                         | --            |
| W1017D                      | 6-3/8" (162mm)  | 10" (254mm) | VF6113                         | --            |
| W1017E                      | 8-3/8" (213mm)  | 12" (305mm) | VF6114                         | --            |
| W1017F                      | 10-3/8" (263mm) | 14" (356mm) | VF6115                         | --            |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)

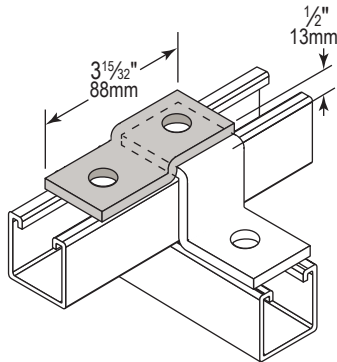


## 2-Hole Z Fitting



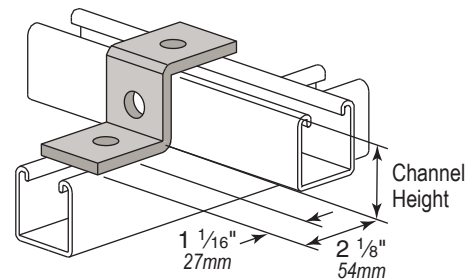
| SPECIFYING Brand & Part No. | Height Use with Channel | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------------------|--------------------------------|---------------|
|                             |                         | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                         |                                |               |
| W5209                       | 4-7/8" (124mm)          | VF4205                         | --            |
| W5211                       | 2-7/16" (62mm)          | --                             | Z12           |
| W5214                       | 2-1/2" (64mm)           | VF43013                        | --            |
| W5213                       | 1-3/8" (35mm)           | VF43016                        | --            |
| W5218                       | 1" (25mm)               | VF430110                       | Z14           |
| W5215                       | 13/16" (21mm)           | VF43014                        | Z10           |

## 2-Hole Offset Support



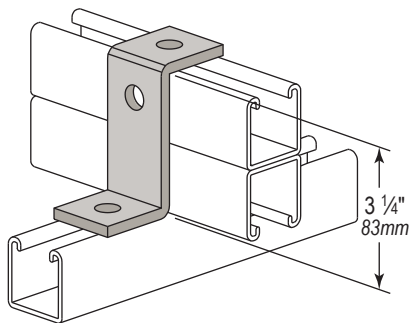
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5203                       | VF4202                         | Z20           |

## 3-Hole Z Fitting



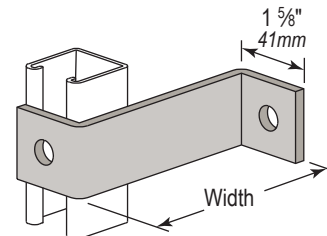
| SPECIFYING Brand & Part No. | Height Use with Channel | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------------------|--------------------------------|---------------|
|                             |                         | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                         |                                |               |
| W5212                       | 1-5/8" (41mm)           | VF4301                         | --            |

## 3-Hole Z Fitting For Double Square Channel



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5210                       | VF4302                         | --            |

## 2-Hole Z Connector



| SPECIFYING Brand & Part No. | Height Use with Channel | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------------------|--------------------------------|---------------|
|                             |                         | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                         |                                |               |
| W5224                       | 4" (102mm)              | VF4204A                        | Z30           |
| W5225                       | 5" (127mm)              | VF4204B                        | Z31           |
| W5226                       | 6" (152mm)              | VF4204C                        | Z32           |
| W5227                       | 7" (178mm)              | VF4204D                        | Z33           |
| W5228                       | 8" (203mm)              | VF4204E                        | Z34           |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)

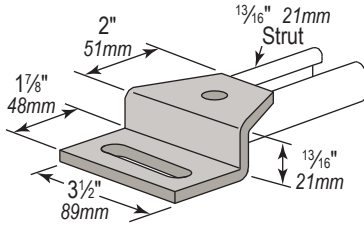


# "Z" & "U" Shape Fittings



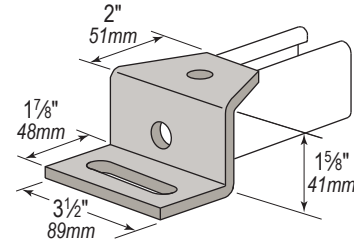
Standard Finish: Electro Galvanized (EG)

## Adjustable Z Connector



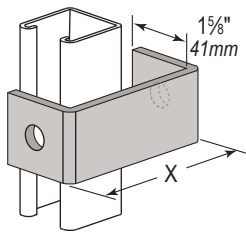
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>W5205     | VF43034                        | --            |

## Adjustable Z Connector



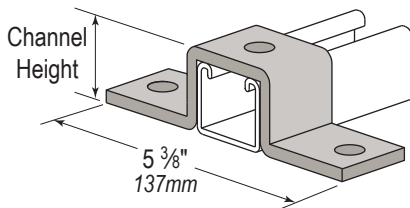
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>W5202     | VF4303                         | Z60           |

## 2-Hole U-Fitting Clevis



| SPECIFYING Brand & Part No. | X          | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------|--------------------------------|---------------|
|                             |            | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>W5324     | 4" (102mm) | VF5203A                        | U600400       |
| <b>WESANCO</b><br>W5325     | 5" (127mm) | VF5203B                        | U600500       |
| <b>WESANCO</b><br>W5326     | 6" (152mm) | VF5203C                        | U600600       |
| <b>WESANCO</b><br>W5327     | 7" (178mm) | VF5203D                        | U600700       |
| <b>WESANCO</b><br>W5328     | 8" (203mm) | VF5203E                        | U600800       |

## 3-Hole "U" Support



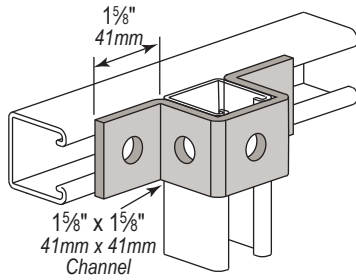
| SPECIFYING Brand & Part No. | Channel Height | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|--------------------------------|---------------|
|                             |                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>W5315     | 1 3/16" (21mm) | VF64024                        | U10           |
| <b>WESANCO</b><br>W5318     | 1" (25mm)      | VF640210                       | --            |
| <b>WESANCO</b><br>W5313     | 1-3/8" (35mm)  | VF64026                        | --            |
| <b>WESANCO</b><br>W5320     | 2-1/2" (64mm)  | VF64023                        | --            |
| <b>WESANCO</b><br>W5311     | 2-7/16" (62mm) | --                             | U12           |
| <b>WESANCO</b><br>W5316     | 3-1/4" (62mm)  | VF6317                         | U13           |
| <b>WESANCO</b><br>W5314     | 4-7/8" (124mm) | VF6319                         | U14           |
| <b>WESANCO</b><br>W5321     | 5" (127mm)     | --                             | --            |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



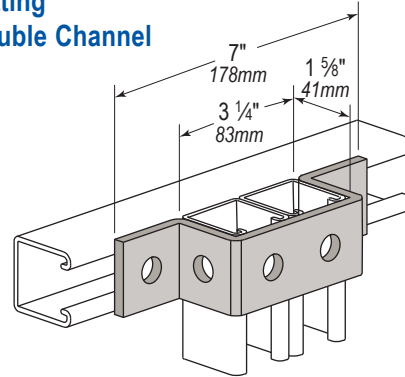
Standard Finish: Electro Galvanized (EG)

## 5-Hole "U" Support for 1-5/8" Channel



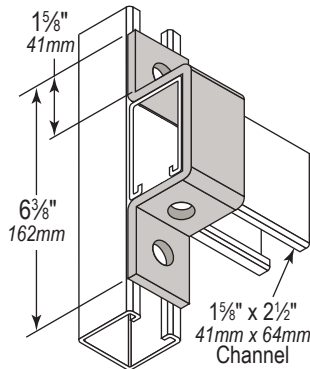
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5312</b>                | VF6402                         | U11           |

## 6-Hole U-Fitting for 1-5/8" Double Channel



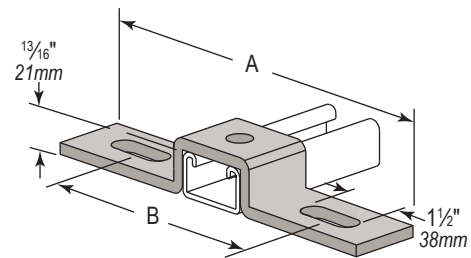
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5317</b>                | VF6401                         | U16           |

## 4-Hole Strap for 2-1/2" Channel



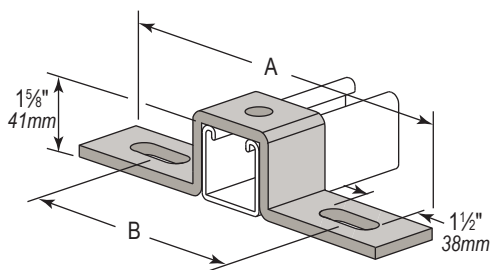
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5322</b>                | VF64023U                       | --            |

## 1-Hole U-Fitting 2 Slot for 13/16" Channel



| SPECIFYING Brand & Part No. | A              | B              | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|----------------|--------------------------------|---------------|
|                             |                |                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                |                | VF63034                        | --            |
| <b>W5305</b>                | 8-1/2" (216mm) | 5-3/8" (136mm) |                                |               |

## 1-Hole U-Fitting 2 Slot for 1-5/8" Channel



| SPECIFYING Brand & Part No. | A               | B              | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------------|----------------|--------------------------------|---------------|
|                             |                 |                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                 |                |                                |               |
| <b>W5307</b>                | 7-1/4" (184mm)  | 4-1/8" (105mm) | VF6302                         | U20           |
| <b>W5308</b>                | 8-1/2" (216mm)  | 5-3/8" (136mm) | VF6303                         | U21           |
| <b>W5310</b>                | 10-3/8" (264mm) | 7-1/4" (184mm) | VF6304                         | U22           |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



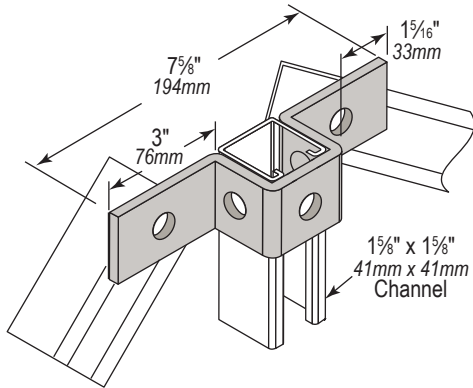
# "U" Shape Fittings



Standard Finish: Electro Galvanized (EG)

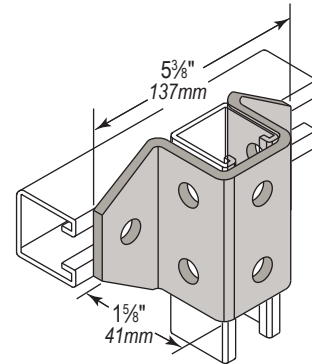
## 5-Hole Connector For Double Diagonal Brace

For 1-5/8" x 1-5/8" channel.



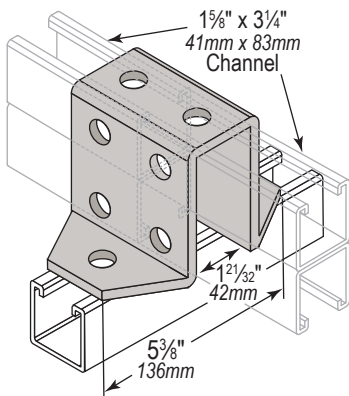
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5330</b>                | VF6403                         | --            |

## 8-Hole U-Fitting for 1-5/8" Channel



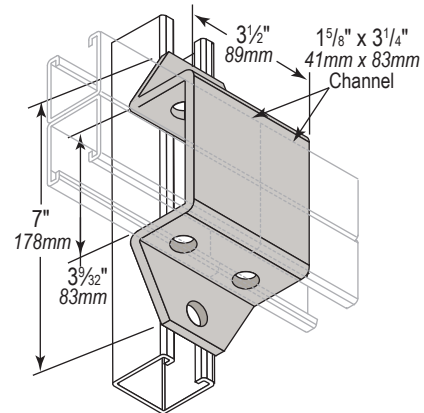
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5319</b>                | VF6618                         | U15           |

## 12-Hole U-Fitting for 3-1/4" Channel



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5323</b>                | VF6619                         | --            |

## 6-Hole U-Fitting for 3-1/4" Channel



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5329</b>                | VF6802                         | --            |

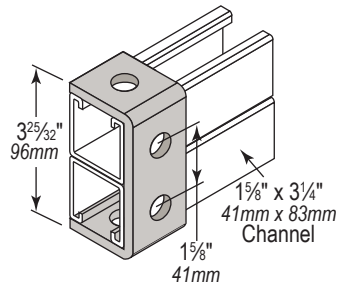
Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)





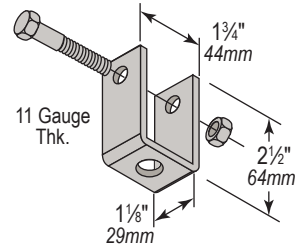
Standard Finish: Electro Galvanized (EG)

## 4-Hole "C" Fitting 3-1/4" Inside



| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5301                       |  | VF5401                         | --            |

## Swing Clevis

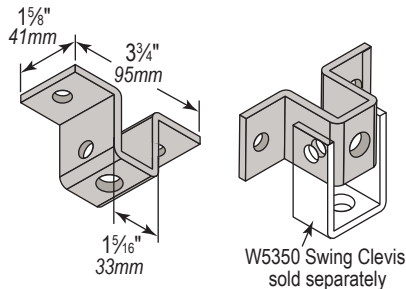


Side Holes are 7/16" 11mm Dia.  
Base Hole is 9/16" 14mm Dia.

Includes 3/8"-16 x 2 1/4" HHCS  
and 3/8" Dia. Hex Nut

| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5350                       |  | VX1099                         | --            |

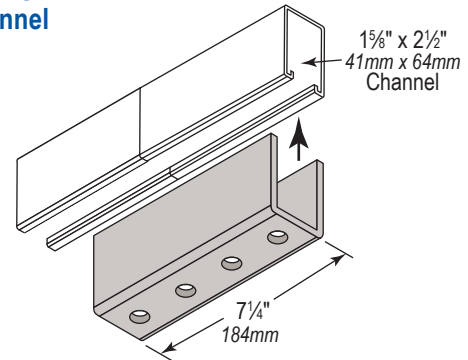
## Swing Clevis Adapter



Side Holes are 7/16" (11mm) Dia.  
Base Hole is 9/16" (14mm) Dia.

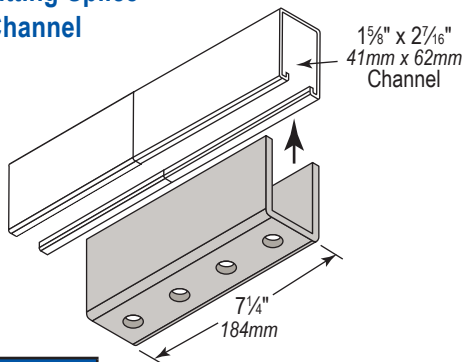
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5351                       |  | VX6402OH                       | --            |

## 4-Hole U-Fitting Splice for 2-1/2" Channel



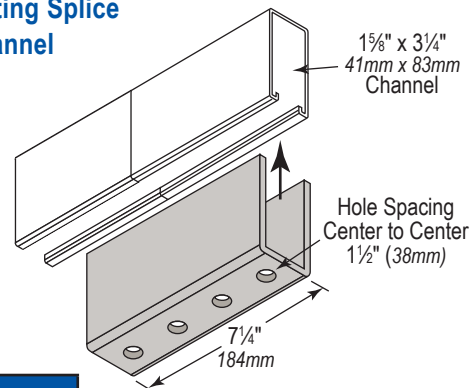
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5340                       |  | VF54023                        | --            |

## 4-Hole U-Fitting Splice for 2-7/16" Channel



| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5349                       |  | --                             | --            |

## 4-Hole U-Fitting Splice for 3-1/4" Channel



| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5348                       |  | VF540211                       | --            |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)

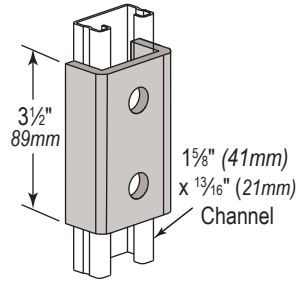


# "U" Shape Fittings



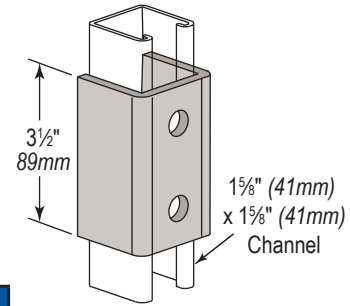
Standard Finish: Electro Galvanized (EG)

## 2-Hole Splice for $1\frac{3}{16}$ " Channel



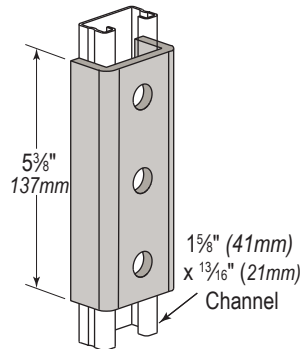
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |                  |
|-----------------------------|--------------------------------|------------------|
| W5342                       | VERSABAR VF52044               | FLORIDA STRUT -- |

## 2-Hole U-Fitting Splice for $1\frac{5}{8}$ " Channel



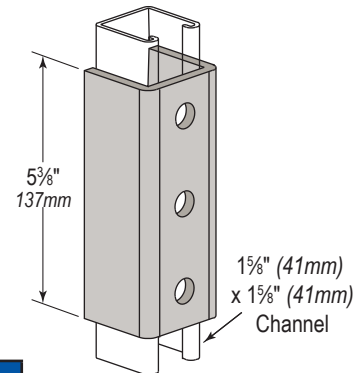
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |                   |
|-----------------------------|--------------------------------|-------------------|
| W5344                       | VERSABAR VF5204                | FLORIDA STRUT U30 |

## 3-Hole Splice for $1\frac{3}{16}$ " Channel



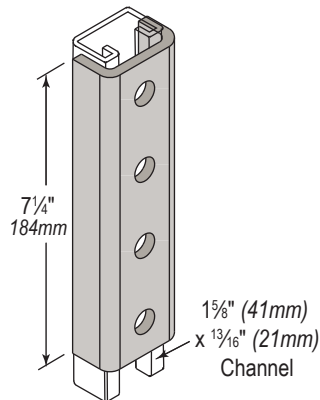
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |                  |
|-----------------------------|--------------------------------|------------------|
| W5343                       | VERSABAR VF53044               | FLORIDA STRUT -- |

## 3-Hole U-Fitting Splice for $1\frac{5}{8}$ " Channel



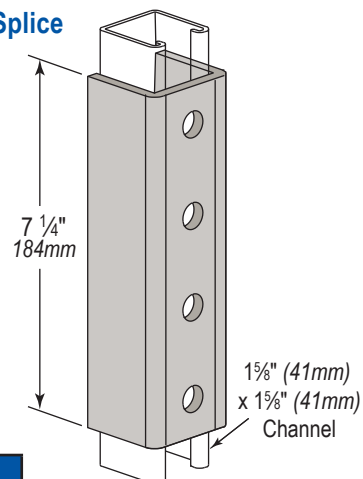
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |                   |
|-----------------------------|--------------------------------|-------------------|
| W5346                       | VERSABAR VF5304                | FLORIDA STRUT U31 |

## 4-Hole Splice for $1\frac{3}{16}$ " Channel



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |                   |
|-----------------------------|--------------------------------|-------------------|
| W5347                       | VERSABAR VF54024               | FLORIDA STRUT U33 |

## 4-Hole U-Fitting Splice for $1\frac{5}{8}$ " Channel



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |                   |
|-----------------------------|--------------------------------|-------------------|
| W5345                       | VERSABAR VF5402                | FLORIDA STRUT U32 |

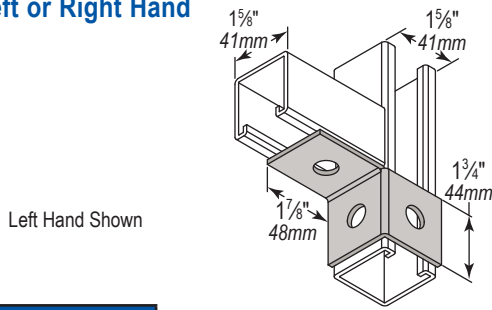
Hole Diameter:  $\frac{9}{16}$ " (14mm); Hole Spacing - From End:  $\frac{13}{16}$ " (21mm); Hole Spacing - On Center:  $1\frac{7}{8}$ " (48mm); Width:  $1\frac{5}{8}$ " (41mm); Thickness:  $\frac{1}{4}$ " (6mm)



Introduction  
Channel  
Channel Nuts & Hardware  
General Fittings  
Brackets  
Beam Clamps  
Pipe & Conduit Supports  
Electrical Fittings  
Spring Steel  
Concrete Inserts  
Roofing Supports  
Fiberglass System  
Technical Data

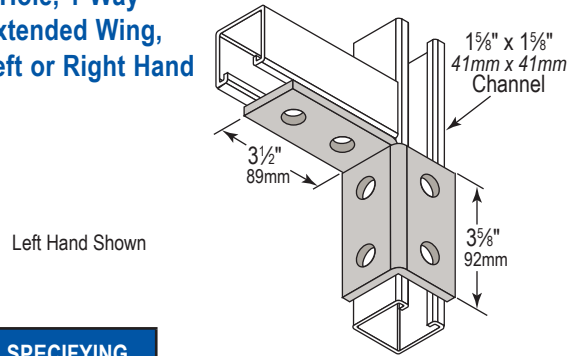
Standard Finish: Electro Galvanized (EG)

## 3-Hole Wing Fitting Single Corner, Left or Right Hand



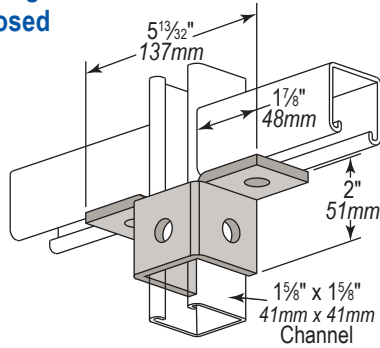
| SPECIFYING Brand & Part No. |             | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
| WESANCO                     | Description | VERSABAR                       | FLORIDA STRUT |
| W5511                       | Left Hand   | VF2216L                        | W11           |
| W5510                       | Right Hand  | VF2216R                        | W10           |

## 6-Hole, 1-Way Extended Wing, Left or Right Hand



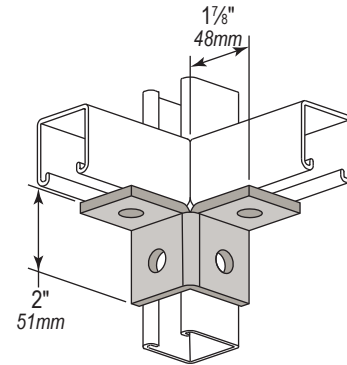
| SPECIFYING Brand & Part No. |             | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
| WESANCO                     | Description | VERSABAR                       | FLORIDA STRUT |
| W5146                       | Left Hand   | VF2419L                        | --            |
| W5147                       | Right Hand  | VF2419R                        | --            |

## 5-Hole Wing Fitting Corner Connector Opposed



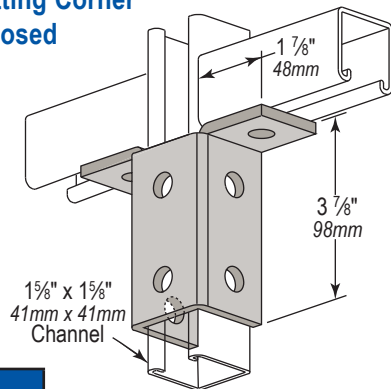
| SPECIFYING Brand & Part No. |             | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
| WESANCO                     | Description | VERSABAR                       | FLORIDA STRUT |
| W5513                       |             | VF2504                         | W30           |

## 4-Hole Wing Fitting Double Corner



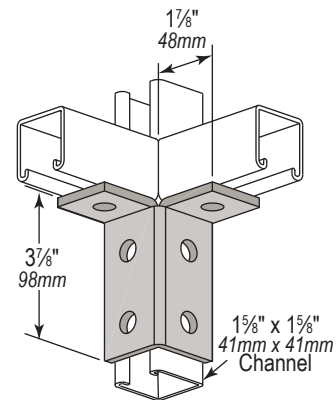
| SPECIFYING Brand & Part No. |             | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
| WESANCO                     | Description | VERSABAR                       | FLORIDA STRUT |
| W5512                       |             | VF3405                         | W20           |

## 8-Hole Wing Fitting Corner Connector Opposed



| SPECIFYING Brand & Part No. |             | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
| WESANCO                     | Description | VERSABAR                       | FLORIDA STRUT |
| W5519                       |             | VF6801                         | W31           |

## 6-Hole Wing Fitting Double Corner



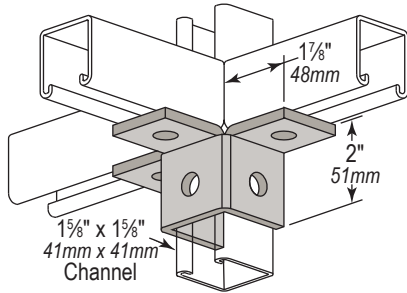
| SPECIFYING Brand & Part No. |             | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
| WESANCO                     | Description | VERSABAR                       | FLORIDA STRUT |
| W5518                       |             | VF3601                         | W21           |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)



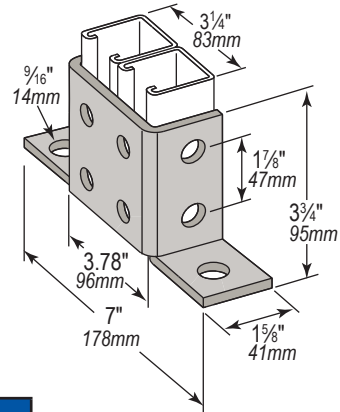
Standard Finish: Electro Galvanized (EG)

## 6-Hole Wing Fitting Triple Corner



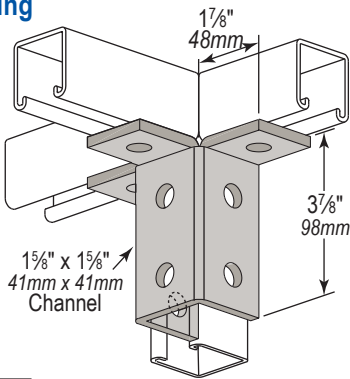
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5514                       | VF3602                         | W40           |

## 10-Hole Base Wing Fitting



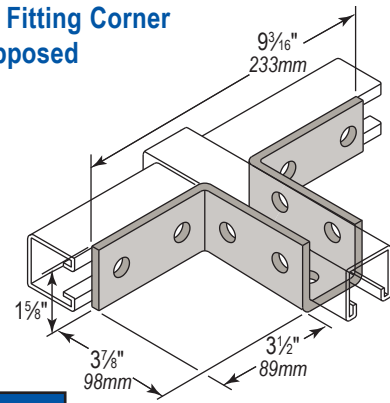
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5524                       | --                             | --            |

## 9-Hole Wing Fitting Triple Corner



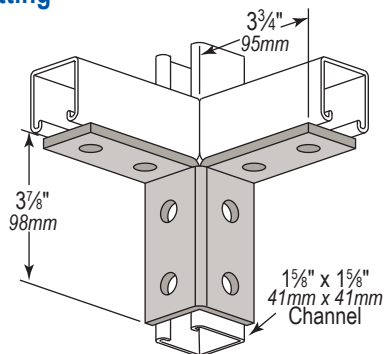
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5517                       | VF3901                         | W41           |

## 10-Hole Wing Fitting Corner Connector Opposed



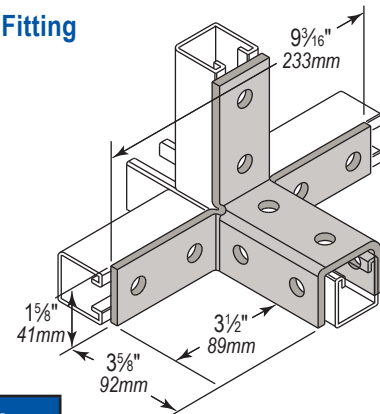
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5523                       | VF61002                        | W32           |

## 8-Hole Wing Fitting Double Corner



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5515                       | VF3802                         | W22           |

## 12-Hole Wing Fitting Triple Corner



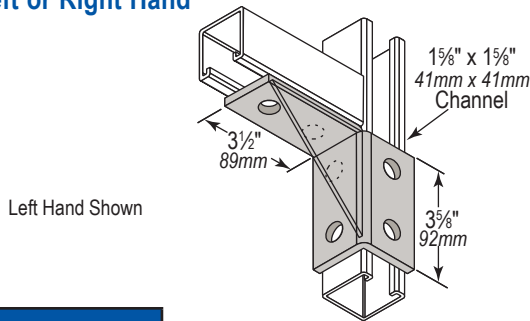
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5522                       | VF31201                        | W42           |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)



Standard Finish: Electro Galvanized (EG)

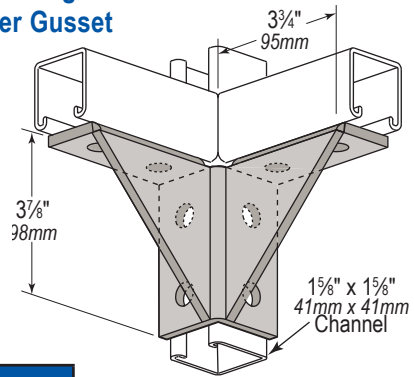
## 1-Way Extended Gusset Wing, Left or Right Hand



Left Hand Shown

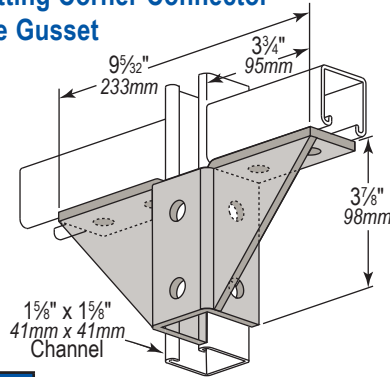
| SPECIFYING Brand & Part No. |            | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------|--------------------------------|---------------|
| WESANCO                     |            | VERSABAR                       | FLORIDA STRUT |
| W5148                       | Left Hand  | VF2420L                        | --            |
| W5149                       | Right Hand | VF2420R                        | --            |

## 8-Hole Wing Fitting Double Corner Gusset



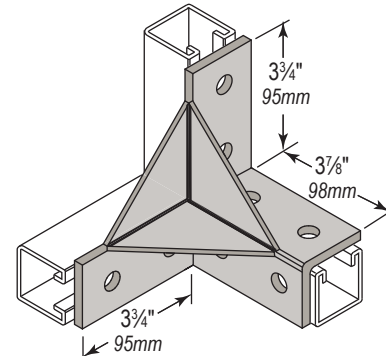
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5516                       |  | VF3803                         | W23           |

## 10-Hole Wing Fitting Corner Connector Opposed Double Gusset



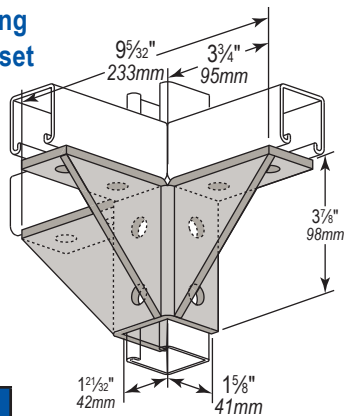
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5520                       |  | VF210010                       | W33           |

## 8-Hole Wing Fitting Double Corner Double Gusset



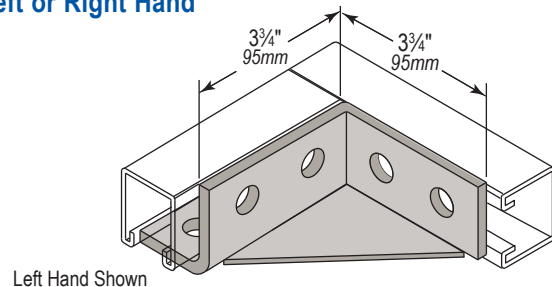
| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5531                       |  | --                             | W24           |

## 12-Hole Wing Fitting Triple Corner Gusset



| SPECIFYING Brand & Part No. |  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
| WESANCO                     |  | VERSABAR                       | FLORIDA STRUT |
| W5521                       |  | VF31202                        | W43           |

## 6-Hole Wing Fitting Single Corner Gusset, Left or Right Hand



Left Hand Shown

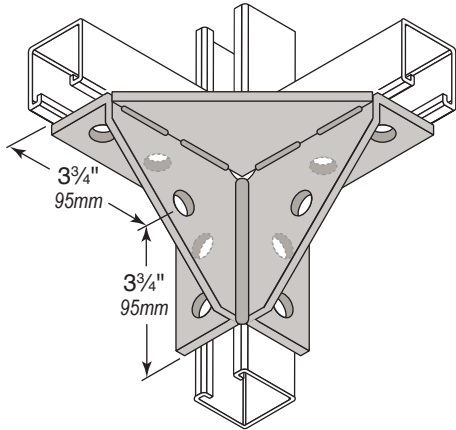
| SPECIFYING Brand & Part No. |  | Description | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|-------------|--------------------------------|---------------|
| WESANCO                     |  |             | VERSABAR                       | FLORIDA STRUT |
| W5524L                      |  | Left Hand   | --                             | W15           |
| W5524R                      |  | Right Hand  | --                             | W14           |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)



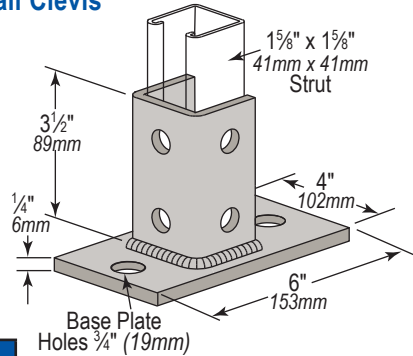
Standard Finish: Electro Galvanized (EG)

## 8-Hole Double Corner Gussetted Connector



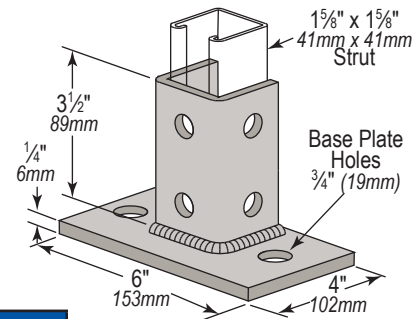
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5525</b>                | VF3807                         | --            |

## Rectangular Plate 8-Hole Post Base Single Channel Tall Clevis



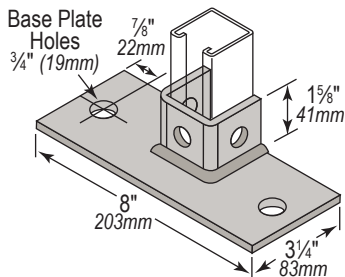
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|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5810</b>                | --                             | P10           |

## Rectangular Plate 8-Hole Post Base Single Channel Tall Clevis



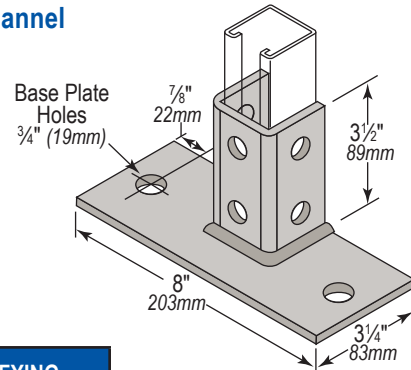
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5810FL</b>              | --                             | P11           |

## Rectangular Plate 5-Hole Post Base Flush Single Channel



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5813FL</b>              | VF9601AFL                      | --            |

## Rectangular Plate 8-Hole Post Base Flush Single Channel



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5814FL</b>              | VF9601FL                       | --            |

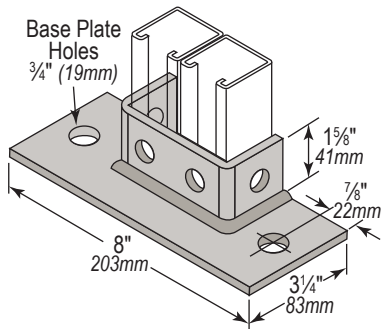
Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)





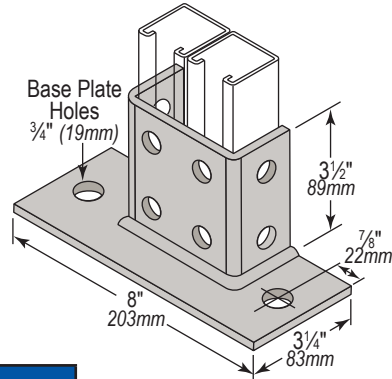
Standard Finish: Electro Galvanized (EG)

## Double Channel Stand/Wall Flush 6-Hole Post Base



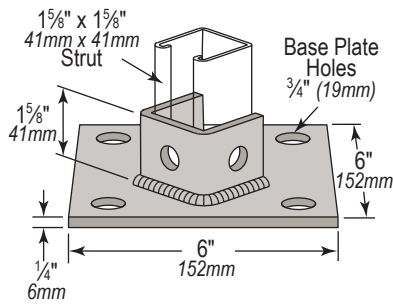
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5815FL                     | VF9602AFL                      | --            |

## Double Channel Stand/Wall Flush 10-Hole Post Base



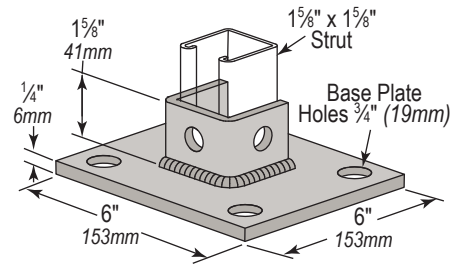
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5816FL                     | VF9602FL                       | --            |

## Post Base Single Channel 7-Hole Standard



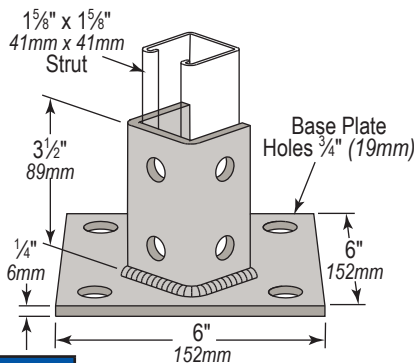
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5813                       | VF9601A                        | P12           |

## Post Base Double Channel 7-Hole Square



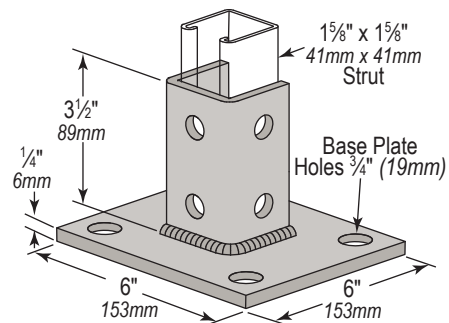
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5813SQ                     | VF9601ASQ                      | P22           |

## Post Base Single Channel 10-Hole Standard



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5814                       | VF9601                         | P13           |

## Post Base Double Channel 10-Hole Standard



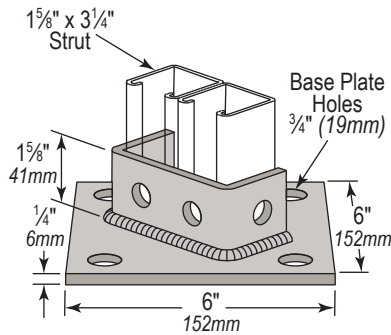
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| W5814SQ                     | VF9601SQ                       | P14           |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)



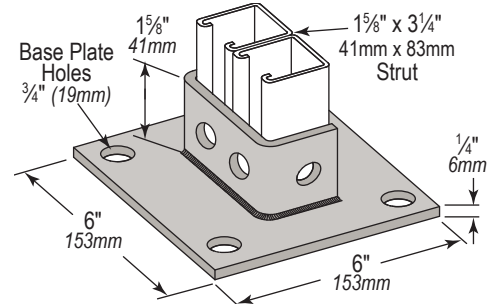
Standard Finish: Electro Galvanized (EG)

## Post Base Double Channel 8-Hole Standard



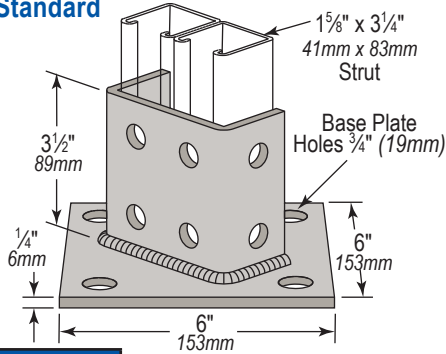
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5815</b>                | VF9602A                        | P18           |

## Post Base Double Channel 8-Hole Standard



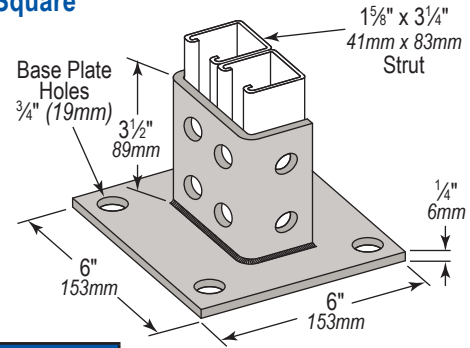
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5815SQ</b>              | VF9602ASQ                      | --            |

## Post Base Double Channel 12-Hole Standard



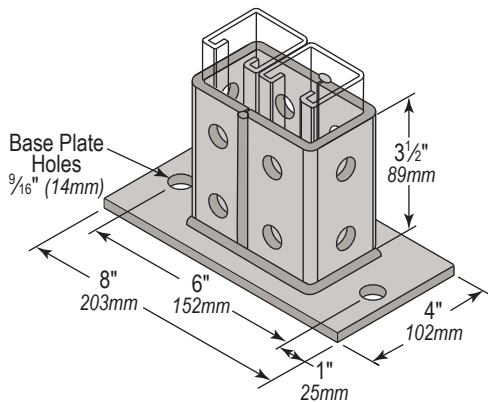
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5816</b>                | VF9602                         | P19           |

## Post Base Double Channel 12-Hole Square



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5816SQ</b>              | VF9602SQ                       | P20           |

## Post Base Double Channel 14-Hole Square 3-1/2" Boxed



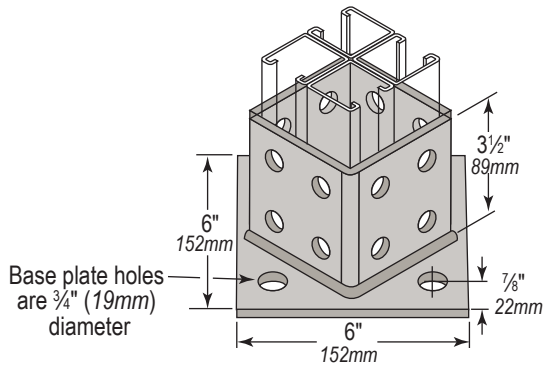
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5817</b>                | --                             | P17           |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



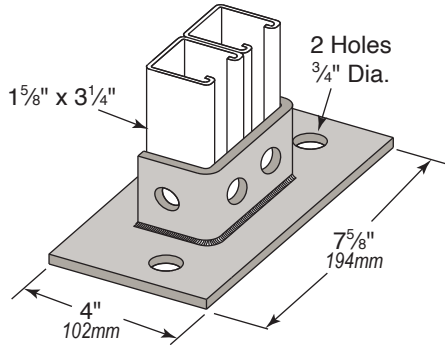
Standard Finish: Electro Galvanized (EG)

## Post Base Quad-Channel 20-Hole Square



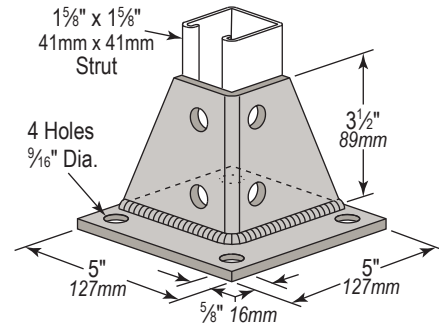
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5821</b>                | VF9605                         | --            |

## Rectangular Plate 6 Hole Post Base Double Channel Short Clevis



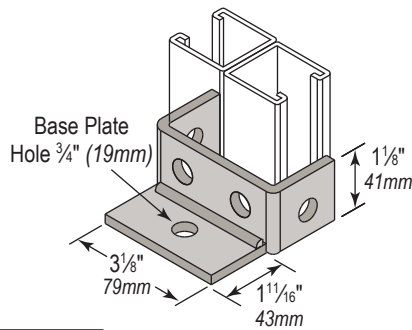
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5812</b>                | --                             | --            |

## Post Base Single Channel Gusset 8-Hole Square



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5811</b>                | VF7803                         | P15           |

## Post Base Double Channel 5-Hole



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W5818</b>                | VF9311                         | P16           |

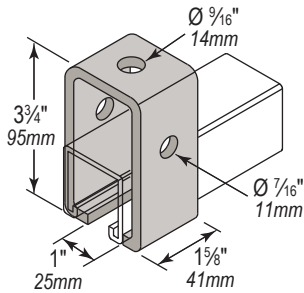
Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



Standard Finish: Electro Galvanized (EG)

## U-Fitting Trolley Support 3 Hole Standard

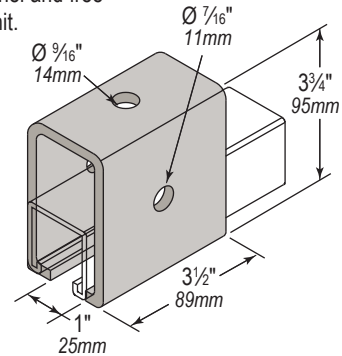
Permits suspension of 1-5/8" square channel and free passage of trolley unit.



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W6604</b>                | VF7101                         | U40           |

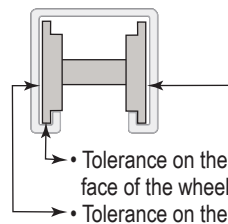
## U-Fitting Trolley Support 3 Hole Heavy Duty

Permits suspension and splicing of 1-5/8" square channel and free passage of trolley unit.



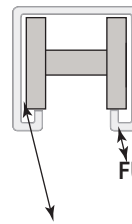
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W6603</b>                | VF7101A                        | U41           |

## Two Types of Trolley Support [Wheel w/Support in Strut Bend & Full Wheel]



**Wheel w/Support in Strut Bend**  
The wider portion of the wheel sets on the inturned edge of the Strut  
Just like the Full Wheel  
The narrow portion of the wheel sets in the space provided by the inturned edge.

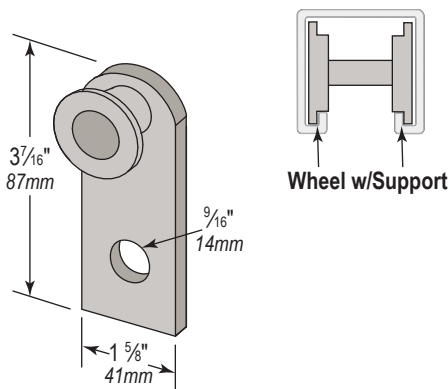
- Tolerance on the face of the wheel
- Tolerance on the Inturned edge
- Less weight allowed on the trolley since the trolley within inturned edge does not carry a load



**FULL Wheel** sets on the inturned edge of the Strut

- Single tolerance on the face of the wheel
- Greater weight allowed on the trolley with the single edge on wheel

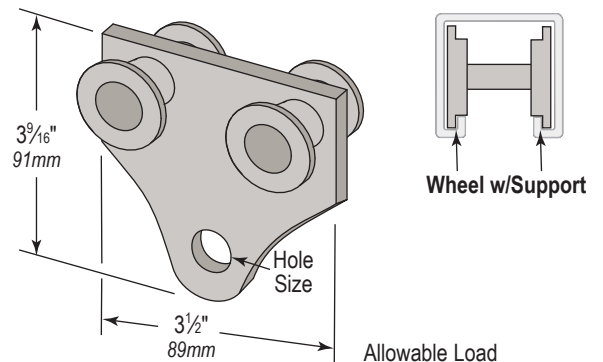
## Single Wheel Trolley [Wheel w/Support]



Allowable load  
300lbs (2.00 kN) max.

| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W6606</b>                | --                             | --            |

## Four Wheel Trolley [Wheel w/Support]



Allowable Load  
600lbs (2.67 kN) max.

| SPECIFYING Brand & Part No. | Hole Size     | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|--------------------------------|---------------|
| <b>WESANCO</b>              |               | VERSABAR                       | FLORIDA STRUT |
| <b>W6601</b>                | 1-1/8" (29mm) | --                             | --            |
| <b>W6605</b>                | 9/16" (14mm)  | --                             | --            |

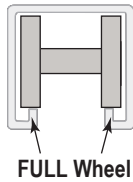
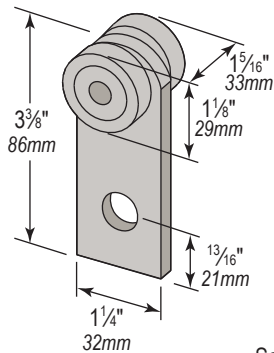
Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



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Channel  
Channel Nuts & Hardware  
General Fittings  
Brackets  
Beam Clamps  
Pipe & Conduit Supports  
Electrical Fittings  
Spring Steel  
Concrete Inserts  
Roofing Supports  
Fiberglass System  
Technical Data

## Standard Finish: Electro Galvanized (EG)

### Two Wheel Trolley [Full Wheel]



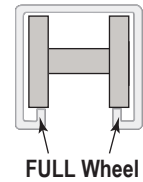
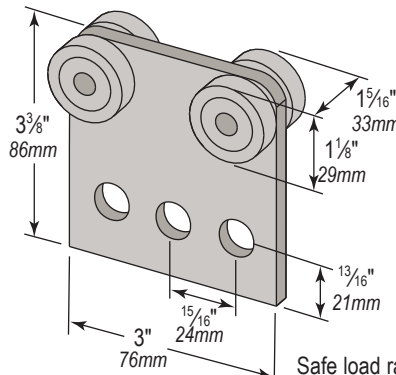
FULL Wheel

Safe load rating for steel bearing Trolley  
 437 lbs. (1.94 kN) @ 100 rpm  
 225 lbs. (1.00 kN) @ 300 rpm  
 150 lbs. (0.67 kN) @ 600 rpm

| SPECIFYING Brand & Part No. | Description                                   | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---|--------------------------------|---------------|
|                             |   | VERSABAR                       | FLORIDA STRUT |
| W6602                       | All Steel Components                          | VX7026                         | R10           |
| W6602N                      | Steel Trolley, Nylon Plain Bearings           | VX7026N                        | --            |
| W6602NSS                    | Stainless Steel Trolley, Nylon Plain Bearings | VX7026NSS                      | --            |

All Trolleys have carbon steel axles

### Four Wheel Trolley [Full Wheel]



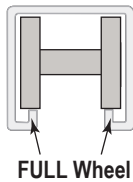
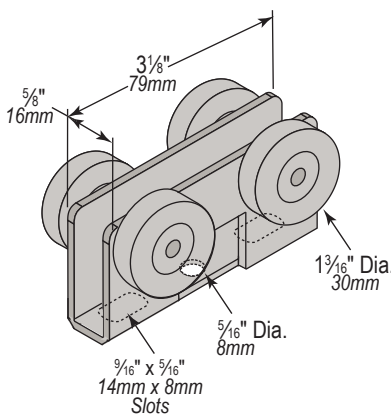
FULL Wheel

Safe load rating for steel bearing Trolley  
 600 lbs. (2.67 kN) @ 100 rpm  
 450 lbs. (2.00 kN) @ 300 rpm  
 300 lbs. (1.33 kN) @ 600 rpm

| SPECIFYING Brand & Part No. | Description                                   | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---|--------------------------------|---------------|
|                             |   | VERSABAR                       | FLORIDA STRUT |
| W6600                       | All Steel Components                          | VX7027                         | R11           |
| W6600N                      | Steel Trolley, Nylon Plain Bearings           | VX7027N                        | --            |
| W6600NSS                    | Stainless Steel Trolley, Nylon Plain Bearings | VX7027NSS                      | --            |

All Trolleys have carbon steel axles

### Four Wheel Trolley [Full Wheel]

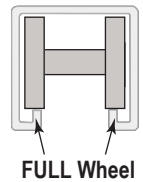
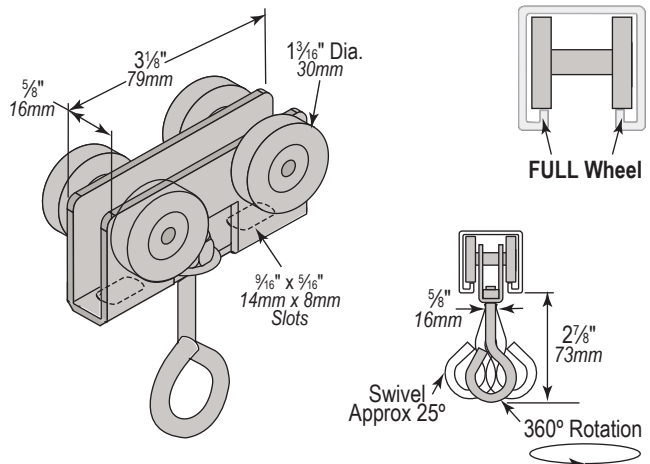


FULL Wheel

Safe load rating for  
 Steel bearing Trolley - 100 lbs. (0.44 kN)  
 Nylon bearing Trolley - 20 lbs. (0.09 kN)

| SPECIFYING Brand & Part No. | Description                         | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------------------------------|--------------------------------|---------------|
|                             |                                     | VERSABAR                       | FLORIDA STRUT |
| W6607                       | All Steel Components                | VX7029                         | --            |
| W6607N                      | Steel Trolley, Nylon Plain Bearings | VX7029N                        | --            |

### Four Wheel Trolley [Full Wheel] with Swivel Loop



FULL Wheel

Safe load rating for  
 Steel bearing Trolley - 100 lbs. (0.44 kN)  
 Nylon bearing Trolley - 20 lbs. (0.09 kN)

| SPECIFYING Brand & Part No. | Description                         | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------------------------------|--------------------------------|---------------|
|                             |                                     | VERSABAR                       | FLORIDA STRUT |
| W6610                       | All Steel Components                | VX7028                         | --            |
| W6610N                      | Steel Trolley, Nylon Plain Bearings | VX7028N                        | --            |

Hole Diameter: 5/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)

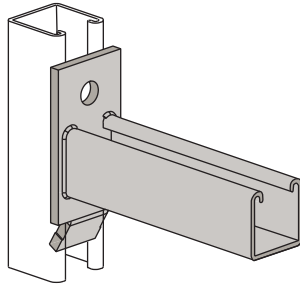


# Brackets



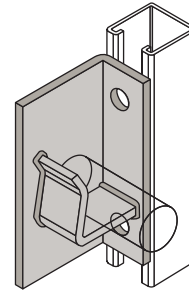
## Channel Brackets

Pages 114 - 116



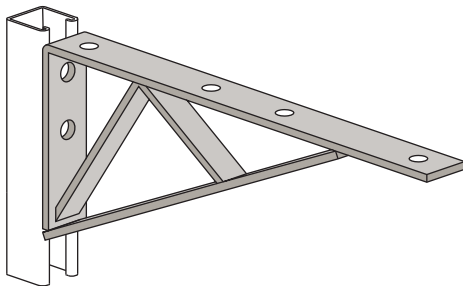
## Reel Supports

Page 121



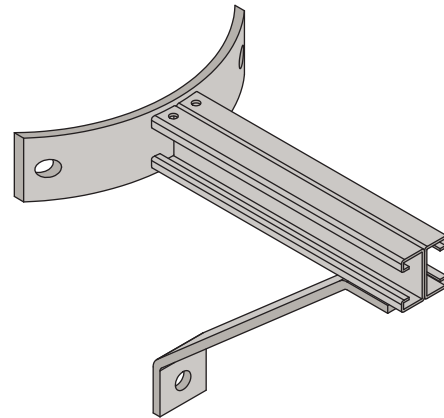
## Shelf Brackets

Pages 117 - 120



## Utility Brackets

Pages 122 - 126



| Fittings Specifications  |                                    |  |
|--------------------------|------------------------------------|--|
| Material                 | ASTM                               | Description  |
| Hot Rolled Plate         | A 575, A 1011, A 1018, A 576, A638 | Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.                          |
| Fitting: Steel           | A 366, A 36                        | Steel carbon, cold rolled sheet, commercial quality structural steel.                                |
| Strip Steel: Pipe Clamps | A 569                              | Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.                          |
| Stainless Steel          | A 240 TYPE 304                     | Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel. |
|                          | A 240 TYPE 316                     |  |
| Aluminum                 | B 221                              | Aluminum alloy extruded bar, rod, wire, shape and tube.  |

| Fitting Finish Specifications        |  |
|--------------------------------------|--|
| Finish                               | Description  |
| Paint-Green Powder Coating           | A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.   |
| Electroplated                        | Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.  |
| Mill-Galvanized (Pre-Galvanized)     | Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present. |
| Hot Dip Galvanized After Fabrication | Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications. ASTM A 123, ASTM A153, or ASTM A386.                       |
| Special Coatings                     | Other commercially available finishes can be supplied per specification when required to protect applications.   |

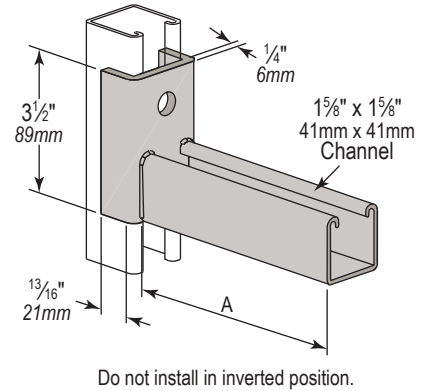
See page 23 for Material or Finish ordering codes for part numbers.



## 1-Hole Wrap Around Channel Bracket, Slot Up

| SPECIFYING Brand & Part No. | A           | Design Uniform Load Lbs. (kN) |                           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-------------------------------|---------------------------|--------------------------------|---------------|
|                             |             | 1-5/8" - 12 Gauge Channel     | 1-5/8" - 14 Gauge Channel | VERSABAR                       | FLORIDA STRUT |
| <b>W5641</b>                | 6" (152mm)  | 1,600 (7.12 kN)               | 1,200 (5.34 kN)           | VB1060                         | W5641         |
| <b>W5642</b>                | 12" (305mm) | 800 (3.56 kN)                 | 600 (2.67 kN)             | VB1120                         | W5642         |

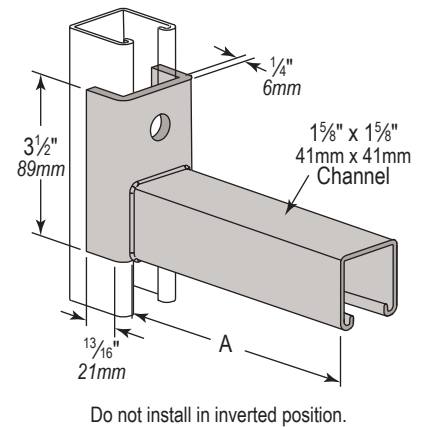
Design Uniform Load when attached to listed upright column.  
Do not install in inverted position.  
Safety Factor: 2-1/2



## 1-Hole Wrap Around Channel Bracket, Slot Down

| SPECIFYING Brand & Part No. | A           | Design Uniform Load Lbs. (kN) |                           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-------------------------------|---------------------------|--------------------------------|---------------|
|                             |             | 1-5/8" - 12 Gauge Channel     | 1-5/8" - 14 Gauge Channel | VERSABAR                       | FLORIDA STRUT |
| <b>W5645</b>                | 6" (152mm)  | 1,600 (7.12 kN)               | 1,200 (5.34 kN)           | VB1060D                        | W5645         |
| <b>W5646</b>                | 12" (305mm) | 800 (3.56 kN)                 | 600 (2.67 kN)             | VB1120D                        | W5646         |

Design Uniform Load when attached to listed upright column.  
Safety Factor: 2-1/2

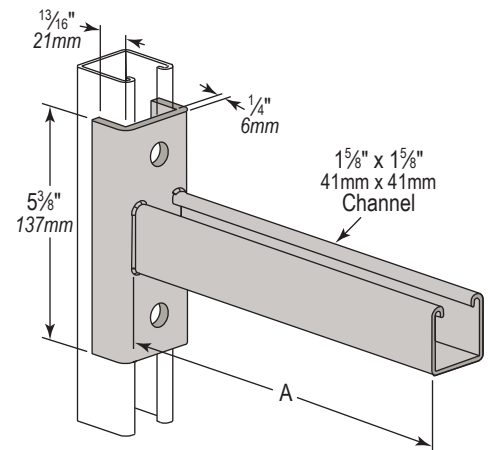


## 2-Hole Wrap Around Channel Bracket, Use Slot Up or Slot Down

Illustrated With Channel Up Bracket Arms are 1-5/8" Channel

| SPECIFYING Brand & Part No. | A           | Design Uniform Load Lbs. (kN)<br>Used With 1-5/8" - 12 Gauge Channel | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--|--------------------------------|---------------|
|                             |             |  | VERSABAR                       | FLORIDA STRUT |
| <b>W5647</b>                | 18" (457mm) | 500 (2.22 kN)  | VB1180                         | BR411800      |
| <b>W5648</b>                | 24" (610mm) | 350 (1.56 kN)  | VB1240                         | BR412400      |

Design Uniform Load when attached to listed upright column.



Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



# Channel Brackets

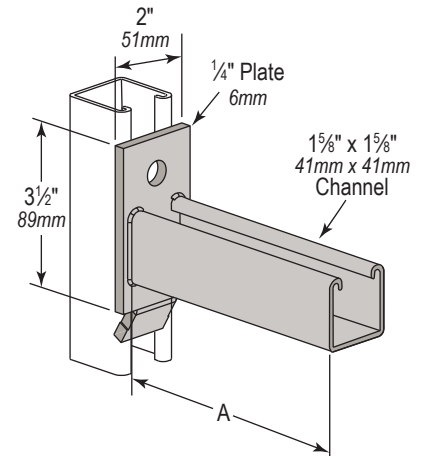


Standard Finish: Electro Galvanized (EG)

## Bracket Arms are 1-5/8" Channel

| SPECIFYING Brand & Part No. | A           | Design Uniform Load Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-------------------------------|--------------------------------|---------------|
|                             |             |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                               |                                |               |
| W5631                       | 6" (152mm)  | 1,250 (5.56 kN)               | VB1060X                        | BR430600      |
| W5632                       | 12" (305mm) | 750 (3.34 kN)                 | VB1120X                        | BR431200      |
| W5633M                      | 14" (305mm) | 500 (2.22 kN)                 | --                             | --            |
| W5633                       | 18" (457mm) | 500 (2.22 kN)                 | VB1180X                        | BR431800      |
| W5634                       | 24" (610mm) | 350 (1.56 kN)                 | VB1240X                        | BR432400      |

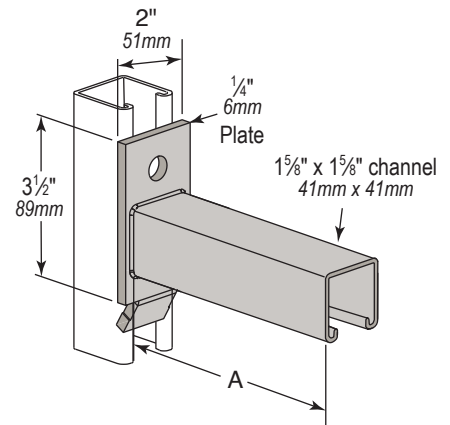
Design Uniform Load when attached to listed upright column.



## Bracket Arms are 1-5/8" Channel

| SPECIFYING Brand & Part No. | A           | Design Uniform Load Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-------------------------------|--------------------------------|---------------|
|                             |             |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                               |                                |               |
| W5635                       | 6" (152mm)  | 1,250 (5.56 kN)               | VB1060XD                       | BR440600      |
| W5636                       | 12" (305mm) | 750 (3.34 kN)                 | VB1120XD                       | BR441200      |
| W5637                       | 18" (457mm) | 500 (2.22 kN)                 | VB1180XD                       | BR441800      |
| W5638                       | 24" (610mm) | 350 (1.56 kN)                 | VB1240XD                       | BR442400      |

Design Uniform Load when attached to listed upright column.



Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" (6mm)



Introduction

Channel

Channel Nuts & Hardware

General Fittings

**Brackets**

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

Concrete Inserts

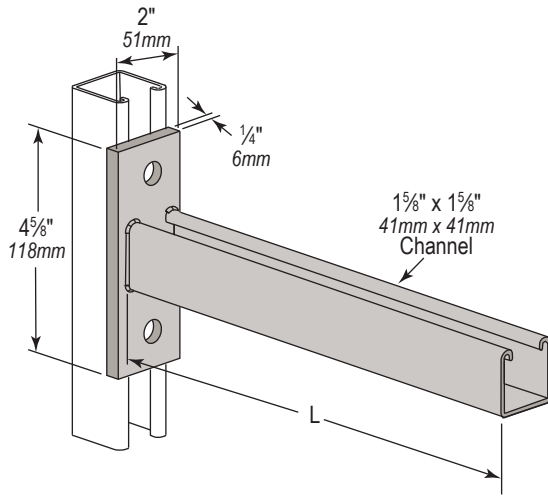
Rooftop Supports

Fiberglass System

Technical Data

Standard Finish: Electro Galvanized (EG)

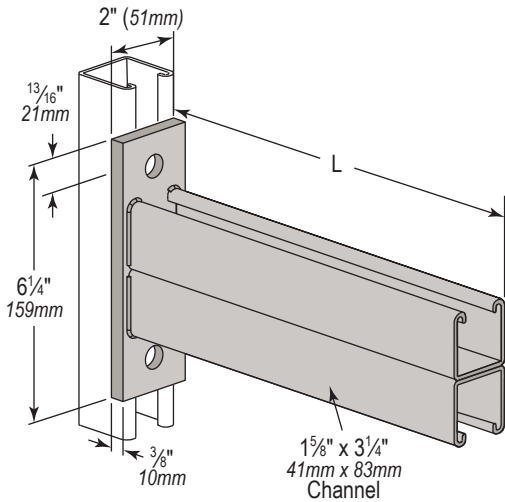
## 2-Hole, 1/4" Plate with 1-5/8" Channel Bracket Arms



| SPECIFYING Brand & Part No. | L           | Design Uniform Load Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-------------------------------|--------------------------------|---------------|
|                             |             |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                               |                                |               |
| <b>W5661</b>                | 6" (152mm)  | 1,250 (5.56 kN)               | VB1060FP                       | BR400600      |
| <b>W5661M9</b>              | 9" (229mm)  | 1,100 (4.45 kN)               | --                             | BR400900      |
| <b>W5662</b>                | 12" (305mm) | 750 (3.34 kN)                 | VB1120FP                       | BR401200      |
| <b>W5663</b>                | 18" (457mm) | 500 (2.22 kN)                 | VB1180FP                       | BR401800      |
| <b>W5664</b>                | 24" (610mm) | 350 (1.56 kN)                 | VB1240FP                       | BR402400      |

Design Uniform Load when attached to listed upright column.

## 2-Hole, 3/8" Plate with Double 1-5/8" Channel Bracket Arms



| SPECIFYING Brand & Part No. | L           | Design Uniform Load Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-------------------------------|--------------------------------|---------------|
|                             |             |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                               |                                |               |
| <b>W5652</b>                | 12" (305mm) | 1,800 (8.01 kN)               | VB11120                        | BR421200      |
| <b>W5653</b>                | 18" (457mm) | 1,200 (5.34 kN)               | VB11180                        | BR421800      |
| <b>W5654</b>                | 24" (610mm) | 1,000 (4.45 kN)               | VB11240                        | BR422400      |
| <b>W5655</b>                | 30" (762mm) | 800 (3.56 kN)                 | VB11300                        | BR423000      |
| <b>W5656</b>                | 36" (914mm) | 660 (2.94 kN)                 | VB11360                        | BR423600      |

Design Uniform Load when attached to listed upright column.

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)

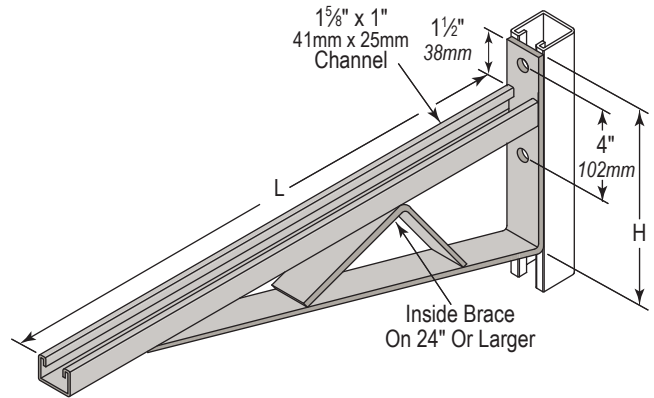


# Shelf Bracket



Standard Finish: Electro Galvanized (EG)

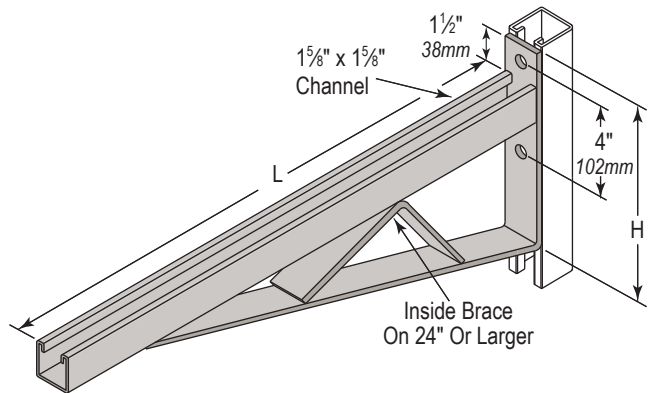
## 2-Hole Bracket Arms are 1" Channel



| SPECIFYING Brand & Part No. | L            | H               | Design Uniform Load Lbs. (kN)<br>1-5/8" x 1-5/8" 12 Gauge Channel | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------|-----------------|---|--------------------------------|---------------|
|                             |              |                 |   | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |              |                 |   |                                |               |
| W5682                       | 12" (305mm)  | 8-3/4" (222mm)  | 1,580 (7.02kN)  | VB4120                         | --            |
| W5683                       | 18" (475mm)  | 8-3/4" (222mm)  | 1,000 (4.45kN)  | VB4180                         | --            |
| W5684                       | 24" (610mm)  | 8-3/4" (222mm)  | 996 (4.43kN)  | VB4240                         | --            |
| W5685                       | 30" (762mm)  | 11-1/4" (286mm) | 924 (4.11kN)  | VB4300                         | --            |
| W5686                       | 36" (914mm)  | 11-1/4" (286mm) | 864 (3.84kN)  | VB4360                         | --            |
| W5687                       | 42" (1067mm) | 16" (406mm)     | 580 (2.58kN)  | VB4420                         | --            |
| W5688                       | 48" (1219mm) | 16" (406mm)     | 500 (2.22kN)  | VB4480                         | --            |

Design Uniform Load when attached to listed upright column.

## 2-Hole Bracket Arms are 1-5/8" Channel



| SPECIFYING Brand & Part No. | L           | H               | Design Uniform Load Lbs. (kN)<br>1-5/8" x 1-5/8" 12 Gauge Channel | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-----------------|---|--------------------------------|---------------|
|                             |             |                 |   | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                 |   |                                |               |
| W5692                       | 12" (305mm) | 8-3/4" (222mm)  | 1,450 (6.45 kN)   | --                             | BR451200      |
| W5693                       | 18" (457mm) | 8-3/4" (222mm)  | 900 (4.00 kN)   | --                             | BR451800      |
| W5694                       | 24" (610mm) | 8-3/4" (222mm)  | 900 (4.00 kN)   | --                             | BR452400      |
| W5695                       | 30" (762mm) | 11-1/4" (286mm) | 800 (3.56 kN)   | --                             | BR453000      |
| W5696                       | 36" (914mm) | 11-1/4" (286mm) | 750 (3.34 kN)   | --                             | BR453600      |

Design Uniform Load when attached to listed upright column.

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" (6mm)

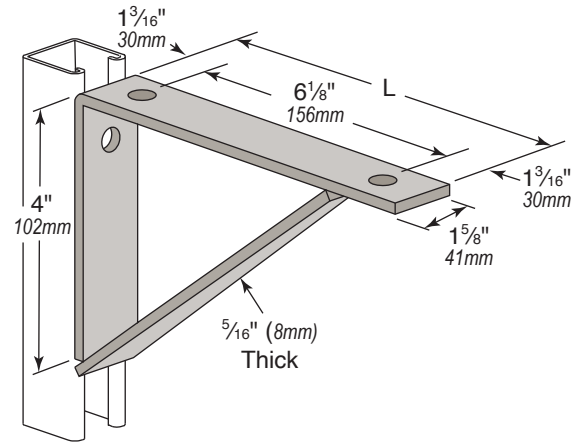


Standard Finish: Electro Galvanized (EG)

## 3-Hole Girder Style Bracket

| SPECIFYING Brand & Part No. | L               | Design Load Lbs. (kN) with 12 Ga. Strut | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------------|---|--------------------------------|---------------|
|                             |                 |   | VERSABAR                       | FLORIDA STRUT |
| <b>W5669</b>                | 8-1/2" (216mm)  | 850 (3.78 kN)                           | VB4085                         | BR200850      |
| <b>W5671</b>                | 10-1/2" (267mm) |   | VB4105                         | BR201050      |

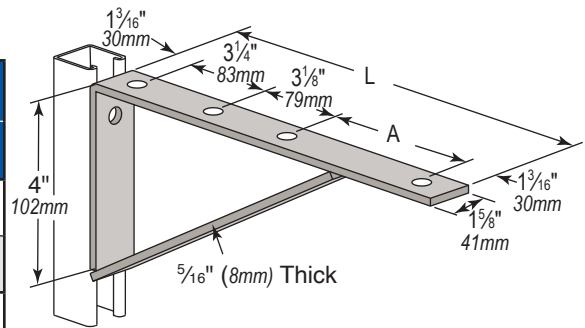
Design Uniform Load when attached to listed upright column.



## 5-Hole Girder Style Bracket

| SPECIFYING Brand & Part No. | A               | L              | Design Load Lbs. (kN) with 12 Ga. Strut | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------------|----------------|---|--------------------------------|---------------|
|                             |                 |                |   | VERSABAR                       | FLORIDA STRUT |
| <b>W5673</b>                | 12-1/2" (318mm) | 3-3/4" (95mm)  | 900 (4.00 kN)                           | VB4125                         | BR211250      |
| <b>W5675</b>                | 14-1/2" (369mm) | 5-3/4" (146mm) |   | VB4145                         | BR211450      |

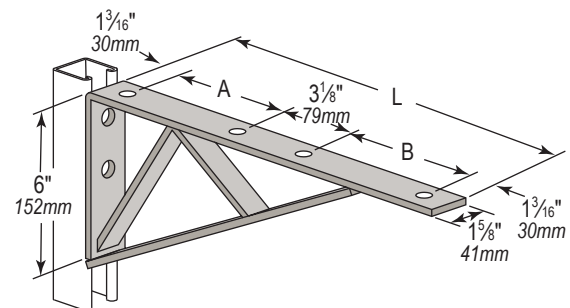
Design Uniform Load when attached to listed upright column.



## 6-Hole Bracket with Brace

| SPECIFYING Brand & Part No. | A              | B              | L               | Design Load Lbs. (kN) with 12 Ga. Strut | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|----------------|-----------------|---|--------------------------------|---------------|
|                             |                |                |                 |   | VERSABAR                       | FLORIDA STRUT |
| <b>W5677</b>                | 5-1/4" (133mm) | 5-3/4" (146mm) | 16-1/2" (419mm) | 1,200 (5.34 kN)                         | VB4165                         | BR221650      |
| <b>W5678</b>                | 5-1/4" (133mm) | 7-3/4" (197mm) | 18-1/2" (470mm) | 1,100 (4.89 kN)                         | VB4185                         | BR221850      |
| <b>W5679</b>                | 7-1/4" (184mm) | 7-3/4" (197mm) | 20-1/2" (521mm) | 900 (4.00 kN)                           | VB4205                         | BR222050      |

Design Uniform Load when attached to listed upright column.



Hole Diameter: 5/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



# Shelf Bracket

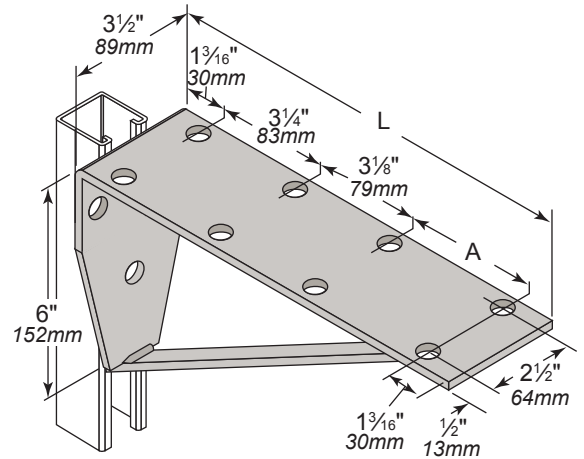


Standard Finish: Electro Galvanized (EG)

## 12-Hole Wide Girder Style Bracket

| SPECIFYING Brand & Part No. | A              | L               | Design Load Lbs. (kN) with 12 Ga. Strut | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|-----------------|---|--------------------------------|---------------|
|                             |                |                 |   | VERSABAR                       | FLORIDA STRUT |
| <b>W5673D</b>               | 3-3/4" (95mm)  | 12-1/2" (318mm) | 900 (4.00 kN)                           | VB4125D                        | --            |
| <b>W5675D</b>               | 5-3/4" (146mm) | 14-1/2" (369mm) |   | VB4145D                        | --            |

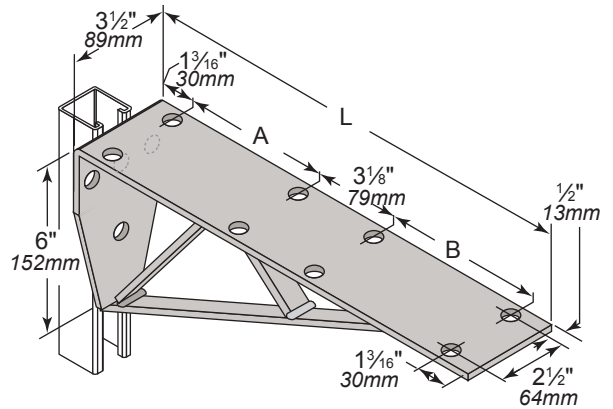
Design Uniform Load when attached to listed upright column.



## Wide Bracket with Brace

| SPECIFYING Brand & Part No. | A              | B              | L               | Design Load Lbs. (kN) with 12 Ga. Strut | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|----------------|-----------------|---|--------------------------------|---------------|
|                             |                |                |                 |   | VERSABAR                       | FLORIDA STRUT |
| <b>W5681</b>                | 5-1/4" (133mm) | 5-3/4" (146mm) | 16-1/2" (419mm) | 1,200 (5.34 kN)                         | VB4165D                        | --            |
| <b>W5678D</b>               | 5-1/4" (133mm) | 7-3/4" (197mm) | 18-1/2" (470mm) | 1,200 (5.34 kN)                         | VB4185D                        | --            |
| <b>W5679D</b>               | 7-1/4" (184mm) | 7-3/4" (197mm) | 20-1/2" (521mm) | 1,200 (5.34 kN)                         | VB4205D                        | --            |

Design Uniform Load when attached to listed upright column.



Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)

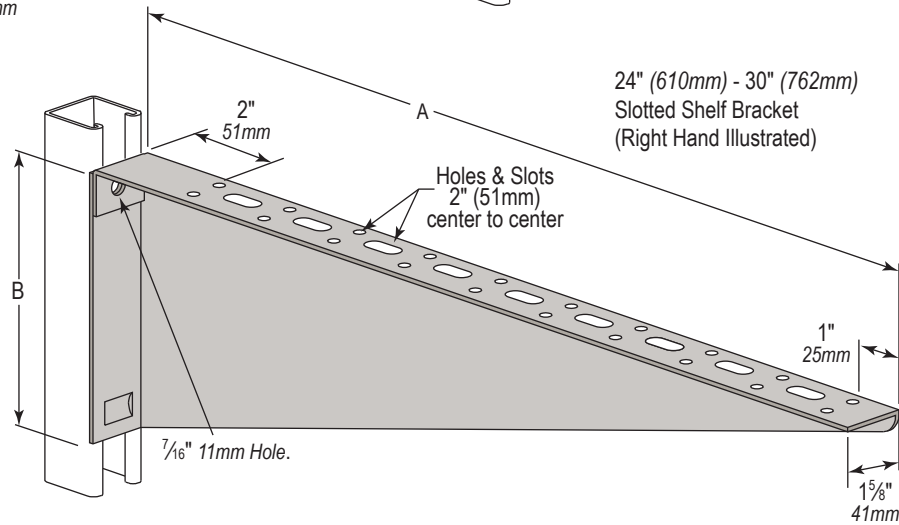
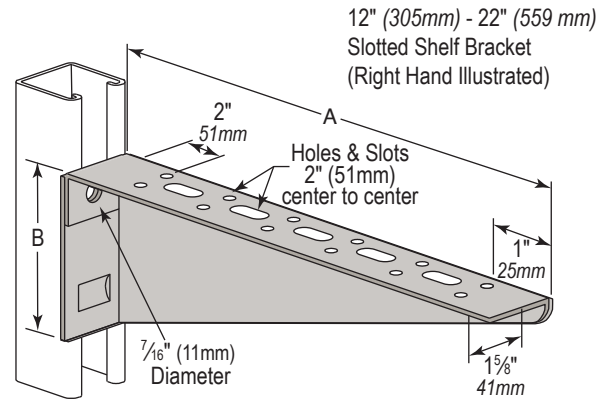
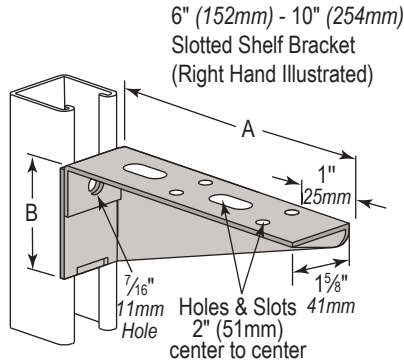




Standard Finish: Electro Galvanized (EG)

## Slotted Shelf Brackets

Brackets are 12ga steel, electro-galvanized.  
Furnished with  $\frac{3}{8}$ " x 1" (10mm x 25mm) slotted holes and  $\frac{9}{32}$ " (7mm) round holes



| Left Hand                   |                                |               | Right Hand                  |                                |               | A           | B                            | Design Uniform Load Lbs. (kN) |                           |
|-----------------------------|--------------------------------|---------------|-----------------------------|--------------------------------|---------------|-------------|------------------------------|-------------------------------|---------------------------|
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               | SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |             |                              | 1- $\frac{5}{8}$ " 12 Ga.     | 1- $\frac{5}{8}$ " 14 Ga. |
| WESANCO                     | VERSABAR                       | FLORIDA STRUT | WESANCO                     | VERSABAR                       | FLORIDA STRUT |             |                              |                               |                           |
| W5601                       | VB2106LSL                      | BR8L0600      | W5602                       | VB2106RSL                      | BR8R0600      | 6" (152mm)  | 1- $\frac{15}{16}$ " (49mm)  | 300<br>(1.33 kN)              | 250<br>(1.11 kN)          |
| W5603                       | VB2108LSL                      | BR8L0800      | W5604                       | VB2108RSL                      | BR8R0800      | 8" (203mm)  | 2- $\frac{7}{16}$ " (62mm)   |                               |                           |
| W5605                       | VB2110LSL                      | BR8L1000      | W5606                       | VB2110RSL                      | BR8R1000      | 10" (254mm) | 2- $\frac{15}{16}$ " (75mm)  |                               |                           |
| W5607                       | VB2112LSL                      | BR8L1200      | W5608                       | VB2112RSL                      | BR8R1200      | 12" (305mm) | 3- $\frac{7}{16}$ " (87mm)   | 300<br>(1.33 kN)              | 250<br>(1.11 kN)          |
| W5609                       | VB2114LSL                      | BR8L1400      | W5610                       | VB2114RSL                      | BR8R1400      | 14" (356mm) | 3- $\frac{15}{16}$ " (100mm) |                               |                           |
| W5611                       | VB2116LSL                      | BR8L1600      | W5612                       | VB2116RSL                      | BR8R1600      | 16" (406mm) | 4- $\frac{7}{16}$ " (113mm)  |                               |                           |
| W5613                       | VB2118LSL                      | BR8L1800      | W5614                       | VB2118RSL                      | BR8R1800      | 18" (457mm) | 4- $\frac{15}{16}$ " (125mm) |                               |                           |
| W5615                       | VB2120LSL                      | BR8L2000      | W5616                       | VB2120RSL                      | BR8R2000      | 20" (508mm) | 5- $\frac{7}{16}$ " (138mm)  |                               |                           |
| W5617                       | VB2122LSL                      | BR8L2200      | W5618                       | VB2122RSL                      | BR8R2200      | 22" (559mm) | 5- $\frac{15}{16}$ " (151mm) | 300<br>(1.33 kN)              | 250<br>(1.11 kN)          |
| W5619                       | VB2124LSL                      | BR8L2400      | W5620                       | VB2124RSL                      | BR8R2400      | 24" (610mm) | 6- $\frac{7}{16}$ " (164mm)  |                               |                           |
| W5621                       | VB2126LSL                      | BR8L2600      | W5622                       | VB2126RSL                      | BR8R2600      | 26" (660mm) | 6- $\frac{15}{16}$ " (176mm) |                               |                           |
| W5623                       | VB2128LSL                      | BR8L2800      | W5624                       | VB2128RSL                      | BR8R2800      | 28" (711mm) | 7- $\frac{7}{16}$ " (189mm)  | 300<br>(1.33 kN)              | 250<br>(1.11 kN)          |
| W5625                       | VB2130LSL                      | BR8L3000      | W5626                       | VB2130RSL                      | BR8R3000      | 30" (762mm) | 7- $\frac{15}{16}$ " (202mm) |                               |                           |

Design Uniform Load when attached to listed upright column.  
Safety Factor 2- $\frac{1}{2}$

Note: When brackets are used for mechanical supports, load capacities should conform to American Standard Code for Pressure Piping.

Hole Diameter:  $\frac{9}{16}$ " (14mm); Hole Spacing - From End:  $\frac{13}{16}$ " (21mm); Hole Spacing - On Center: 1- $\frac{7}{8}$ " (48mm); Width: 1- $\frac{5}{8}$ " (41mm); Thickness:  $\frac{1}{4}$ " (6mm)

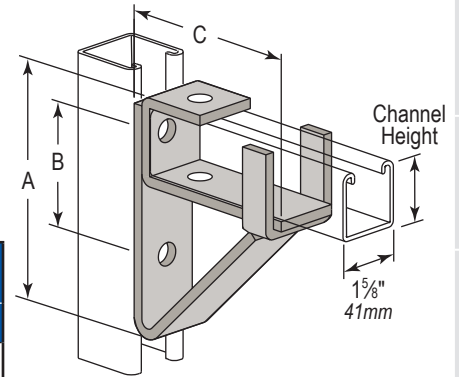


# Reel Supports



Standard Finish: Electro Galvanized (EG)

## Cantilever Support Bracket



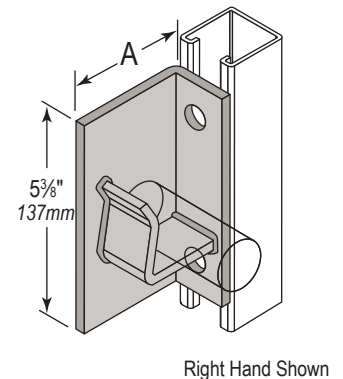
| SPECIFYING Brand & Part No. | Channel Height | A              | B              | C              | Design Load Lbs. (kN) with 12 Ga. Strut | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|----------------|----------------|----------------|---|--------------------------------|---------------|
|                             |                |                |                |                |   | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W5651        | 1-5/8" (41mm)  | 5-7/8" (149mm) | 3" (76mm)      | 4-3/4" (121mm) | 5,800 (655 kN)                          | VF7301                         | BR30          |
| W5650                       | 3-1/4" (83mm)  | 7-1/2" (191mm) | 4-5/8" (118mm) |                |   | VF7301B                        | BR31          |

Max load applies to bracket only, not the strength of the strut arm.

## Single Axle Cable Reel Support

| SPECIFYING Brand & Part No. | A             | Axle          | Description | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|---------------|-------------|--------------------------------|---------------|
|                             |               |               |             | VERSABAR                       | FLORIDA STRUT |
| W5639L                      | 3" (76mm)     | 1-1/4" (32mm) | Left Hand   | VF7207L                        | --            |
| W5640L                      | 3-5/8" (92mm) | 2" (51mm)     |             | VF7208L                        | --            |
| W5639R                      | 3" (76mm)     | 1-1/4" (32mm) | Right Hand  | VF7207R                        | --            |
| W5640R                      | 3-5/8" (92mm) | 2" (51mm)     |             | VF7208R                        | --            |

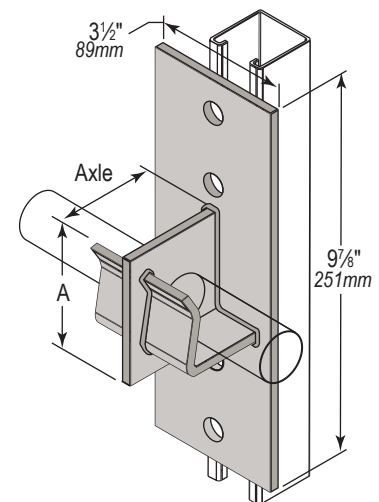
Design Uniform Load when attached to listed upright column.



## Double Axle Cable Reel Support

| SPECIFYING Brand & Part No. | A             | Axle          | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|---------------|--------------------------------|---------------|
|                             |               |               | VERSABAR                       | FLORIDA STRUT |
| W5643                       | 3-1/4" (83mm) | 2-5/8" (67mm) | VF7407                         | --            |
| W5644                       | 3-1/8" (79mm) | 3-1/2" (89mm) | VF7408                         | --            |

Design Uniform Load when attached to listed upright column.



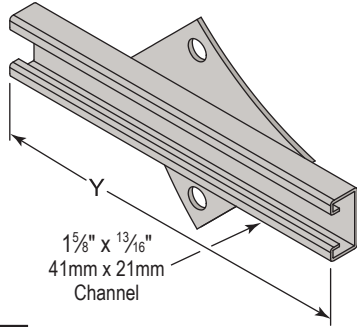
Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



Standard Finish: Hot Dip Galvanized (HG)

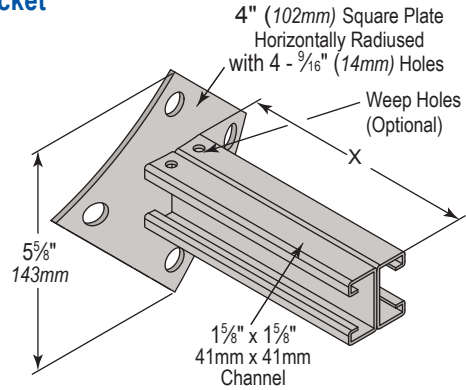
## Low Profile Diamond Back with Horizontal Strut Riser.

Standard channel 4" square plate horizontally radiused (5-5/8" nominal corner to corner).  
Welded top and bottom at apex of radiused back plate.



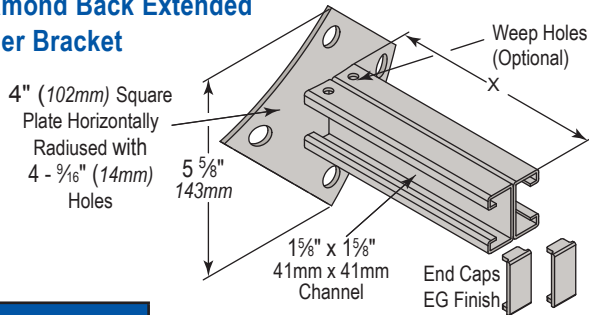
| SPECIFYING Brand & Part No. | Y           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
|                             |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                                |               |
| W10196                      | 6" (152mm)  | --                             | --            |
| W10198                      | 8" (203mm)  | --                             | --            |
| W101910                     | 10" (254mm) | --                             | --            |
| W101912                     | 12" (305mm) | --                             | --            |
| W101916                     | 16" (406mm) | --                             | --            |
| W101918                     | 18" (457mm) | --                             | --            |
| W101924                     | 24" (610mm) | --                             | --            |

## Diamond Back Extended Riser Bracket



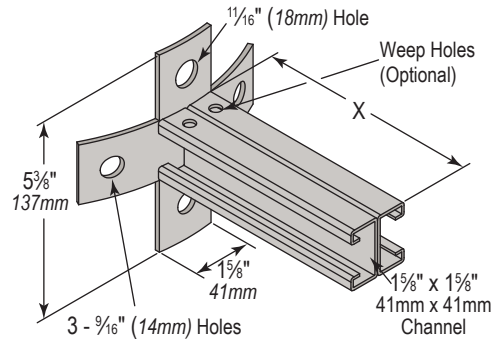
| SPECIFYING Brand & Part No. | X           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
|                             |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                                |               |
| W10106                      | 6" (152mm)  | --                             | --            |
| W10108                      | 8" (203mm)  | --                             | --            |
| W101010                     | 10" (254mm) | --                             | --            |
| W101012                     | 12" (305mm) | --                             | --            |
| W101016                     | 16" (406mm) | --                             | --            |
| W101018                     | 18" (457mm) | --                             | --            |
| W101024                     | 24" (610mm) | --                             | --            |

## Diamond Back Extended Riser Bracket



| SPECIFYING Brand & Part No. | X             | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|--------------------------------|---------------|
|                             |               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |               |                                |               |
| W10116                      | 6" (152mm)    | --                             | --            |
| W10118                      | 8" (203mm)    | --                             | --            |
| W101110                     | 10" (254mm)   | --                             | --            |
| W101112                     | 12" (305mm)   | --                             | --            |
| W101116                     | 16" (406mm)   | --                             | --            |
| W101118                     | 18" (457mm)   | --                             | --            |
| W101124                     | 24" (610mm)   | --                             | --            |
| W101130                     | 30" (762mm)   | --                             | --            |
| W101136                     | 36" (914mm)   | --                             | --            |
| W101140                     | 40" (1,016mm) | --                             | --            |
| W101148                     | 48" (1,219mm) | --                             | --            |

## Cross Back Extended Riser Bracket



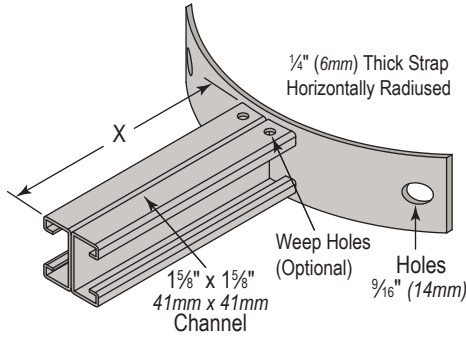
| SPECIFYING Brand & Part No. | X           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
|                             |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                                |               |
| W10156                      | 6" (152mm)  | --                             | --            |
| W10158                      | 8" (203mm)  | --                             | --            |
| W101510                     | 10" (254mm) | --                             | --            |
| W101512                     | 12" (305mm) | --                             | --            |
| W101516                     | 16" (406mm) | --                             | --            |
| W101518                     | 18" (457mm) | --                             | --            |
| W101524                     | 24" (610mm) | --                             | --            |

Hole Diameter: 3/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)  
Typical: Weep Holes top and bottom (optional), Appropriate (hot dipped galvanized) end caps available on any unit (optional)



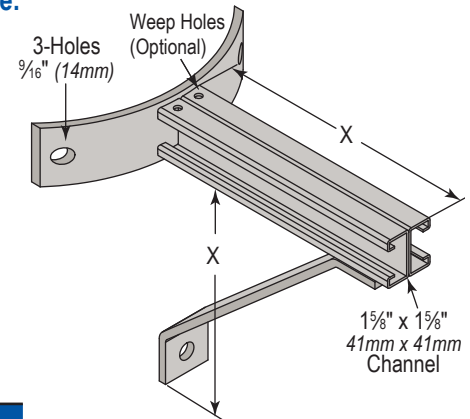
Standard Finish: Hot Dip Galvanized (HG)

## Strap Back Extended Riser Bracket



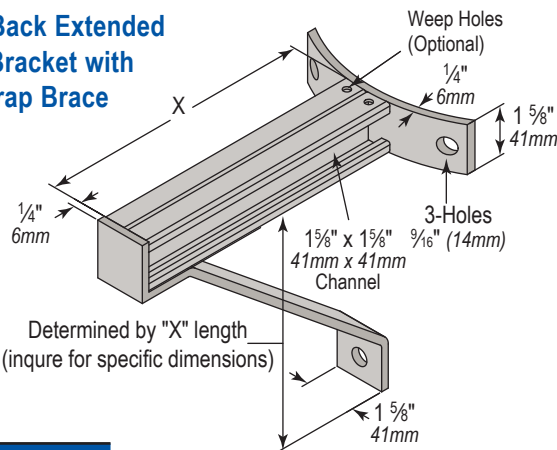
| SPECIFYING Brand & Part No. | X           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
|                             |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                                |               |
| W10126                      | 6" (152mm)  | --                             | --            |
| W10128                      | 8" (203mm)  | --                             | --            |
| W101210                     | 10" (254mm) | --                             | --            |
| W101212                     | 12" (305mm) | --                             | --            |
| W101216                     | 16" (406mm) | --                             | --            |
| W101218                     | 18" (457mm) | --                             | --            |
| W101224                     | 24" (610mm) | --                             | --            |

## Strap Back Extended Riser Bracket with Bottom Attached Brace.



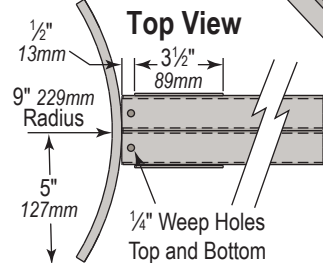
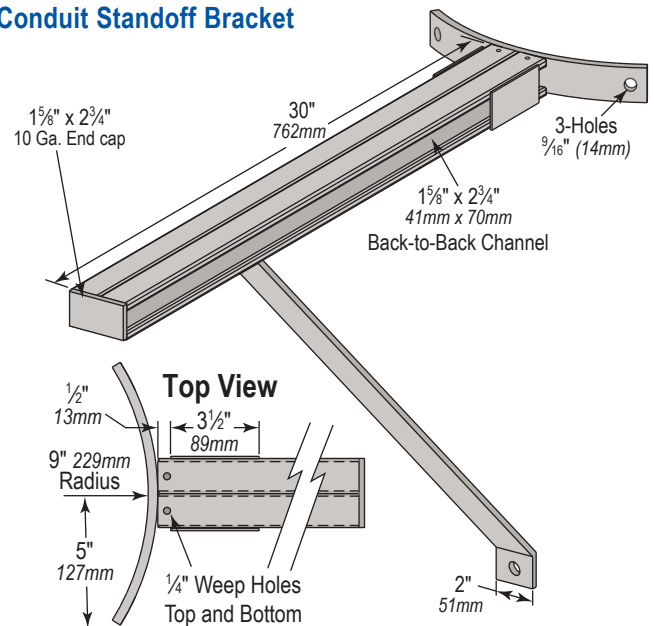
| SPECIFYING Brand & Part No. | X           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
|                             |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                                |               |
| W10136                      | 6" (152mm)  | --                             | --            |
| W10138                      | 8" (203mm)  | --                             | --            |
| W101310                     | 10" (254mm) | --                             | --            |
| W101312                     | 12" (305mm) | --                             | --            |
| W101316                     | 16" (406mm) | --                             | --            |
| W101318                     | 18" (457mm) | --                             | --            |
| W101324                     | 24" (610mm) | --                             | --            |

## Strap Back Extended Riser Bracket with End Wrap Brace



| SPECIFYING Brand & Part No. | X           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
|                             |             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                                |               |
| W10166                      | 6" (152mm)  | --                             | --            |
| W10168                      | 8" (203mm)  | --                             | --            |
| W101610                     | 10" (254mm) | --                             | --            |
| W101612                     | 12" (305mm) | --                             | --            |
| W101616                     | 16" (406mm) | --                             | --            |
| W101618                     | 18" (457mm) | --                             | --            |
| W101624                     | 24" (610mm) | --                             | --            |

## Conduit Standoff Bracket



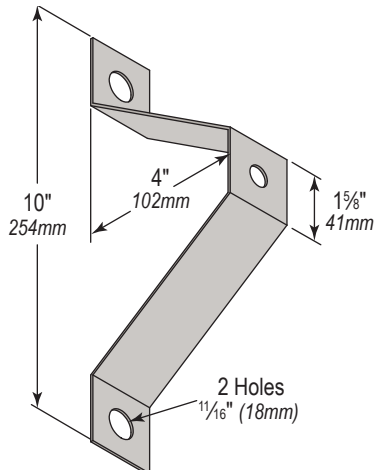
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                                |               |
| WSF101668                   | --                             | --            |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)  
 Typical: Weep Holes top and bottom (optional), Appropriate (hot dipped galvanized) end caps available on any unit (optional)



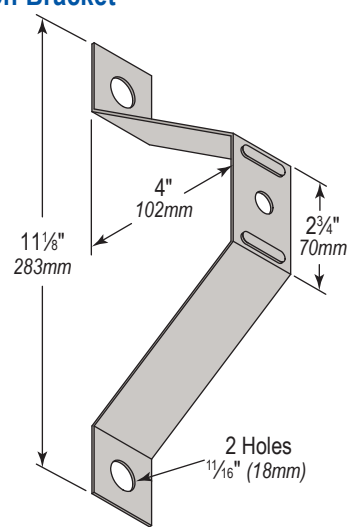
Standard Finish: Hot Dip Galvanized (HG)

## Bracket



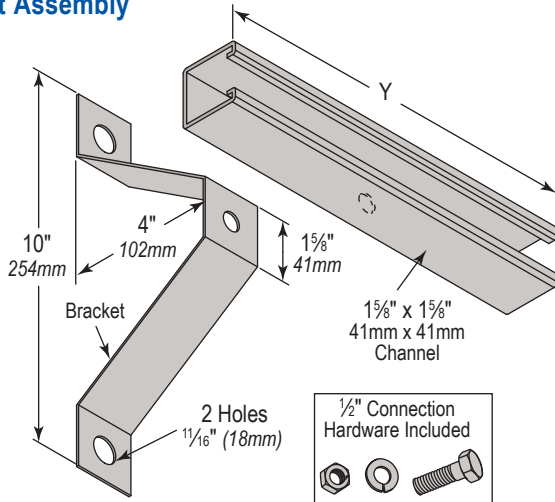
| SPECIFYING Brand & Part No. |    | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----|--------------------------------|---------------|
| WESANCO                     |    | VERSABAR                       | FLORIDA STRUT |
| W1017                       | -- | --                             | --            |

## Anti-Rotation Bracket



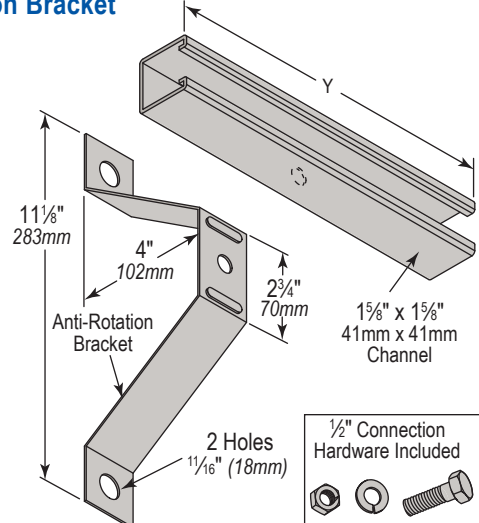
| SPECIFYING Brand & Part No. |    | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----|--------------------------------|---------------|
| WESANCO                     |    | VERSABAR                       | FLORIDA STRUT |
| W1017AR                     | -- | --                             | --            |

## Bracket Assembly



| SPECIFYING Brand & Part No. | Y           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
|                             |             | VERSABAR                       | FLORIDA STRUT |
| WESANCO                     |             |                                |               |
| W1017A6                     | 6" (152mm)  | --                             | --            |
| W1017A8                     | 8" (203mm)  | --                             | --            |
| W1017A10                    | 10" (254mm) | --                             | --            |
| W1017A12                    | 12" (305mm) | --                             | --            |
| W1017A16                    | 16" (406mm) | --                             | --            |
| W1017A18                    | 18" (457mm) | --                             | --            |
| W1017A24                    | 24" (610mm) | --                             | --            |

## Anti-Rotation Bracket Assembly



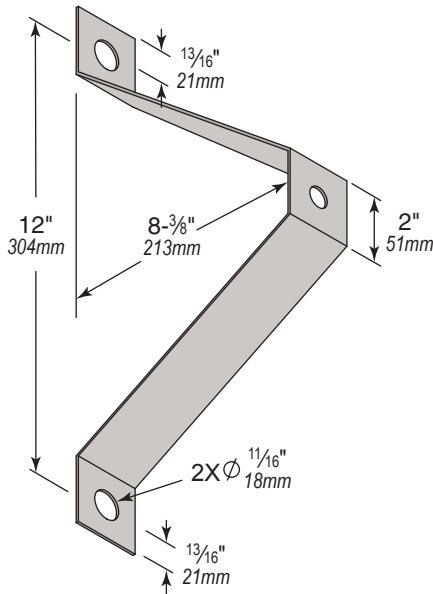
| SPECIFYING Brand & Part No. | Y           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
|                             |             | VERSABAR                       | FLORIDA STRUT |
| WESANCO                     |             |                                |               |
| W1017ARA6                   | 6" (152mm)  | --                             | --            |
| W1017ARA8                   | 8" (203mm)  | --                             | --            |
| W1017ARA10                  | 10" (254mm) | --                             | --            |
| W1017ARA12                  | 12" (305mm) | --                             | --            |
| W1017ARA16                  | 16" (406mm) | --                             | --            |
| W1017ARA18                  | 18" (457mm) | --                             | --            |
| W1017ARA24                  | 24" (610mm) | --                             | --            |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)  
 Typical: Weep Holes top and bottom (optional), Appropriate (hot dipped galvanized) end caps available on any unit (optional)



Standard Finish: Hot Dip Galvanized (HG)

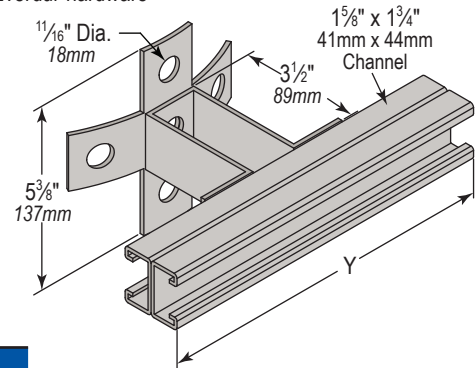
## Large Bracket



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| WESANCO                     | VERSABAR                       | FLORIDA STRUT |
| W1017E                      | --                             | --            |

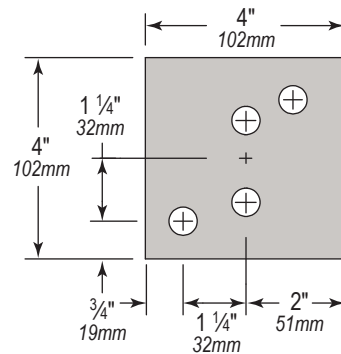
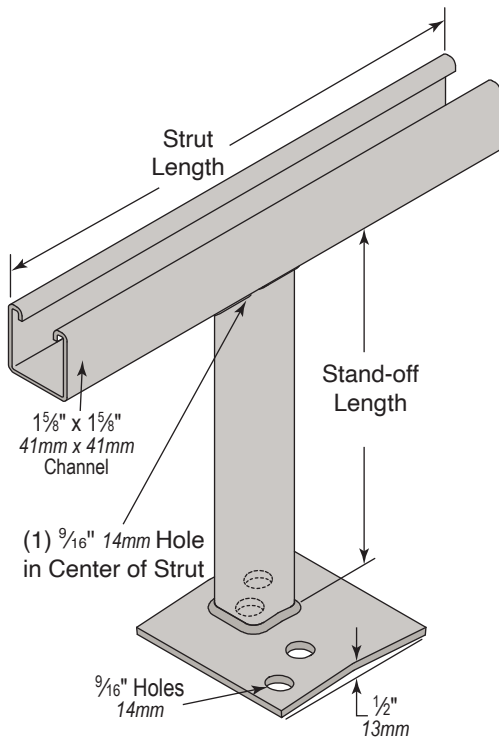
## Diamond Back Extended Riser Bracket with Horizontal Strut

Also available W1007 E-Y with (3) W6162-HG; each clamp with Everdur hardware



| SPECIFYING Brand & Part No. | Y           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|--------------------------------|---------------|
|                             |             | VERSABAR                       | FLORIDA STRUT |
| WESANCO                     |             |                                |               |
| W10076                      | 6" (152mm)  | --                             | --            |
| W10078                      | 8" (203mm)  | --                             | --            |
| W100710                     | 10" (254mm) | --                             | --            |
| W100712                     | 12" (305mm) | --                             | --            |
| W100716                     | 16" (406mm) | --                             | --            |
| W100718                     | 18" (457mm) | --                             | --            |
| W100724                     | 24" (610mm) | --                             | --            |

## Square Tube Stand Off



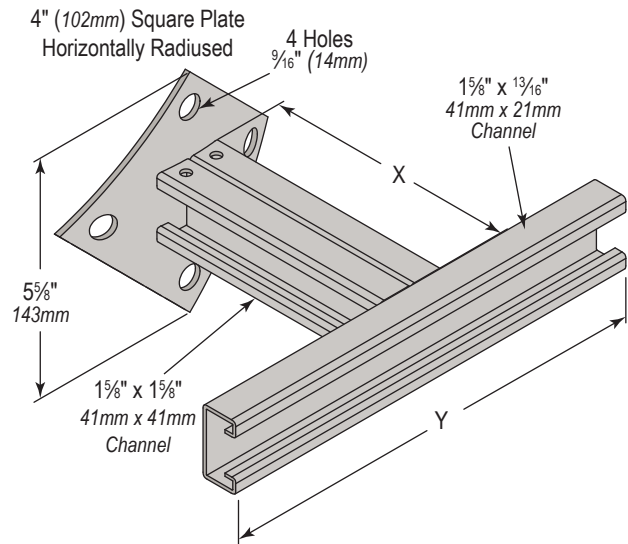
| SPECIFYING Brand & Part No. | Stand-off Length | Strut Length | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------------|--------------|--------------------------------|---------------|
|                             |                  |              | VERSABAR                       | FLORIDA STRUT |
| WESANCO                     |                  |              |                                |               |
| W102281/8                   | 8 1/8" (206mm)   | 12" (305mm)  | --                             | --            |
| W102281/8M                  | 8 1/8" (206mm)   | 16" (406mm)  | --                             | --            |
| W102210X12                  | 10" (254mm)      | 12" (305mm)  | --                             | --            |
| W102210X16                  | 10" (254mm)      | 16" (406mm)  | --                             | --            |
| W102212X12                  | 12" (305mm)      | 12" (305mm)  | --                             | --            |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)  
 Typical: Weep Holes top and bottom (optional), Appropriate (hot dipped galvanized) end caps available on any unit (optional)





## Extended Profile Diamond Back with Horizontal Riser Strut



| SPECIFYING Brand & Part No. | X           | Y           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-------------|--------------------------------|---------------|
|                             |             |             | VERSABAR                       | FLORIDA STRUT |
| WESANCO                     |             |             |                                |               |
| W102166                     | 6" (152mm)  | 6" (152mm)  | --                             | --            |
| W102168                     |             | 8" (203mm)  | --                             | --            |
| W1021610                    |             | 10" (254mm) | --                             | --            |
| W1021612                    |             | 12" (305mm) | --                             | --            |
| W1021616                    |             | 16" (406mm) | --                             | --            |
| W1021618                    |             | 18" (457mm) | --                             | --            |
| W1021624                    |             | 24" (610mm) | --                             | --            |
| W102186                     | 8" (203mm)  | 6" (152mm)  | --                             | --            |
| W102188                     |             | 8" (203mm)  | --                             | --            |
| W1021810                    |             | 10" (254mm) | --                             | --            |
| W1021812                    |             | 12" (305mm) | --                             | --            |
| W1021816                    |             | 16" (406mm) | --                             | --            |
| W1021818                    |             | 18" (457mm) | --                             | --            |
| W1021824                    |             | 24" (610mm) | --                             | --            |
| W1021106                    | 10" (254mm) | 6" (152mm)  | --                             | --            |
| W1021108                    |             | 8" (203mm)  | --                             | --            |
| W10211010                   |             | 10" (254mm) | --                             | --            |
| W10211012                   |             | 12" (305mm) | --                             | --            |
| W10211016                   |             | 16" (406mm) | --                             | --            |
| W10211018                   |             | 18" (457mm) | --                             | --            |
| W10211024                   |             | 24" (610mm) | --                             | --            |
| W1021126                    | 12" (305mm) | 6" (152mm)  | --                             | --            |
| W1021128                    |             | 8" (203mm)  | --                             | --            |
| W10211210                   |             | 10" (254mm) | --                             | --            |
| W10211212                   |             | 12" (305mm) | --                             | --            |
| W10211216                   |             | 16" (406mm) | --                             | --            |
| W10211218                   |             | 18" (457mm) | --                             | --            |
| W10211224                   |             | 24" (610mm) | --                             | --            |

| SPECIFYING Brand & Part No. | X           | Y           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-------------|--------------------------------|---------------|
|                             |             |             | VERSABAR                       | FLORIDA STRUT |
| WESANCO                     |             |             |                                |               |
| W1021166                    | 16" (406mm) | 6" (152mm)  | --                             | --            |
| W1021168                    |             | 8" (203mm)  | --                             | --            |
| W10211610                   |             | 10" (254mm) | --                             | --            |
| W10211612                   |             | 12" (305mm) | --                             | --            |
| W10211616                   |             | 16" (406mm) | --                             | --            |
| W10211618                   |             | 18" (457mm) | --                             | --            |
| W10211624                   |             | 24" (610mm) | --                             | --            |
| W1021186                    | 18" (457mm) | 6" (152mm)  | --                             | --            |
| W1021188                    |             | 8" (203mm)  | --                             | --            |
| W10211810                   |             | 10" (254mm) | --                             | --            |
| W10211812                   |             | 12" (305mm) | --                             | --            |
| W10211816                   |             | 16" (406mm) | --                             | --            |
| W10211818                   |             | 18" (457mm) | --                             | --            |
| W10211824                   |             | 24" (610mm) | --                             | --            |
| W1021246                    | 24" (610mm) | 6" (152mm)  | --                             | --            |
| W1021248                    |             | 8" (203mm)  | --                             | --            |
| W10212410                   |             | 10" (254mm) | --                             | --            |
| W10212412                   |             | 12" (305mm) | --                             | --            |
| W10212416                   |             | 16" (406mm) | --                             | --            |
| W10212418                   |             | 18" (457mm) | --                             | --            |
| W10212424                   |             | 24" (610mm) | --                             | --            |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)  
 Typical: Weep Holes top and bottom (optional), Appropriate (hot dipped galvanized) end caps available on any unit (optional)

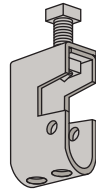


# Beam Clamps



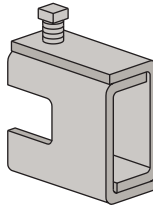
## All Purpose Beam Clamps

Page 128



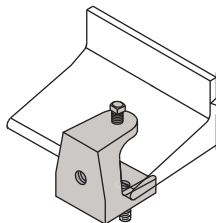
## Formed Steel Beam Clamps

Page 129



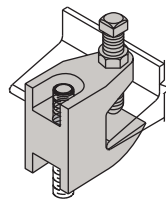
## Rod Suspension Beam Clamps

Pages 130 - 132



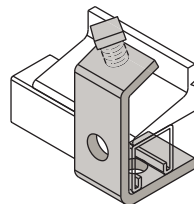
## Universal Beam Clamps

Pages 132 - 133



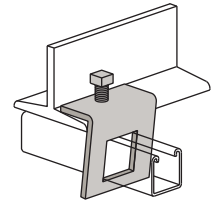
## C-Type & Z-Type Beam Clamps

Pages 133 - 134



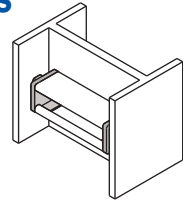
## Notched or Window Type Beam Clamps

Page 133



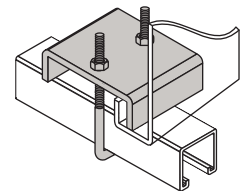
## Strut to Beam Spreader Caps

Pages 134 - 135



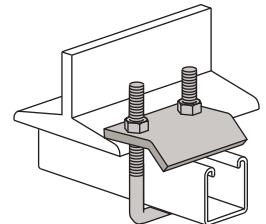
## Purlin Beam Clamps

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## U-Bolt Beam Clamps

Pages 136 - 140



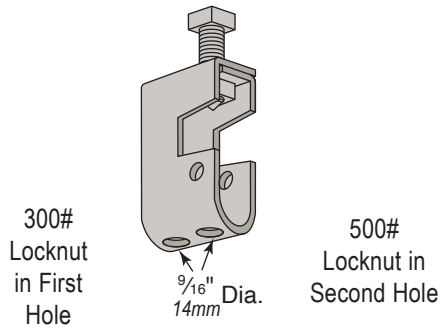
| Fittings Specifications  |                                    |  |
|--------------------------|------------------------------------|--|
| Material                 | ASTM                               | ASTM Description   |
| Hot Rolled Plate         | A 575, A 1011, A 1018, A 576, A638 | Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.                          |
| Fitting: Steel           | A 366, A 36                        | Steel carbon, cold rolled sheet, commercial quality structural steel.                                |
| Strip Steel: Pipe Clamps | A 569                              | Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.                          |
| Stainless Steel          | A 240 TYPE 304                     | Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel. |
|                          | A 240 TYPE 316                     |  |
| Aluminum                 | B 221                              | Aluminum alloy extruded bar, rod, wire, shape and tube.  |

| Fitting Finish Specifications        |  |
|--------------------------------------|--|
| Finish                               | Description  |
| Paint-Green Powder Coating           | A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.   |
| Electroplated                        | Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.  |
| Mill-Galvanized (Pre-Galvanized)     | Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present. |
| Hot Dip Galvanized After Fabrication | Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications. ASTM A 123, ASTM A153, or ASTM A386.                       |
| Special Coatings                     | Other commercially available finishes can be supplied per specification when required to protect applications.   |

See page 23 for Material or Finish ordering codes for part numbers.

Standard Finish: Electro Galvanized (EG)

## All Purpose Beam Clamp



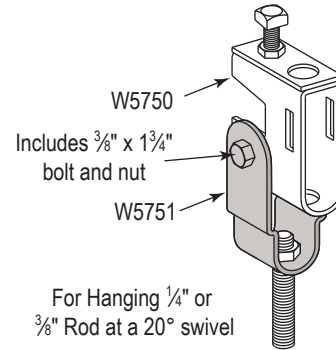
Provides for hanging rod directly below set screw. A 20° swivel is possible using 1/4" or 3/8" rod. Alternate use provides 1/4", 3/8" or 1/2" rod to be extended from the top to the bottom of the clamp on the end opposite the set screw. A 1/4" flat washer must be used with 1/4" rod.

| Position | Design Load        |
|----------|--------------------|
| A        | 500 Lbs. (2.22 kN) |
| B        | 300 Lbs. (1.33 kN) |

| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| W5750                       | VX1000A                        | BC10          |

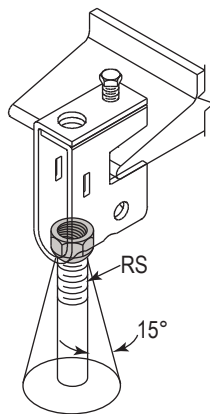
## Beam Clamp Swivel Adapter

For use with 1/4", 3/8" or 1/2" rod (6mm, 8mm or 10mm). If swivel is required use W5753-25 - W5753-50 Swivel Nut.



| SPECIFYING Brand & Part No. | Design Load        | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------|--------------------------------|---------------|
|                             |                    | VERSABAR                       | FLORIDA STRUT |
| W5751                       | 500 Lbs. (2.22 kN) | VX1090A                        | BC14          |

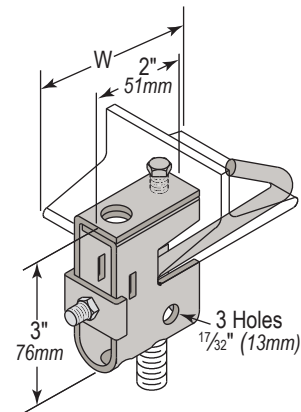
## Swivel Nut for use with All Purpose Beam Clamp



| SPECIFYING Brand & Part No. | Rod Size | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------|--------------------------------|---------------|
|                             |          | VERSABAR                       | FLORIDA STRUT |
| W5753-25                    | 1/4"-20  | --                             | BC120025      |
| W5753-37                    | 3/8"-16  | --                             | BC120037      |
| W5753-50                    | 1/2"-13  | --                             | BC120050      |

## Beam Clamp Formed Steel with J-Hook

Includes: Clamp, J-Hook, 3/8" hex nut and clip.



| SPECIFYING Brand & Part No. | W                          | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------------------|--------------------------------|---------------|
|                             |                            | VERSABAR                       | FLORIDA STRUT |
| W5752-6                     | 3" thru 6" (76 to 152mm)   | VX1000B                        | BC110600      |
| W5752-9                     | 6" thru 9" (152 to 228mm)  | --                             | BC110900      |
| W5752-10                    | 6" thru 10" (152 to 254mm) | VX1000C                        | --            |
| W5752-12                    | 9" thru 12" (228 to 305mm) | --                             | BC111200      |

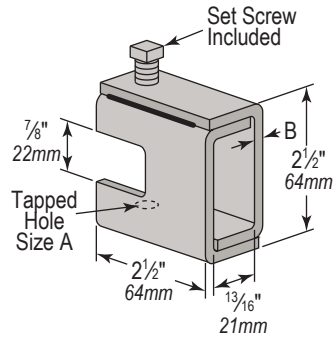
Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam. It is recommended that the beam be dimpled at set screw contact location.



Standard Finish: Electro Galvanized (EG)

## Formed Steel Beam Clamp

Maximum flange thickness  $\frac{7}{8}$ " 22mm

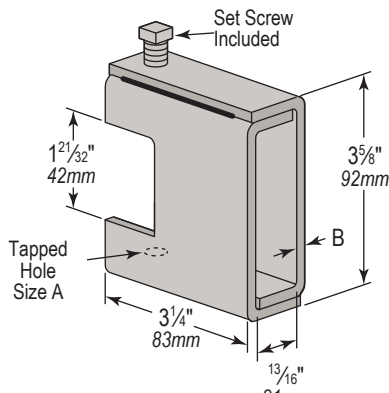


Bottom Rod against Beam (recommended)

| SPECIFYING Brand & Part No. | A        | B           | Set Screw     | Allowable Load Lbs. (kN) (ea.) | DISCONTINUED Brands & Part No. |          |
|-----------------------------|----------|-------------|---------------|--------------------------------|--------------------------------|----------|
|                             |          |             |               |                                | WESANCO                        | VERSABAR |
| W5721                       | 1/4"-20  | 1/8" (3mm)  | 3/8" x 1-1/2" | 650 (2.89 kN)                  | VX7002A                        | --       |
| W5722                       | 5/16"-18 |             |               |                                | VX7003A                        | --       |
| W5723                       | 3/8"-16  |             |               |                                | VX7004A                        | BC150037 |
| W5724                       | 3/8"-16  | 3/16" (5mm) | 1/2" x 1-1/2" | 1,100 (4.89 kN)                | VX7005A                        | BC160037 |
| W5725                       | 1/2"-13  |             |               |                                | VX7006A                        | BC150050 |
| W5726                       | 1/2"-13  | 1/4" (6mm)  | 1/2" x 1-1/2" | 1,600 (7.12 kN)                | VX7007A                        | BC160050 |
| W5727                       | 5/8"-11  |             |               |                                | VX7008A                        | BC150062 |
| W5728                       | 5/8"-11  |             |               |                                | VX7009A                        | BC160062 |
| W5729                       | 3/4"-10  | 5/8" (8mm)  | 5/8" x 1-1/2" | 2,400 (10.68 kN)               | VX7010A                        | --       |

## Formed Steel Heavy Duty Beam Clamp

For 3/4" thru 1-5/8" (19 thru 41mm) flange thickness

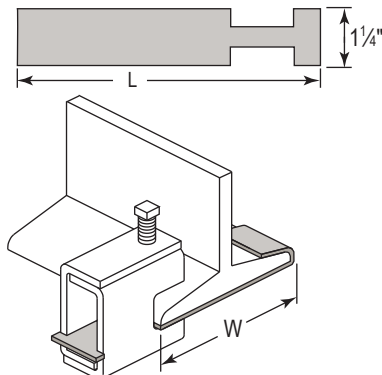


Bottom Rod against Beam (recommended)

| SPECIFYING Brand & Part No. | A        | B           | Set Screw | Allowable Load Lbs. (kN) (ea.) | DISCONTINUED Brands & Part No. |          |
|-----------------------------|----------|-------------|-----------|--------------------------------|--------------------------------|----------|
|                             |          |             |           |                                | WESANCO                        | VERSABAR |
| W5731                       | 1/4"-20  | 1/8" (3mm)  | 3/8" x 2" | 800 (3.56 kN)                  | VX7011A                        | --       |
| W5732                       | 5/16"-18 |             |           |                                | VX7012A                        | --       |
| W5733                       | 3/8"-16  |             |           |                                | VX7013A                        | BC170037 |
| W5734                       | 3/8"-16  | 3/16" (5mm) | 1/2" x 2" | 1,300 (5.78 kN)                | VX7014A                        | --       |
| W5735                       | 1/2"-13  |             |           |                                | VX7015A                        | BC170050 |
| W5736                       | 1/2"-13  | 1/4" (6mm)  | 1/2" x 2" | 1,900 (8.45 kN)                | VX7016A                        | --       |
| W5737                       | 5/8"-11  |             |           |                                | VX7017A                        | BC170062 |
| W5738                       | 5/8"-11  |             |           |                                | VX7018A                        | --       |
| W5739                       | 3/4"-10  | 5/8" (8mm)  | 5/8" x 2" | 2,800 (12.46 kN)               | VX7019A                        | --       |

## Beam Clamp Anchor Strap

Straps can be used as a secondary method of securing clamp to beam. After inserting strap and mounting clamp to beam, excess length is then bent back up and over beam.



| SPECIFYING Brand & Part No. | W * (Max)   | L           | DISCONTINUED Brands & Part No. |          |
|-----------------------------|-------------|-------------|--------------------------------|----------|
|                             |             |             | WESANCO                        | VERSABAR |
| W5781                       | 7" (178mm)  | 10" (254mm) | VX1006                         | --       |
| W5782                       | 9" (228mm)  | 12" (305mm) | VX1007                         | BC130900 |
| W5783                       | 11" (279mm) | 14" (356mm) | VX1008                         | --       |
| W5784                       | 12" (305mm) | 15" (381mm) | --                             | BC131200 |
| W5785                       | 13" (330mm) | 16" (406mm) | VX1009                         | --       |
| W5786                       | 15" (381mm) | 18" (457mm) | VX1010                         | BC131500 |

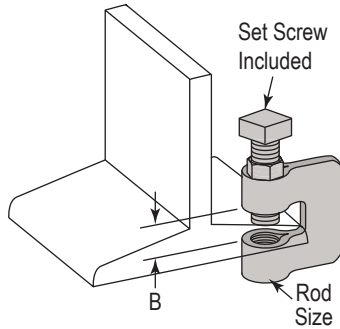
\* For beam flange thickness greater than 3/4" (19mm) use next larger flange width size.

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam. It is recommended that the beam be dimpled at set screw contact location.



Standard Finish: Electro Galvanized (EG)

## Beam Clamps

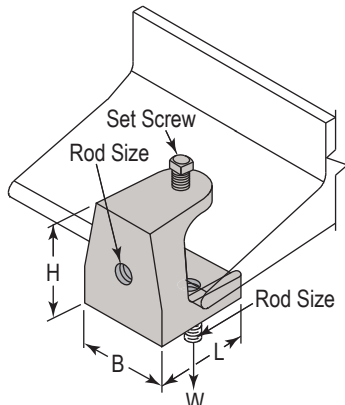


"Bottom Rod" Against Beam (Recommended)

| SPECIFYING Brand & Part No. | Rod Size | B              | Allowable Load Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------|----------------|--------------------------|--------------------------------|---------------|
|                             |          |                |                          | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |          |                |                          |                                |               |
| <b>W5741</b>                | 3/8"-16  | 3/4"<br>(19mm) | 400 (1.78 kN)            | VX111137                       | W5741         |
| <b>W5742</b>                | 1/2"-13  |                | 500 (2.22 kN)            | VX111150                       | W5742         |
| <b>W5743</b>                | 5/8"-11  |                | 550 (2.45 kN)            | VX111162                       | W5743         |
| <b>W5744</b>                | 3/4"-10  |                | 600 (2.67 kN)            | VX111175                       | W5744         |
| <b>W5745</b>                | 7/8"-9   | 1-1/16" (27mm) | 900 (4.00 kN)            | VX111187                       | W5745         |

\* For clamp with Locknut, add "N" to the part number ex: VX111137N

## Malleable Iron Rod Support Beam Clamps

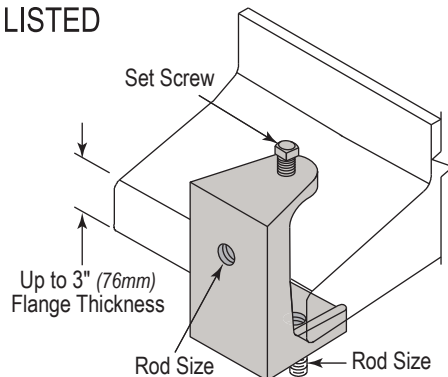


- Material: Malleable Iron
- Finish: Electro Galvanized (EG)
- Maximum flange thickness of 1/2" (13mm)
- Stainless 316 available by special order

| SPECIFYING Brand & Part No. | Rod Size | Set Screw Size | B                  | L                 | H                  | Max Load (W) lbs | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------|----------------|--------------------|-------------------|--------------------|------------------|--------------------------------|---------------|
|                             |          |                |                    |                   |                    |                  | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |          |                |                    |                   |                    |                  |                                |               |
| <b>BC9025</b>               | 1/4"-20  | 5/16"-18       | 1 3/16"<br>(33 mm) | 1 3/8"<br>(35 mm) | 1 3/8"<br>(35 mm)  | 335<br>(1.49kN)  | VX9004                         | BC900025      |
| <b>BC9037</b>               | 3/8"-16  | 1/2"-13        | 2 1/16"<br>(52 mm) | 1 7/8"<br>(48 mm) | 1 3/4"<br>(44 mm)  | 525<br>(2.34kN)  | VX9005                         | BC900037      |
| <b>BC9050</b>               | 1/2"-13  | 1/2"-13        | 2 1/2"<br>(64 mm)  | 2 3/8"<br>(60 mm) | 2 3/16"<br>(56 mm) | 750<br>(3.34kN)  | VX9006                         | BC900050      |

## Wide Mouth Rod Suspension Beam Clamps

Accepts up to 3" Thick Flanges



- Material: Malleable Iron
- Finish: Bright Zinc
- Maximum flange thickness of 3" (76mm)

| SPECIFYING Brand & Part No. | Rod Size | Set Screw Size    | Max Work Load lbs kN | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------|-------------------|----------------------|--------------------------------|---------------|
|                             |          |                   |                      | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |          |                   |                      |                                |               |
| <b>BC9325</b>               | 1/4"-20  | 5/16"-18 x 2 1/2" | 200 (0.89kN)         | VX9004WM                       | --            |
| <b>BC9337</b>               | 3/8"-16  | 3/8"-16 x 2 1/2"  | 300 (1.33kN)         | VX9005WM                       | --            |
| <b>BC9350</b>               | 1/2"-13  | 1/2"-13 x 2 1/2"  | 400 (1.78kN)         | VX9006WM                       | --            |

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam. It is recommended that the beam be dimpled at set screw contact location.



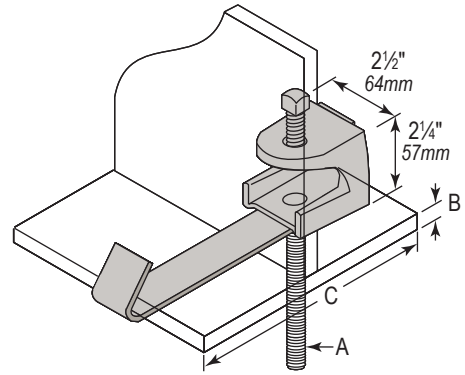
Standard Finish: Electro Galvanized (EG)

## Rod Suspension Beam Clamps with Retainer

Stock Thickness on retainer strap is 14 ga. .075" (1.91)

Set Screw Diameter is 1/2"-13 x 1-1/4"

Includes: Clamp & Set Screw, J-Hook, & 1/2"-13 Hex Head Cap Screw  
(Threaded rod sold separately).

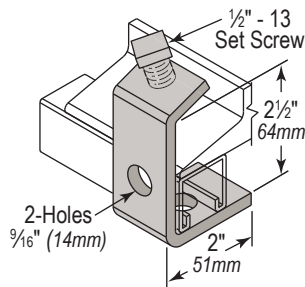


Retainer is supplied flat. Hammer end of retainer up and over beam after clamp is securely attached to beam flange

| SPECIFYING Brand & Part No. | Rod Size A | B Beam Thickness              | C Flange Width                   | Design Load lbs (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------|-------------------------------|----------------------------------|----------------------|--------------------------------|---------------|
|                             |            |                               |                                  |                      | VERSABAR                       | FLORIDA STRUT |
| <b>W5792-6</b>              | 1/2"-13    | 3/8" to 13/16"<br>(9 to 21mm) | 4" thru 6"<br>(102 thru 152mm)   | 400<br>(1.8kN)       | VX9000                         | --            |
| <b>W5792-9</b>              |            |                               | 7" thru 9"<br>(178 thru 229mm)   |                      | VX9001                         | --            |
| <b>W5792-12</b>             |            |                               | 10" thru 12"<br>(254 thru 305mm) |                      | VX9002                         | --            |
| <b>W5792-15</b>             |            |                               | 13" thru 15"<br>(330 thru 381mm) |                      | VX9003                         | --            |

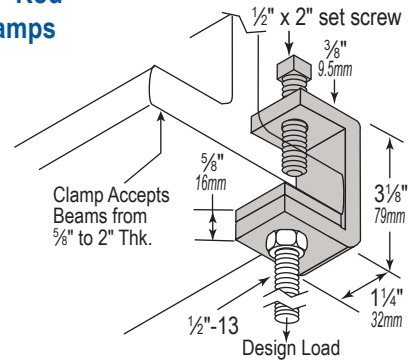
## Strut to Beam Clamp C-Type, Parallel

3/8" 10mm material thickness



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>W5714</b>                | VERSABAR                       | FLORIDA STRUT |
|                             | VX7002AL                       | BC22          |

## Heavy Beam 1/2" Rod Suspension Clamps



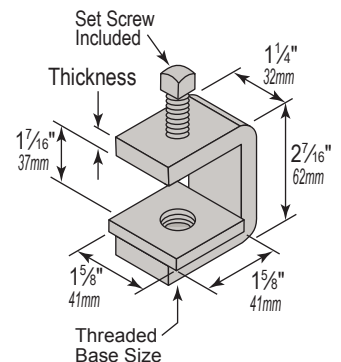
| SPECIFYING Brand & Part No. | Design Load           | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------------------|--------------------------------|---------------|
| <b>W5707</b>                |                       | VERSABAR                       | FLORIDA STRUT |
|                             | 800 Lbs.<br>(3.56 kN) | VX704450                       | --            |

## Heavy Duty Rod Suspension Clamps Wide Jaw fits up to 1-3/8" Thick

Supplied with stainless 18-8 cup point square head set screw.

(Stainless 316 available by special order)

All U.N.C course threads



| SPECIFYING Brand & Part No. | Threaded Base Rod Size | Set Screw Size | Clamp Thickness | * Max. Design Load for Threaded Base Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------------------|----------------|-----------------|--|--------------------------------|---------------|
|                             |                        |                |                 |  | VERSABAR                       | FLORIDA STRUT |
| <b>W5746</b>                | 1/4"-20                | 3/8"-16 x 2"   | 1/4" (6mm)      | 250 (1.11 kN)                                  | VX7070A                        | --            |
| <b>W5747</b>                | 3/8"-16                | 1/2"-13 x 2"   | 3/8" (10mm)     | 750 (3.34 kN)                                  | VX7070B                        | --            |
| <b>W5748</b>                | 1/2"-13                | 1/2"-13 x 2"   |                 | 1,130 (5.03 kN)                                | VX7070C                        | --            |
| <b>W5749</b>                | 5/8"-11                | 5/8"-11 x 2"   |                 | 1,130 (5.03 kN)                                | VX7070D                        | --            |

\* Do not exceed design loading per rod diameter.  
Load for Clamp base threaded rod suspended downward

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.  
It is recommended that the beam be dimpled at set screw contact location.

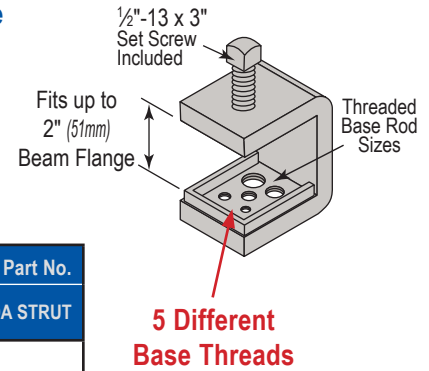




Standard Finish: Electro Galvanized (EG)

## “Handi-Clamp” Rod Suspension Clamps Wide jaw fits up to 2" thick beam flange

This beam clamp is used with conduit hangers, bridle rings, and threaded rod. W5780 beam clamp is used to hang light, medium or heavy loads from structural beams. Their hardened, cup-point screw and carbon steel body will not distort or slip off the beam edge when tightened. Having a total of FIVE individual base threads always means you've got "the right clamp" in your hands. Wide jaw allows fitment to thick beams. Hot dipped finish is suitable for indoor or out door use.

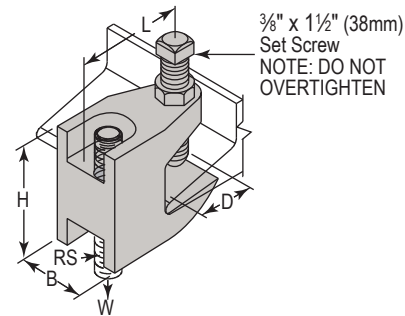


| SPECIFYING Brand & Part No. |          | Threaded Base Rod Size | Set Screw Size  | * Max. Design Load for Threaded Base Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------|------------------------|-----------------|--|--------------------------------|---------------|
| WESANCO                     |          |                        |                 |  | VERSABAR                       | FLORIDA STRUT |
| W5780                       | 1/4"-20  | 1/2"-13 x 3"           | 250 (1.11 kN)   | VXH1   | --                             |               |
|                             | 5/16"-18 |                        | 650 (2.89 kN)   |  |                                |               |
|                             | 3/8"-16  |                        | 750 (3.34 kN)   |  |                                |               |
|                             | 1/2"-13  |                        | 900 (4.00 kN)   |  |                                |               |
|                             | 5/8"-11  |                        | 1,000 (4.45 kN) |  |                                |               |

\* Do not exceed design loading per rod diameter.

## Malleable Iron Universal Beam Clamps

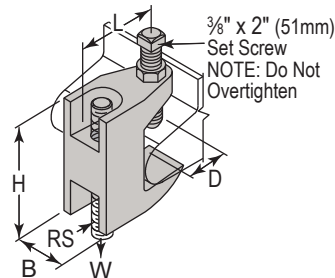
- Material: Malleable Iron
- Finish: Plain (PL), or Electro Galvanized (EG)
- Maximum flange thickness of 5/8" (16mm)



| SPECIFYING Brand & Part No. |           | Rod Size (RS) | Max Load W lbs | Max Pipe Size | B              | L             | H           | D  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------|---------------|----------------|---------------|----------------|---------------|-------------|----|--------------------------------|---------------|
| WESANCO                     |           |               |                |               |                |               |             |    | VERSABAR                       | FLORIDA STRUT |
| BC8037                      | 3/8" - 16 | 350 (1.56kN)  | 4" (102mm)     | 7/8" (22mm)   | 1 5/16" (33mm) | 1 1/2" (38mm) | 1/2" (13mm) | -- | BC800037                       |               |
| BC8050                      | 1/2" - 13 | 470 (2.09kN)  |                |               |                |               |             | -- | BC800050                       |               |
| BC8062                      | 5/8" - 11 | 550 (2.45kN)  | 5" (127mm)     | 1 1/8" (29mm) | 1 3/4" (45mm)  | 1 3/4" (45mm) | 5/8" (16mm) | -- | BC800062                       |               |
| BC8075                      | 3/4" - 10 | 700 (3.11kN)  | 6" (152mm)     | 1 3/8" (35mm) | 1 7/8" (48mm)  | 1 7/8" (48mm) | 5/8" (16mm) | -- | BC800075                       |               |

## Wide Mouth Malleable Iron Universal Beam Clamps

- Material: Malleable Iron
- Finish: Plain (PL), or Electro Galvanized (EG)
- Maximum flange thickness of 1-1/16" (27mm)



| SPECIFYING Brand & Part No. |           | Rod Size (RS) | Max Load W lbs | Max Pipe Size | B             | L             | H           | D         | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------|---------------|----------------|---------------|---------------|---------------|-------------|-----------|--------------------------------|---------------|
| WESANCO                     |           |               |                |               |               |               |             |           | VERSABAR                       | FLORIDA STRUT |
| BC81037                     | 3/8" - 16 | 400 (1.78kN)  | 4" (102mm)     | 7/8" (22mm)   | 1 3/8" (35mm) | 2" (51mm)     | 1/2" (13mm) | VX111137T | BC810037                       |               |
| BC81050                     | 1/2" - 13 | 500 (2.22kN)  |                |               |               |               |             | VX111150T | BC810050                       |               |
| BC81062                     | 5/8" - 11 |               |                | 1 1/4" (32mm) | 1 7/8" (48mm) | 2 3/8" (60mm) | 5/8" (16mm) | VX111162T | BC810062                       |               |
| BC81075                     | 3/4" - 10 | 800 (3.56kN)  |                | 2 3/8" (60mm) | 3/4" (19mm)   | VX111175T     | --          |           |                                |               |

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam. It is recommended that the beam be dimpled at set screw contact location.



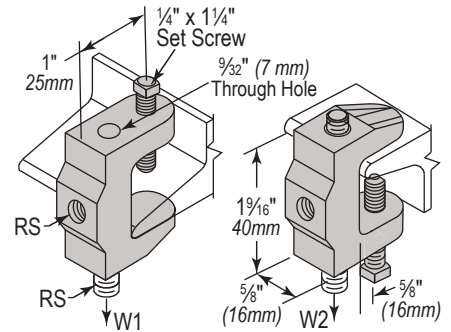
# Beam Clamps



Standard Finish: Electro Galvanized (EG)

## Malleable Iron Universal Beam Clamps

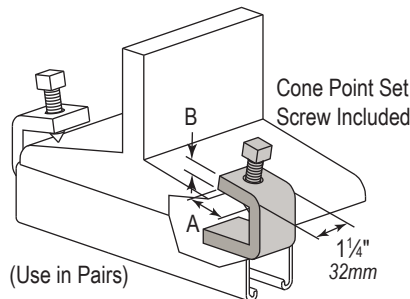
- Material: Malleable Iron
- Finish: Electrogalvanized (EG)
- Maximum flange thickness of  $\frac{5}{8}$ " (16mm)



| SPECIFYING Brand & Part No. | Rod Size (RS)        | W1 Max Load  | W2 Max Load  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------------|--------------|--------------|--------------------------------|---------------|
|                             |                      |              |              | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                      |              |              |                                |               |
| BC91025                     | $\frac{1}{4}$ " - 20 | 100 (0.44kN) | 250 (1.11kN) | --                             | BC910025      |

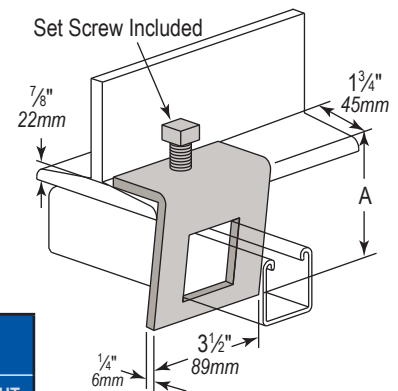
The threaded hole on the back side of the clamp is not load rated.  
Do not over tighten set screw

## Strut to Beam Clamp C-Type



| SPECIFYING Brand & Part No. | Set Screw          | Max Flange Thickness | A                         | B                      | H                         | Design Load Lbs. (kN)<br>(Used in Pairs) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------|----------------------|---------------------------|------------------------|---------------------------|--|--------------------------------|---------------|
|                             |                    |                      |                           |                        |                           |  | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                    |                      |                           |                        |                           |  |                                |               |
| W5715                       | $\frac{3}{8}$ "-16 | 1" (25mm)            | 1- $\frac{3}{4}$ " (44mm) | $\frac{1}{4}$ " (6mm)  | $\frac{7}{8}$ " (22mm)    | 550 (2.45 kN)                            | VX7001                         | BC20          |
| W5716                       | $\frac{1}{2}$ "-13 | 1" (25mm)            | 1- $\frac{1}{2}$ " (38mm) | $\frac{3}{8}$ " (10mm) | $\frac{7}{8}$ " (22mm)    | 1,000 (4.45 kN)                          | VX7042                         | BC21          |
| W5717                       | $\frac{1}{2}$ "-13 | 2" (51mm)            | 1- $\frac{1}{4}$ " (32mm) | $\frac{3}{8}$ " (10mm) | 2- $\frac{1}{8}$ " (54mm) | 900 (4.00 kN)                            | VX7043                         | --            |

## Strut to Beam Clamp Window Type



| SPECIFYING Brand & Part No. | A                           | For Cahannel                            | Design Uniform Load Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------------------------|---|-------------------------------|--------------------------------|---------------|
|                             |                             |   |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                             |   |                               |                                |               |
| W5705                       | 2- $\frac{11}{16}$ " (68mm) | 1- $\frac{5}{8}$ " x $\frac{13}{16}$ "  | 480 (2.14 kN)                 | VX7037A4                       | --            |
| W5703                       | 3- $\frac{1}{4}$ " (83mm)   | 1- $\frac{5}{8}$ " x 1- $\frac{3}{8}$ " |                               | VX7037A6                       | --            |
| W5702                       | 3- $\frac{1}{2}$ " (89mm)   | 1- $\frac{5}{8}$ " x 1- $\frac{5}{8}$ " |                               | VX7037A                        | BC40          |

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.  
It is recommended that the beam be dimpled at set screw contact location.

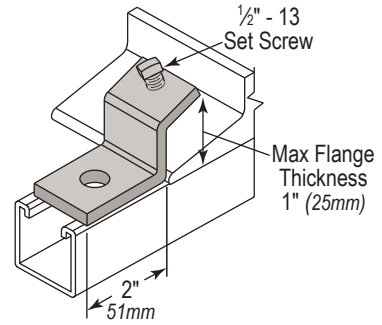


Standard Finish: Electro Galvanized (EG)

## Strut to Beam Clamp Z-Type

$\frac{3}{8}$ " 10mm material thickness

Use in Pairs

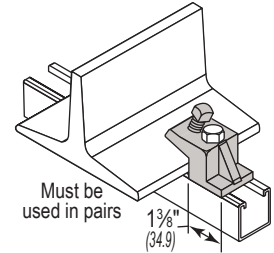


| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| WESANCO                     | VERSABAR                       | FLORIDA STRUT |
| W5712                       | VX7106A                        | BC30          |

## Strut to Beam Clamp Z-Type

$\frac{3}{8}$ " 10mm material thickness

Use in Pairs



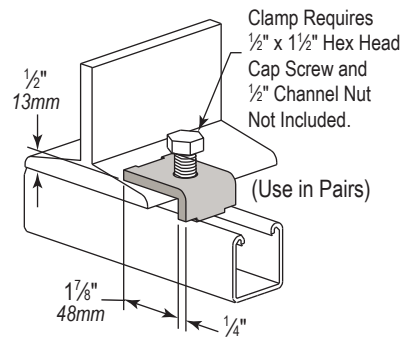
| SPECIFYING Brand & Part No. | Includes            | Design Uniform Load Lbs. (kN)         |                                       | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------------|---------------------------------------|---------------------------------------|--------------------------------|---------------|
|                             |                     | 1- $\frac{5}{8}$ " - 12 Gauge Channel | 1- $\frac{5}{8}$ " - 14 Gauge Channel | VERSABAR                       | FLORIDA STRUT |
| W5779                       | Clamp and Set Screw | 600<br>(2.67 kN)                      | 500<br>(2.22 kN)                      | VX7101S                        | --            |
| W5779A                      | All Hardware        |                                       |                                       | VX7101A                        | --            |

Load capacity when used in pairs

## Strut to Beam Clamp Notched Type

| SPECIFYING Brand & Part No. | Includes         | Design Uniform Load Lbs. (kN)         |                                       | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------------|---------------------------------------|---------------------------------------|--------------------------------|---------------|
|                             |                  | 1- $\frac{5}{8}$ " - 12 Gauge Channel | 1- $\frac{5}{8}$ " - 14 Gauge Channel | VERSABAR                       | FLORIDA STRUT |
| W5713                       | Without Hardware | 600<br>(2.67 kN)                      | 500<br>(2.22 kN)                      | VF2102                         | BC70          |

Load capacity when used in pairs



Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam. It is recommended that the beam be dimpled at set screw contact location.



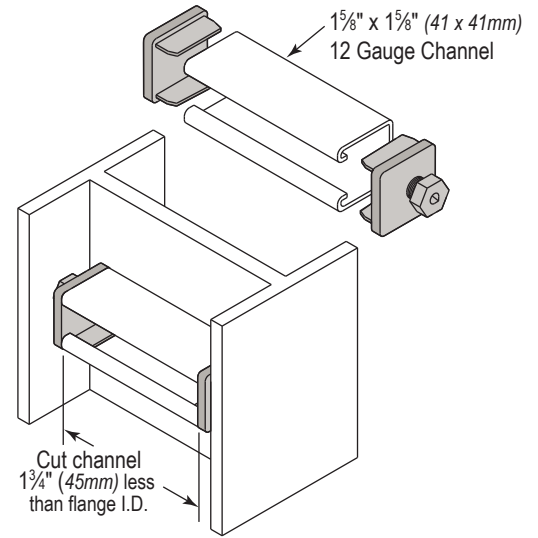
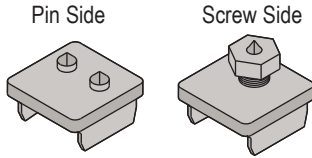
# Beam Clamps



Standard Finish: Electro Galvanized (EG)

## Strut to Beam Spreader Caps

Cut 1-5/8" channel length 1-3/4" (45mm)  
**shorter** than I.D. between beam flanges to allow for plate thickness.



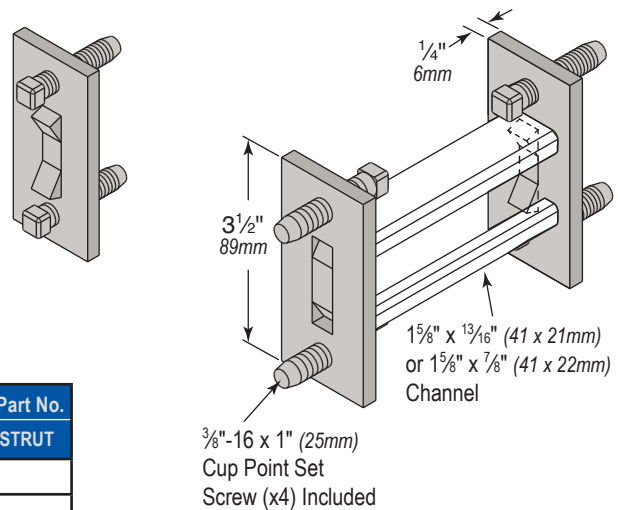
Column mounts are sold as a matching pair. Jacking screw provides pressure to hold channel between beam flanges. Hardened tips on pin side bite into opposite side. Channel can be mounted with slot facing up, down or out.

| SPECIFYING Brand & Part No. | For Channel   | Slip Load of plates Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|-------------------------------|--------------------------------|---------------|
|                             |               |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |               |                               |                                |               |
| W5760                       | 1-5/8" (41mm) | 800 (3.56 kN)                 | VX7715A                        | --            |

Channel Load rating is independent of clamp slip load rating

## Strut to Beam Spreader Caps

Undercut channel length min of 1/2" (13mm) to allow for plate thickness.

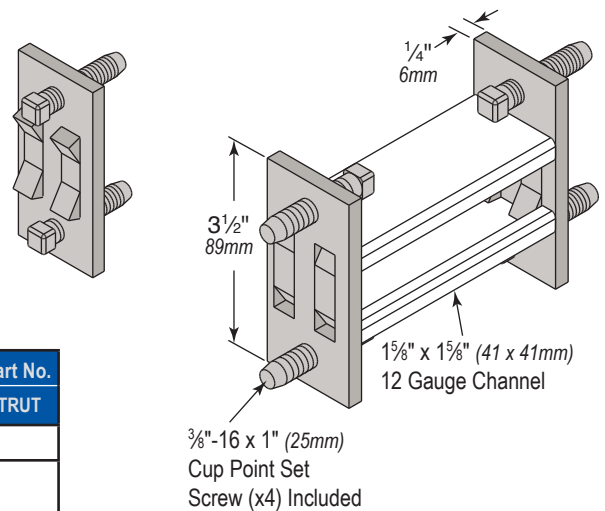


| SPECIFYING Brand & Part No. | For Channel    | Slip Load of plates Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|-------------------------------|--------------------------------|---------------|
|                             |                |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                |                               |                                |               |
| W5790                       | 7/8", & 13/16" | 800 (3.56 kN)                 | VX7715B4                       | --            |

Channel Load rating is independent of clamp slip load rating

## Strut to Beam Spreader Caps

Undercut channel length min of 1/2" (13mm) to allow for plate thickness.



| SPECIFYING Brand & Part No. | For Channel   | Slip Load of plates Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|-------------------------------|--------------------------------|---------------|
|                             |               |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |               |                               |                                |               |
| W5791                       | 1-5/8" (41mm) | 800 (3.56 kN)                 | VX7715B                        | --            |

Channel Load rating is independent of clamp slip load rating  
 Available in Stainless Steel

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam. It is recommended that the beam be dimpled at set screw contact location.



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Channel

Channel Nuts & Hardware

General Fittings

Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

Concrete Inserts

Roofing Supports

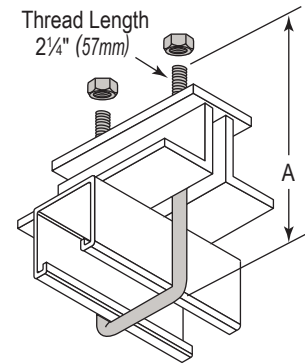
Fiberglass System

Technical Data

Standard Finish: Electro Galvanized (EG)

## Strut to Beam Clamps with Square U-Bolt

2 - 3/8"-16 Thread Hex Nuts Included

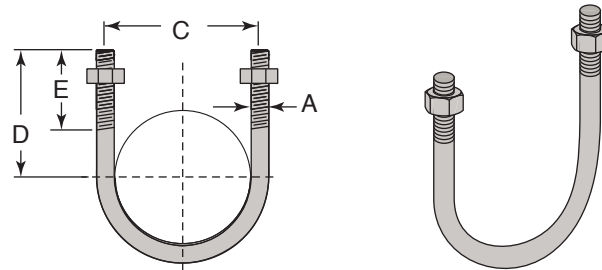


| SPECIFYING Brand & Part No. | A              | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|--------------------------------|---------------|
|                             |                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                |                                |               |
| W7050A                      | 3-1/2" (89 mm) | VX7050A                        | --            |
| W7050B                      | 5" (127 mm)    | VX7050B                        | --            |

## Strut to Beam Clamps with U-Bolt

2 - Hex Nuts Included

Zinc Electro Plated  
ASTM B633 Table One  
0.0003 - 0.0005 Thick.  
Material per ASTM A36



| SPECIFYING Brand & Part No. | Nominal Pipe Size | A           | C ±0.08       | D ±0.01       | E ±0.12      | Threads      | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------------|-------------|---------------|---------------|--------------|--------------|--------------------------------|---------------|
|                             |                   |             |               |               |              |              | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                   |             |               |               |              |              |                                |               |
| UB1/4P                      | 1/4" (6mm)        | 1/4" (6mm)  | 1.14 (29mm)   | 1.10 (28mm)   | 0.70 (18mm)  | 1/4-20UNC-2A | --                             | --            |
| UB3/8P                      | 3/8" (10mm)       |             | 1.26 (32mm)   | 1.15 (29mm)   | 0.75 (19mm)  |              | --                             | --            |
| UB1/2P                      | 1/2" (13mm)       |             | 1.50 (38mm)   | 1.50 (38mm)   | 1.00 (25mm)  |              | --                             | --            |
| UB3/4P                      | 3/4" (19mm)       |             | 1.50 (38mm)   | 1.50 (38mm)   | 1.00 (25mm)  |              | --                             | --            |
| UB1P                        | 1" (25mm)         |             | 1.80 (46mm)   | 1.70 (43mm)   | 1.00 (25mm)  |              | --                             | --            |
| UB1-1/4P                    | 1-1/4" (32mm)     | 3/8" (10mm) | 2.05 (52mm)   | 2.10 (53mm)   | 1.20 (31mm)  | 3/8-16UNC-2A | --                             | --            |
| UB1-1/2P                    | 1-1/2" (38mm)     |             | 2.80 (71mm)   | 2.20 (56mm)   | 1.20 (31mm)  |              | --                             | --            |
| UB2P                        | 2" (51mm)         |             | 3.35 (85mm)   | 2.5 (64mm)    | 1.20 (31mm)  |              | --                             | --            |
| UB2-1/2P                    | 2-1/2" (64mm)     | 1/2" (13mm) | 3.88 (99mm)   | 3.00 (76mm)   | 1.40 (36mm)  | 1/2-13UNC-2A | --                             | --            |
| UB3P                        | 3" (76mm)         |             | 4.50 (114mm)  | 3.30 (84mm)   | 1.40 (36mm)  |              | --                             | --            |
| UB3-1/2P                    | 3-1/2" (89mm)     |             | 5.00 (127mm)  | 3.70 (94mm)   | 1.50 (38mm)  |              | --                             | --            |
| UB4P                        | 4" (102mm)        |             | 5.50 (140mm)  | 3.90 (99mm)   | 1.50 (38mm)  |              | --                             | --            |
| UB5P                        | 5" (127mm)        |             | 6.56 (167mm)  | 4.50 (114mm)  | 1.60 (41mm)  |              | --                             | --            |
| UB6P                        | 6" (152mm)        | 5/8" (16mm) | 7.82 (199mm)  | 5.60 (142mm)  | 2.00 (51mm)  | 5/8-11UNC-2A | --                             | --            |
| UB8P                        | 8" (203mm)        |             | 9.88 (251mm)  | 6.60 (168mm)  | 2.00 (51mm)  |              | --                             | --            |
| UB10P                       | 10" (254mm)       | 3/4" (19mm) | 12.19 (310mm) | 7.75 (197mm)  | 2.20 (56mm)  | 3/4-10UNC-2A | --                             | --            |
| UB12P                       | 12" (305mm)       |             | 14.19 (360mm) | 8.80 (224mm)  | 2.20 (56mm)  |              | --                             | --            |
| UB14P                       | 14" (356mm)       | 7/8" (22mm) | 15.50 (394mm) | 10.00 (254mm) | 2.50 (64mm)  | 7/8-9UNC-2A  | --                             | --            |
| UB16P                       | 16" (406mm)       |             | 17.50 (445mm) | 11.00 (279mm) | 2.50 (64mm)  |              | --                             | --            |
| UB18P                       | 18" (457mm)       | 1" (25mm)   | 19.60 (498mm) | 12.60 (320mm) | 3.00 (76mm)  | 1-8UNC-2A    | --                             | --            |
| UB20P                       | 20" (508mm)       |             | 21.60 (549mm) | 13.60 (345mm) | 3.00 (76mm)  |              | --                             | --            |
| UB24P                       | 24" (610mm)       |             | 25.60 (650mm) | 17.00 (432mm) | 4.20 (107mm) |              | --                             | --            |

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam. It is recommended that the beam be dimpled at set screw contact location.



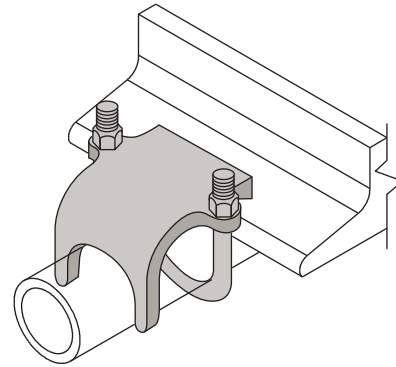
Standard Finish: Electro Galvanized (EG)

## Right Angle Clamps

Standard finish: Hot Dip Galv.

| SPECIFYING Brand & Part No. | Pipe Size     | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|--------------------------------|---------------|
|                             |               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> RTA037       | 3/8" (DN10)   | VX2037                         | --            |
| RTA050                      | 1/2" (DN15)   | VX2050 *                       | RA0050        |
| RTA075                      | 3/4" (DN20)   | VX2075 *                       | RA0075        |
| RTA100                      | 1" (DN25)     | VX2100 *                       | RA0100        |
| RTA125                      | 1-1/4" (DN32) | VX2125 *                       | RA0125        |
| RTA150                      | 1-1/2" (DN40) | VX2150 *                       | RA0150        |
| RTA200                      | 2" (DN50)     | VX2200 *                       | RA0200        |
| RTA250                      | 2-1/2" (DN65) | VX2250 *                       | RA0250        |
| RTA300                      | 3" (DN80)     | VX2300 *                       | RA0300        |
| RTA350                      | 3-1/2" (DN90) | VX2350 *                       | RA0350        |
| RTA400                      | 4" (DN100)    | VX2400 *                       | RA0400        |

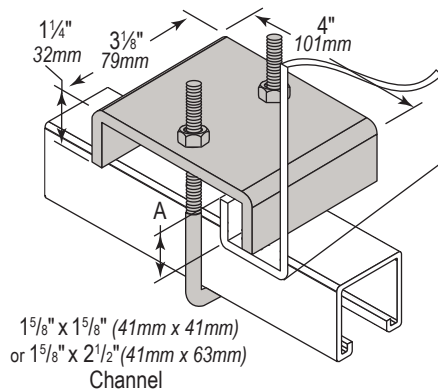
\* Available in stainless steel type 316. Add suffix "-SS316" to part no.



## One Piece Purlin Beam Clamp

For 1 3/16" & 1-5/8" channel

One piece purlin clamp set:  
Includes U-bolt and hex nut

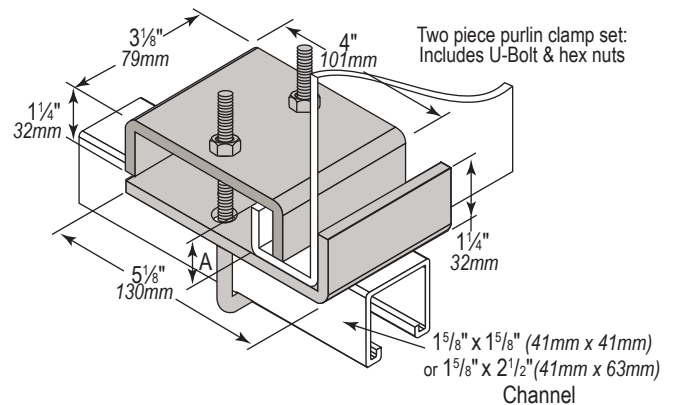


| SPECIFYING Brand & Part No. | Maximum Purlin Lip Height "A" | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------------------------|--------------------------------|---------------|
|                             |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W5710        | 1" (25mm)                     | VX9007                         | --            |

## Two Piece Purlin Beam Clamp

For 1 3/16" & 1-5/8" channel

Two piece purlin clamp set:  
Includes U-bolt and hex nut



| SPECIFYING Brand & Part No. | Maximum Purlin Lip Height "A" | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------------------------|--------------------------------|---------------|
|                             |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W5711        | 1" (25mm)                     | VX9008                         | --            |

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.  
It is recommended that the beam be dimpled at set screw contact location.

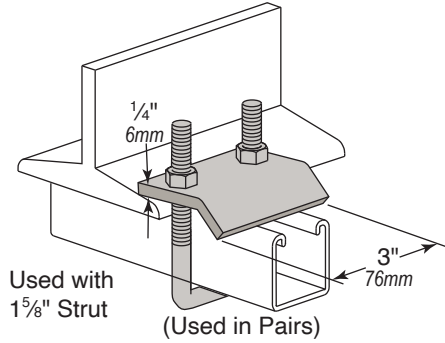




Standard Finish: Electro Galvanized (EG)

## Strut to Beam Clamps with Square U-Bolt

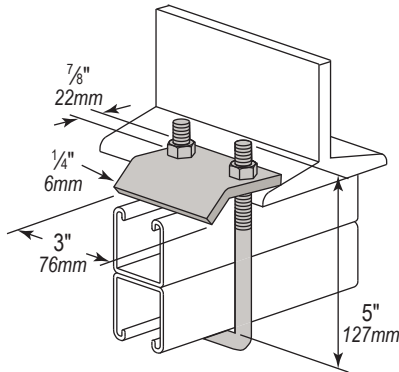
For 1<sup>3</sup>/<sub>16</sub>" & 1<sup>5</sup>/<sub>8</sub>" Channel



| SPECIFYING Brand & Part No.      | Allowable Load Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|----------------------------------|--------------------------|--------------------------------|---------------|
|                                  |                          | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>W5709          | 1,200 (5.34 kN)          | VX7038A                        | BC60          |
| Load capacity when used in pairs |                          |                                |               |

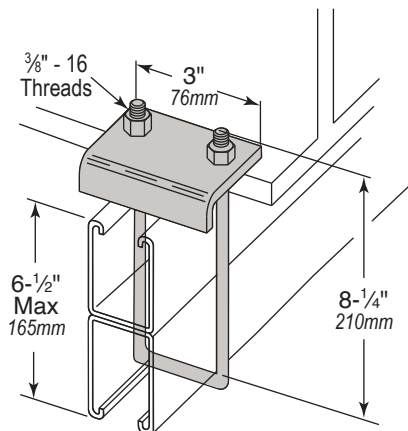
## Strut to Beam Clamps with Square U-Bolt

For 2<sup>7</sup>/<sub>16</sub>" & 3<sup>1</sup>/<sub>4</sub>" Channel



| SPECIFYING Brand & Part No.      | Allowable Load Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|----------------------------------|--------------------------|--------------------------------|---------------|
|                                  |                          | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>W5708          | 1,200 (5.34 kN)          | VX7038B                        | BC61          |
| Load capacity when used in pairs |                          |                                |               |

## "U" Bolt Beam Clamps (Long) for 6<sup>1</sup>/<sub>2</sub>" maximum



| SPECIFYING Brand & Part No.      | Allowable Load Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|----------------------------------|--------------------------|--------------------------------|---------------|
|                                  |                          | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>W5770          | 1,200 (5.34 kN)          | --                             | --            |
| Load capacity when used in pairs |                          |                                |               |

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam. It is recommended that the beam be dimpled at set screw contact location.



# Beam Clamps

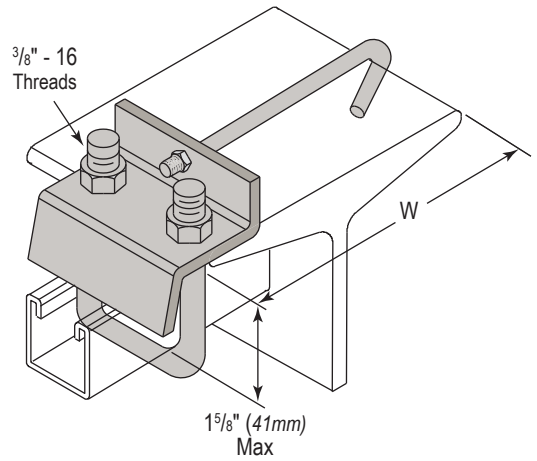


Standard Finish: Electro Galvanized (EG)

## Strut to Beam Clamps with Square U-Bolt and J-Hook

For 1<sup>3</sup>/<sub>16</sub>" & 1-<sup>5</sup>/<sub>8</sub>" channel

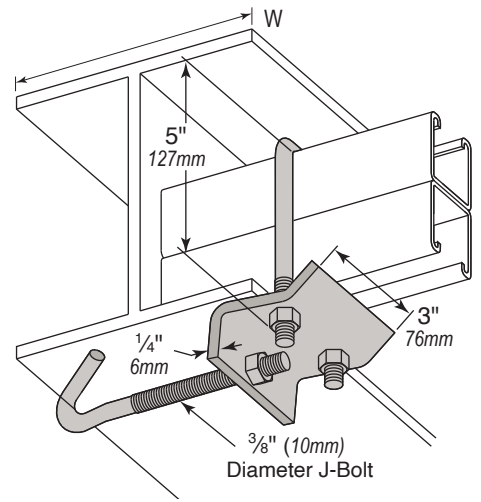
| SPECIFYING Brand & Part No. | For Flange Width "W"          | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------------------------|--------------------------------|---------------|
|                             |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                               |                                |               |
| W5771-6                     | 4" thru- 6" (102 thru 152mm)  | VX7041A4                       | BC620600      |
| W5771-9                     | 6" thru 9" (152 thru 229mm)   | VX7041A6                       | BC620900      |
| W5771-12                    | 9" thru 12" (229 thru 305mm)  | VX7041A9                       | BC621200      |
| W5771-15                    | 12" thru 15" (305 thru 378mm) | VX7041A12                      | --            |
| W5771-18                    | 15" thru 18" (378 thru 457mm) | --                             | --            |



## Strut to Beam Clamps with Square U-Bolt and J-Hook

For 2-<sup>7</sup>/<sub>16</sub>" & 3-<sup>1</sup>/<sub>4</sub>" channel  
 • 1" Max. Flange Thickness

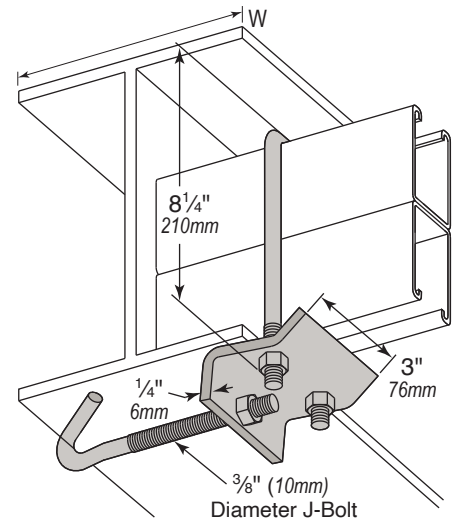
| SPECIFYING Brand & Part No. | For Flange Width "W"          | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------------------------|--------------------------------|---------------|
|                             |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                               |                                |               |
| W5761                       | 4" thru- 6" (102 thru 152mm)  | VX7041B4                       | BC630600      |
| W5761-9                     | 6" thru 9" (152 thru 229mm)   | VX7041B6                       | BC630900      |
| W5761-12                    | 9" thru 12" (229 thru 305mm)  | VX7041B9                       | BC631200      |
| W5761-15                    | 12" thru 15" (305 thru 378mm) | VX7041B12                      | --            |
| W5761-18                    | 15" thru 18" (378 thru 457mm) | --                             | --            |



## Strut to Beam Clamps with Square U-Bolt and J-Hook

For Back to Back 2-<sup>1</sup>/<sub>2</sub>", 2-<sup>7</sup>/<sub>16</sub>" & 3-<sup>1</sup>/<sub>4</sub>" channel  
 • 1" Max. Flange Thickness

| SPECIFYING Brand & Part No. | For Flange Width "W"          | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------------------------|--------------------------------|---------------|
|                             |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                               |                                |               |
| W5772-6                     | 4" thru- 6" (102 thru 152mm)  | --                             | BC690600      |
| W5772-9                     | 6" thru 9" (152 thru 229mm)   | --                             | BC690900      |
| W5772-12                    | 9" thru 12" (229 thru 305mm)  | --                             | BC691200      |
| W5772-15                    | 12" thru 15" (305 thru 378mm) | VX7041C12                      | --            |
| W5772-18                    | 15" thru 18" (378 thru 457mm) | --                             | --            |



Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.  
 It is recommended that the beam be dimpled at set screw contact location.



Introduction

Channel

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Concrete Inserts

Rooftop Supports

Fiberglass System

Technical Data

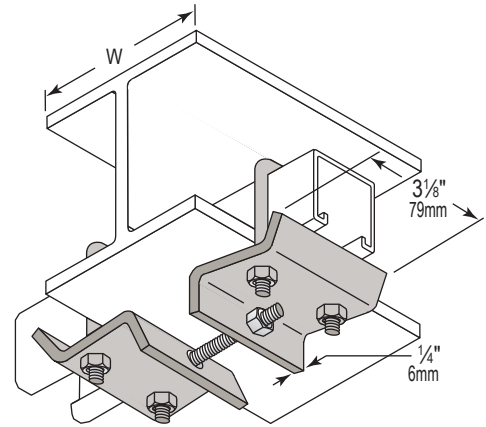
Standard Finish: Electro Galvanized (EG)

## Strut to Beam Clamps with Two Square U-Bolts

For channel up to 1-5/8" Deep

Square U-bolts, rod and hex nuts included

| SPECIFYING Brand & Part No. | Rod Length  | For Flange Width "W"          | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-------------------------------|--------------------------------|---------------|
|                             |             |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                               |                                |               |
| <b>W5773-6</b>              | 4" (102mm)  | 4" thru-6" (102 thru 152mm)   | VX7045A4                       | --            |
| <b>W5773-9</b>              | 6" (152mm)  | 6" thru 9" (152 thru 229mm)   | VX7045A6                       | --            |
| <b>W5773-12</b>             | 9" (229mm)  | 9" thru 12" (229 thru 305mm)  | VX7045A9                       | --            |
| <b>W5773-15</b>             | 12" (305mm) | 12" thru 15" (305 thru 378mm) | VX7045A12                      | --            |

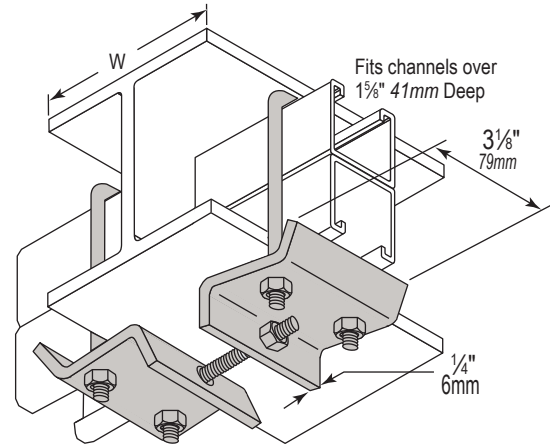


## Strut to Beam Clamps with Two Square U-Bolts

For channel over 1-5/8" Deep

Square U-bolts, rod and hex nuts included

| SPECIFYING Brand & Part No. | Rod Length  | For Flange Width "W"          | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-------------------------------|--------------------------------|---------------|
|                             |             |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                               |                                |               |
| <b>W5774-6</b>              | 4" (102mm)  | 4" thru-6" (102 thru 152mm)   | VX7045B4                       | --            |
| <b>W5774-9</b>              | 6" (152mm)  | 6" thru 9" (152 thru 229mm)   | VX7045B6                       | --            |
| <b>W5774-12</b>             | 9" (229mm)  | 9" thru 12" (229 thru 305mm)  | VX7045B9                       | --            |
| <b>W5774-15</b>             | 12" (305mm) | 12" thru 15" (305 thru 378mm) | VX7045B12                      | --            |

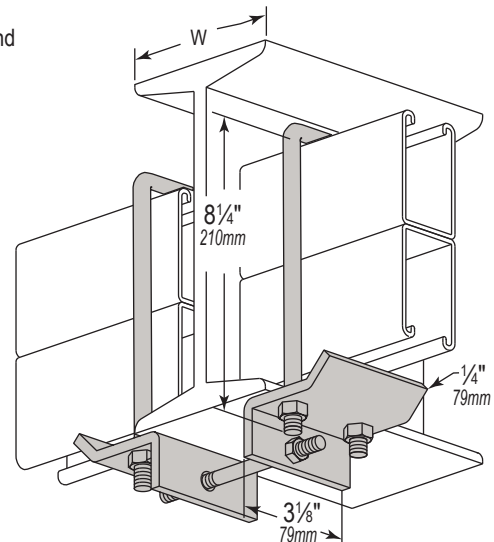


## Strut to Beam Clamps with Two Square U-Bolts

For channel over 6-1/4" Deep

Square U-bolts, rod and hex nuts included

| SPECIFYING Brand & Part No. | Rod Length  | For Flange Width "W"          | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|-------------------------------|--------------------------------|---------------|
|                             |             |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                               |                                |               |
| <b>W5711-4</b>              | 4" (102mm)  | 4" thru-6" (102 thru 152mm)   | VX7045C4                       | --            |
| <b>W5711-6</b>              | 6" (152mm)  | 6" thru 9" (152 thru 229mm)   | VX7045C6                       | --            |
| <b>W5711-9</b>              | 9" (229mm)  | 9" thru 12" (229 thru 305mm)  | VX7045C9                       | --            |
| <b>W5711-12</b>             | 12" (305mm) | 12" thru 15" (305 thru 378mm) | VX7045C12                      | --            |
| <b>W5711-15</b>             | 12" (305mm) | 15" thru 18" (378 thru 457mm) | VX7045C15                      | --            |



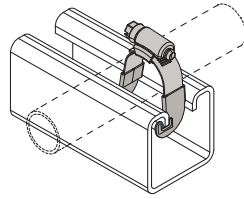
Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam. It is recommended that the beam be dimpled at set screw contact location.



## Pipe Clamps, Cushioned & Insulated Clamps & Support Saddles

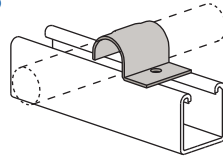
### Strut Clamps

Pages 142 - 146



### Tubing Clamps & Hangers

Pages 146 - 147



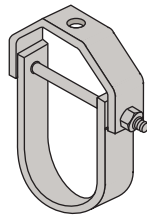
### Cush-A-Rings

Pages 148 - 149



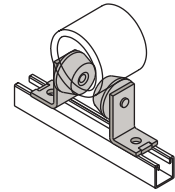
### Riser Clamps & Pipe Hangers

Pages 150 - 152



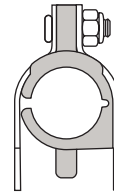
### Pipe Rollers

Pages 153 - 154



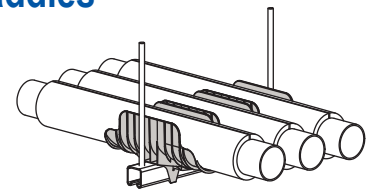
### Cushioned Clamps

Pages 155 - 182



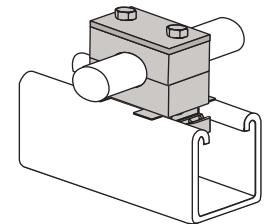
### Pipe Insulation Saddles

Pages 183 - 196



### Beta Clamps

Pages 197 - 198



| Pipe Clamp Specifications |                |  |
|---------------------------|----------------|--|
| Material                  | ASTM           | ASTM Description   |
| Hot Rolled Plate          | A 575          | Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.                          |
| Fitting (Steel)           | A 366          | Steel carbon, cold rolled sheet, commercial quality structural steel.                                |
|                           | A 366          |  |
|                           | A 36           |  |
| Strip Steel: Pipe Clamps  | A 569          | Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.                          |
| Stainless Steel:          | A 240 TYPE 304 | Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel. |
|                           | A 240 TYPE 316 |  |
| Aluminum:                 | B 221          | Aluminum alloy extruded bar, rod, wire, shape and tube.  |

| Pipe Clamp Finish Specifications     |  |
|--------------------------------------|--|
| Finish                               | Description  |
| Paint-Green Powder Coating           | A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.   |
| Electroplated                        | Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.  |
| Mill-Galvanized (Pre-Galvanized)     | Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present. |
| Hot Dip Galvanized After Fabrication | Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications. ASTM A 123, ASTM A153, or ASTM A386.                       |
| Special Coatings                     | Other commercially available finishes can be supplied per specification when required to protect applications. Plain, or Gold (Yellow Zinc Dichromate)                         |

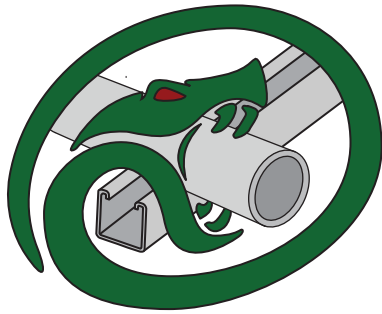
See page 23 for Material or Finish ordering codes for part numbers.

Standard Material: Stainless Steel

## Strut Serpent®

### The Simplicity of the Strut Serpent!

#### Worm Gear Strut Clamp

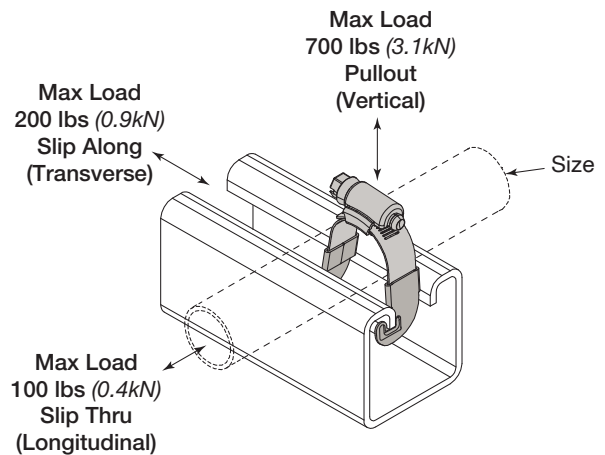


U.S. Patent No.  
11,473,700



- Perfect for Trapeze Applications
- A significant reduction of 60% in labor costs to install.
- Worm Gear fastening method that ensures the proper torque-tension
- Directly Installs to Any Industry Standard Strut Profile.
- Electrical and Mechanical Applications
- Very Clean Appearance After the Assembly is Complete.
- Easy Relocation of Conduit, Pipe, or Tube Prior to Final Alignment.
- Secure the Conduit, Pipe, or Tube Above and/or Below the Strut

| Part Number | Size        | Outside Diameter | Conduit                              | Stainless Steel |
|-------------|-------------|------------------|--------------------------------------|-----------------|
| SSEMT050    | ½" (13mm)   | 0.706 (18mm)     | Electrical Metallic Tubing (EMT)     | Type 301        |
| SSEMT075    | ¾" (19mm)   | 0.922 (23mm)     |                                      |                 |
| SSEMT100    | 1" (25mm)   | 1.163 (30mm)     |                                      |                 |
| SSEMT125    | 1-¼" (32mm) | 1.510 (38mm)     |                                      |                 |
| SSEMT150    | 1-½" (38mm) | 1.740 (44mm)     |                                      |                 |
| SSEMT200    | 2" (51mm)   | 2.197 (56mm)     |                                      |                 |
| SSGRC050    | ½" (13mm)   | 0.840 (21mm)     | Galvanized Rigid Steel Conduit (GRC) | Type 301        |
| SSGRC075    | ¾" (19mm)   | 1.050 (27mm)     |                                      |                 |
| SSGRC100    | 1" (25mm)   | 1.315 (33mm)     |                                      |                 |
| SSGRC125    | 1-¼" (32mm) | 1.660 (42mm)     |                                      |                 |
| SSGRC150    | 1-½" (38mm) | 1.900 (48mm)     |                                      |                 |
| SSGRC200    | 2" (51mm)   | 2.375 (60mm)     |                                      |                 |

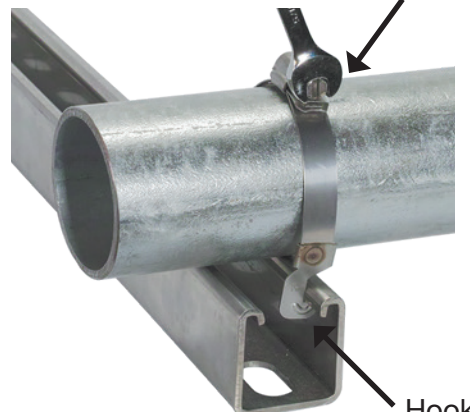


### Strut Serpent® – New Installations

**Step 1: Place Strut Serpent over pipe and into channel**



**Step 2: Hook Teeth onto channel In-turned edges and Tighten with a wrench**



**Step 3: Completed. Simple!**



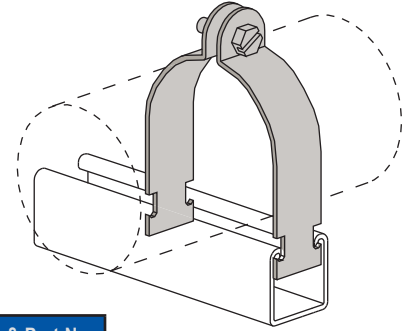


# Strut Clamps



Standard Finish: Electro Galvanized (EG)

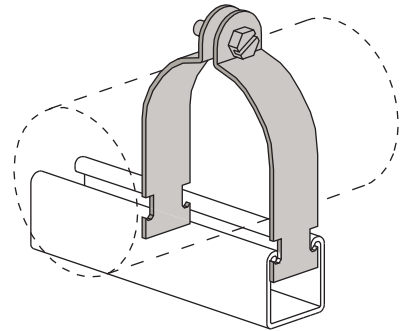
## EMT Strut Clamp



| SPECIFYING Brand & Part No. | EMT Size      | O.D. Size | Allowable Load Lbs. (kN) (ea.) | Slotted Indented Hex Cap Screw | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|-----------|--------------------------------|--------------------------------|--------------------------------|---------------|
|                             |               |           |                                |                                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W6025A       | 3/8" (10mm)   | 0.577"    | 400 (1.78 kN)                  | 1/4" x 3/4"                    | VPT1037                        | SCE0037       |
| W6026A                      | 1/2" (13mm)   | 0.706"    |                                | 1/4" x 3/4"                    | VPT1050                        | SCE0050       |
| W6028A                      | 3/4" (19mm)   | 0.922"    |                                | 1/4" x 3/4"                    | VPT1075                        | SCE0075       |
| W6030A                      | 1" (25mm)     | 1.163"    | 600 (2.67 kN)                  | 1/4" x 3/4"                    | VPT1100                        | SCE0100       |
| W6032A                      | 1-1/4" (32mm) | 1.510"    |                                | 1/4" x 3/4"                    | VPT1125                        | SCE0125       |
| W6034A                      | 1-1/2" (38mm) | 1.740"    | 800 (3.56 kN)                  | 5/16" x 1"                     | VPT1150                        | SCE0150       |
| W6038A                      | 2" (51mm)     | 2.197"    |                                | 5/16" x 1"                     | VPT1200                        | SCE0200       |

Each clamp consists of two halves, one kept nut and one slotted hex head cap screw.

## Rigid Strut Clamp



| SPECIFYING Brand & Part No. | Pipe Size      | O.D. Size | Allowable Load Lbs. (kN) (ea.) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|-----------|--------------------------------|--------------------------------|---------------|
|                             |                |           |                                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W6125A       | 3/8" (10mm)    | 0.675"    | 600 (2.67 kN)                  | VP1037                         | SCR0037       |
| W6126A                      | 1/2" (13mm)    | 0.840"    |                                | VP1050                         | SCR0050       |
| W6128A                      | 3/4" (19mm)    | 1.050"    |                                | VP1075                         | SCR0075       |
| W6130A                      | 1" (25mm)      | 1.315"    | 600 (2.67 kN)                  | VP1100                         | SCR0100       |
| W6132A                      | 1-1/4" (32mm)  | 1.660"    |                                | VP1125                         | SCR0125       |
| W6134A                      | 1-1/2" (38mm)  | 1.900"    | 800 (3.56 kN)                  | VP1150                         | SCR0150       |
| W6138A                      | 2" (51mm)      | 2.375"    |                                | VP1200                         | SCR0200       |
| W6142A                      | 2-1/2" (64mm)  | 2.875"    |                                | VP9250                         | SCR0250       |
| W6146A                      | 3" (76mm)      | 3.500"    | 800 (3.56 kN)                  | VP9300                         | SCR0300       |
| W6150A                      | 3-1/2" (89mm)  | 4.000"    |                                | VP9350                         | SCR0350       |
| W6154A                      | 4" (102mm)     | 4.500"    | 1,000 (4.45 kN)                | VP9400                         | SCR0400       |
| W620500A                    | 4-1/2" (114mm) | 5.000"    |                                | VP1450                         | --            |
| W6162A                      | 5" (127mm)     | 5.563"    | 1,000 (4.45 kN)                | VP1500                         | SCR0500       |
| W6170A                      | 6" (152mm)     | 6.625"    |                                | VP1600                         | SCR0600       |
| W6174A                      | 8" (203mm)     | 8.625"    | 1,000 (4.45 kN)                | VP1800                         | SCR0800       |
| W6176A                      | 10" (254mm)    | 10.750"   |                                | VP10000                        | SCR1000       |
| W6178A                      | 12" (305mm)    | 12.750"   |                                | VP12000                        | SCR1200       |

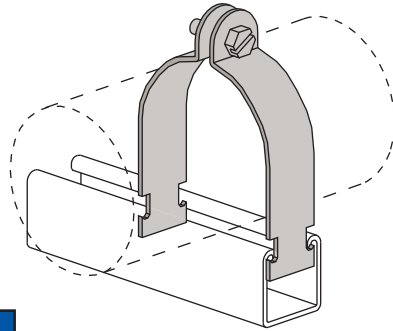
Each clamp consists of two halves one kept nut and one slotted hex head cap screw.





Standard Finish: Electro Galvanized (EG)

## O.D. Strut Clamp



| O.D. Size Range                 | Allowable Load (ea.) | Slotted Indented Hex Screw |
|---------------------------------|----------------------|----------------------------|
| 1/4" (6mm) - 7/8" (22mm)        | 400 (1.78 kN)        | 1/4" x 3/4"                |
| 1" (25mm) - 1-5/8" (41mm)       | 600 (2.67 kN)        | 1/4" x 3/4"                |
| 1-3/4" (44mm) - 3-5/8" (92mm)   | 800 (3.56 kN)        | 5/16" x 1"                 |
| 3-3/4" (95mm) - 12-3/4" (324mm) | 1,000 (4.45 kN)      | 3/8" x 1-1/4"              |

| SPECIFYING Brand & Part No. | O.D. Size      | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|--------------------------------|---------------|
|                             |                | VERSABAR                       | FLORIDA STRUT |
| <b>W620025A</b>             | 1/4" (6mm)     | VT1025                         | SCO0025       |
| <b>W620037A</b>             | 3/8" (10mm)    | VT1037                         | SCO0037       |
| <b>W620050A</b>             | 1/2" (13mm)    | VT1050                         | SCO0050       |
| <b>W620062A</b>             | 5/8" (16mm)    | VT1062                         | SCO0062       |
| <b>W620075A</b>             | 3/4" (19mm)    | VT1075                         | SCO0075       |
| <b>W620087A</b>             | 7/8" (22mm)    | VT1087                         | SCO0087       |
| <b>W620100A</b>             | 1" (25mm)      | VT1100                         | SCO0100       |
| <b>W620112A</b>             | 1-1/8" (29mm)  | VT1112                         | SCO0112       |
| <b>W620125A</b>             | 1-1/4" (32mm)  | VT1125                         | SCO0125       |
| <b>W620137A</b>             | 1-3/8" (35mm)  | VT1137                         | SCO0137       |
| <b>W620150A</b>             | 1-1/2" (38mm)  | VT1150                         | SCO0150       |
| <b>W620162A</b>             | 1-5/8" (41mm)  | VT1162                         | SCO0162       |
| <b>W6034A</b>               | 1-3/4" (44mm)  | VT1175                         | SCO0175       |
| <b>W620187A</b>             | 1-7/8" (48mm)  | VT1187                         | SCO0187       |
| <b>W620200A</b>             | 2" (51mm)      | VT1200                         | SCO0200       |
| <b>W620212A</b>             | 2-1/8" (54mm)  | VT1212                         | SCO0212       |
| <b>W620225A</b>             | 2-1/4" (57mm)  | VT1225                         | SCO0225       |
| <b>W6138A</b>               | 2-3/8" (60mm)  | VT1237                         | SCO0237       |
| <b>W620250A</b>             | 2-1/2" (64mm)  | VT1250                         | SCO0250       |
| <b>W620262A</b>             | 2-5/8" (67mm)  | VT1262                         | SCO0262       |
| <b>W620275A</b>             | 2-3/4" (70mm)  | VT1275                         | SCO0275       |
| <b>W6142A</b>               | 2-7/8" (73mm)  | VT1287                         | SCO0287       |
| <b>W620300A</b>             | 3" (76mm)      | VT1300                         | SCO0300       |
| <b>W620312A</b>             | 3-1/8" (79mm)  | VT1312                         | SCO0312       |
| <b>W620325A</b>             | 3-1/4" (83mm)  | VT1325                         | SCO0325       |
| <b>W620337A</b>             | 3-3/8" (86mm)  | VT1337                         | SCO0337       |
| <b>W6146A</b>               | 3-1/2" (89mm)  | VT1350                         | SCO0350       |
| <b>W620362A</b>             | 3-5/8" (92mm)  | VT1362                         | SCO0362       |
| <b>W620375A</b>             | 3-3/4" (95mm)  | VT1375                         | SCO0375       |
| <b>W620387A</b>             | 3-7/8" (98mm)  | VT1387                         | SCO0387       |
| <b>W6150A</b>               | 4" (102mm)     | VT1400                         | SCO0400       |
| <b>W620412A</b>             | 4-1/8" (105mm) | VT1412                         | SCO0412       |
| <b>W620425A</b>             | 4-1/4" (108mm) | VT1425                         | SCO0425       |
| <b>W620437A</b>             | 4-3/8" (111mm) | VT1437                         | SCO0437       |
| <b>W6154A</b>               | 4-1/2" (114mm) | VT1450                         | SCO0450       |
| <b>W620462A</b>             | 4-5/8" (118mm) | VT1462                         | SCO0462       |
| <b>W620475A</b>             | 4-3/4" (121mm) | VT1475                         | SCO0475       |
| <b>W620487A</b>             | 4-7/8" (124mm) | VT1487                         | SCO0487       |
| <b>W620500A</b>             | 5" (127mm)     | VT1500                         | SCO0500       |
| <b>W620512A</b>             | 5-1/8" (130mm) | VT1512                         | SCO0512       |

| SPECIFYING Brand & Part No. | O.D. Size       | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------------|--------------------------------|---------------|
|                             |                 | VERSABAR                       | FLORIDA STRUT |
| <b>W620525A</b>             | 5-1/4" (133mm)  | VT1525                         | SCO0525       |
| <b>W620537A</b>             | 5-3/8" (137mm)  | VT1537                         | SCO0537       |
| <b>W620550A</b>             | 5-1/2" (140mm)  | VT1550                         | SCO0550       |
| <b>W620562A</b>             | 5-5/8" (143mm)  | VT1562                         | SCO0562       |
| <b>W620575A</b>             | 5-3/4" (146mm)  | VT1575                         | SCO0575       |
| <b>W620587A</b>             | 5-7/8" (149mm)  | VT1587                         | SCO0587       |
| <b>W620600A</b>             | 6" (152mm)      | VT1600                         | SCO0600       |
| <b>W620612A</b>             | 6-1/8" (156mm)  | VT1612                         | SCO0612       |
| <b>W620625A</b>             | 6-1/4" (159mm)  | VT1625                         | SCO0625       |
| <b>W620637A</b>             | 6-3/8" (162mm)  | VT1637                         | SCO0637       |
| <b>W620650A</b>             | 6-1/2" (165mm)  | VT1650                         | SCO0650       |
| <b>W620662A</b>             | 6-5/8" (168mm)  | VT1662                         | SCO0662       |
| <b>W620675A</b>             | 6-3/4" (172mm)  | VT1675                         | SCO0675       |
| <b>W620687A</b>             | 6-7/8" (175mm)  | VT1687                         | SCO0687       |
| <b>W620700A</b>             | 7" (178mm)      | VT1700                         | SCO0700       |
| <b>W620712A</b>             | 7-1/8" (181mm)  | VT1712                         | SCO0712       |
| <b>W620725A</b>             | 7-1/4" (184mm)  | VT1725                         | SCO0725       |
| <b>W620737A</b>             | 7-3/8" (187mm)  | VT1737                         | SCO0737       |
| <b>W620750A</b>             | 7-1/2" (191mm)  | VT1750                         | SCO0750       |
| <b>W620762A</b>             | 7-5/8" (194mm)  | VT1762                         | SCO0762       |
| <b>W620775A</b>             | 7-3/4" (197mm)  | VT1775                         | SCO0775       |
| <b>W620787A</b>             | 7-7/8" (200mm)  | VT1787                         | SCO0787       |
| <b>W620800A</b>             | 8" (203mm)      | VT1800                         | SCO0800       |
| <b>W620812A</b>             | 8-1/8" (206mm)  | VT1812                         | SCO0812       |
| <b>W620825A</b>             | 8-1/4" (210mm)  | VT1825                         | SCO0825       |
| <b>W620837A</b>             | 8-3/8" (213mm)  | VT1837                         | SCO0837       |
| <b>W620850A</b>             | 8-1/2" (216mm)  | VT1850                         | SCO0850       |
| <b>W620862A</b>             | 8-5/8" (219mm)  | VT1862                         | SCO0862       |
| <b>W620887A</b>             | 8-3/4" (222mm)  | VT1887                         | SCO0875       |
| <b>W621000A</b>             | 10" (254mm)     | VT10000                        | SCO1000       |
| <b>W621075A</b>             | 10-3/4" (273mm) | VT10075                        | SCO1075       |
| <b>W621137A</b>             | 11-3/8" (289mm) | VT11037                        | SCO1137       |
| <b>W621200A</b>             | 12" (305mm)     | VT12000                        | SCO1200       |
| <b>W621275A</b>             | 12-3/4" (324mm) | VT12075                        | SCO1275       |

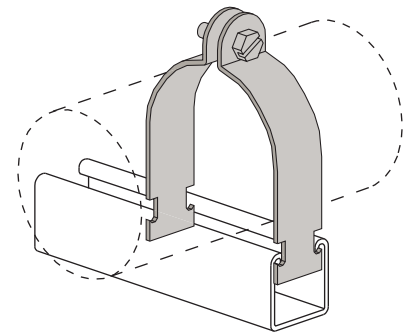


# Strut Clamps



Standard Finish: Electro Galvanized (EG)

## Universal Strut Clamp

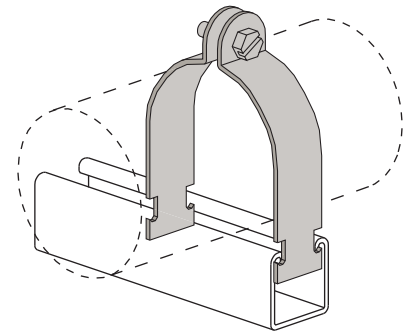


| SPECIFYING Brand & Part No. | Nominal Size | O.D. Size | Allowable Load Lbs. (kN) (ea.) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------|-----------|--------------------------------|--------------------------------|---------------|
|                             |              |           |                                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |              |           |                                |                                |               |
| W6056A                      | ½" (13mm)    | 0.773     | 400 (1.78 kN)                  | VP9050                         | SCU0050       |
| W6058A                      | ¾" (19mm)    | 0.986     | 600 (2.67 kN)                  | VP9075                         | SCU0075       |
| W6060A                      | 1" (25mm)    | 1.239     |                                | VP9100                         | SCU0100       |
| W6062A                      | 1-¼" (32mm)  | 1.585     |                                | VP9125                         | SCU0125       |
| W6064A                      | 1-½" (38mm)  | 1.820     |                                | VP9150                         | SCU0150       |
| W6068A                      | 2" (51mm)    | 2.286     |                                | VP9200                         | SCU0200       |
| W6142A                      | 2-½" (64mm)  |           | 800 (3.56 kN)                  | VP9250                         | --            |
| W6146A                      | 3" (76mm)    |           |                                | VP9300                         | --            |
| W6150A                      | 3-½" (89mm)  |           |                                | VP9350                         | --            |
| W6154A                      | 4" (102mm)   |           | 1,000 (4.45 kN)                | VP9400                         | --            |

\* These clamps are designed to fit both pipe (rigid conduit) and thin walled tubing (EMT) in the corresponding sizes.

## Copper Tube Strut Clamp

Copper Colored Epoxy or Powder Coated Clamps



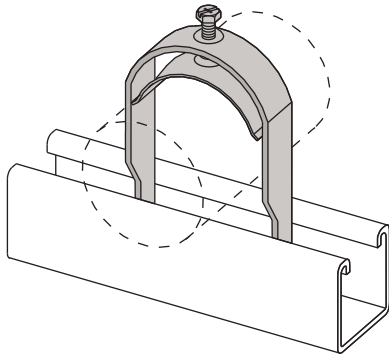
| SPECIFYING Brand & Part No. | Nominal Size | O.D. Size | Allowable Load Lbs. (kN) (ea.) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------|-----------|--------------------------------|--------------------------------|---------------|
|                             |              |           |                                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |              |           |                                |                                |               |
| W620037ACP                  | ¼" (6mm)     | 0.375     | 400 (1.78 kN)                  | VT1037CP                       | --            |
| W620050ACP                  | ⅜" (10mm)    | 0.500     |                                | VT1050CP                       | --            |
| W620062ACP                  | ½" (13mm)    | 0.625     |                                | VT1062CP                       | --            |
| W620075ACP                  | ⅝" (16mm)    | 0.750     |                                | VT1075CP                       | --            |
| W620087ACP                  | ¾" (19mm)    | 0.875     |                                | VT1087CP                       | --            |
| W620112ACP                  | 1" (25mm)    | 1.125     | 600 (2.67 kN)                  | VT1112CP                       | --            |
| W620137ACP                  | 1-¼" (32mm)  | 1.375     |                                | VT1137CP                       | --            |
| W620162ACP                  | 1-½" (38mm)  | 1.625     |                                | VT1162CP                       | --            |
| W620212ACP                  | 2" (51mm)    | 2.125     | 800 (3.56 kN)                  | VT1212CP                       | --            |
| W620262ACP                  | 2-½" (64mm)  | 2.625     |                                | VT1262CP                       | --            |
| W620312ACP                  | 3" (76mm)    | 3.125     | 1,000 (4.45 kN)                | VT1312CP                       | --            |
| W620362ACP                  | 3-½" (89mm)  | 3.625     |                                | VT1362CP                       | --            |
| W620412ACP                  | 4" (102mm)   | 4.125     |                                | VT1412CP                       | --            |
| W620512ACP                  | 5" (127mm)   | 5.125     |                                | VT1512CP                       | --            |
| W620612ACP                  | 6" (152mm)   | 6.125     |                                | VT1612CP                       | --            |
| W620812ACP                  | 8" (203mm)   | 8.125     |                                | VT1812CP                       | --            |

\* These clamps are designed to fit copper tube



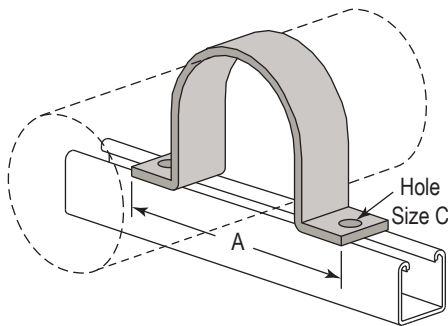
Standard Finish: Electro Galvanized (EG)

## Rigid Conduit One Piece Pipe Clamp



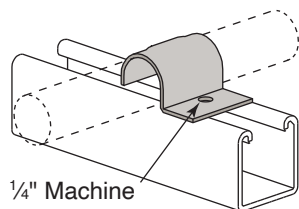
| SPECIFYING Brand & Part No. | EMT Size      | Rigid Conduit Size | Design Load Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|--------------------|-----------------------|--------------------------------|---------------|
|                             |               |                    |                       | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |               |                    |                       |                                |               |
| BMU050                      | 1/2" (13mm)   | --                 | 200<br>(0.89 kN)      | BMU050                         | SCH0050       |
| BMU075                      | 3/4" (19mm)   | 1/2" (13mm)        |                       | BMU075                         | SCH0075       |
| BMU100                      | 1" (25mm)     | 3/4" (19mm)        | 300<br>(1.33 kN)      | BMU100                         | SCH0100       |
| BMU125                      | 1 1/4" (32mm) | 1" (25mm)          |                       | BMU125                         | SCH0125       |
| BMU150                      | 1 1/2" (38mm) | 1 1/4" (32mm)      | 400<br>(1.78 kN)      | BMU150                         | SCH0150       |
| BMU200                      | 2" (51mm)     | 1 1/2" (38mm)      |                       | BMU200                         | SCH0200       |
| BMU250                      | 2 1/2" (64mm) | 2 1/2" (64mm)      |                       | BMU250                         | SCH0250       |
| BMU300                      | 3" (76mm)     | 3" (76mm)          |                       | BMU300                         | SCH0300       |
| BMU350                      | 3 1/2" (89mm) | 3 1/2" (89mm)      |                       | BMU350                         | SCH0350       |
| BMU400                      | 4" (102mm)    | 4" (102mm)         |                       | BMU400                         | SCH0400       |

## Pipe Strap



| SPECIFYING Brand & Part No. | Pipe Size | "A" Length       | "C" Hole Size     | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------|------------------|-------------------|--------------------------------|---------------|
|                             |           |                  |                   | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |           |                  |                   |                                |               |
| W7826                       | 1/2"      | 3" (76mm)        | 5/16"<br>(7.9mm)  | VP4050                         | PS20050       |
| W7828                       | 3/4"      | 3 1/4" (83mm)    |                   | VP4075                         | PS20075       |
| W7830                       | 1"        | 3 9/16" (90mm)   |                   | VP4100                         | PS20100       |
| W7832                       | 1 1/4"    | 3 13/16" (97mm)  |                   | VP4125                         | PS20125       |
| W7834                       | 1 1/2"    | 4 1/16" (103mm)  |                   | VP4150                         | PS20150       |
| W7838                       | 2"        | 5 13/16" (148mm) | 7/16"<br>(11.1mm) | VP4200                         | PS20200       |
| W7842                       | 2 1/2"    | 6 1/4" (159mm)   |                   | VP4250                         | PS20250       |
| W7846                       | 3"        | 7" (178mm)       |                   | VP4300                         | PS20300       |
| W7850                       | 3 1/2"    | 7 7/8" (200mm)   |                   | VP4350                         | PS20350       |
| W7854                       | 4"        | 8" (203mm)       |                   | VP4400                         | PS20400       |
| W7862                       | 5"        | 9 1/8" (232mm)   |                   | VP4500                         | PS20500       |
| W7870                       | 6"        | 10 5/16" (262mm) |                   | VP4600                         | PS20600       |

## 1-Hole O.D. Tubing Clamp



1/4" Machine Screw and Strut Nut Not Included

| SPECIFYING Brand & Part No. | O.D. Tube Size | CL            | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|---------------|--------------------------------|---------------|
|                             |                |               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                |               |                                |               |
| W7724                       | 1/4"           | 9/16" (14mm)  | VT2025                         | TC10025       |
| W7724A                      | 5/16"          | 9/16" (14mm)  | VT2031                         | TC10031       |
| W7725                       | 3/8"           | 5/8" (16mm)   | VT2037                         | TC10037       |
| W7726                       | 1/2"           | 11/16" (17mm) | VT2050                         | TC10050       |
| W7727                       | 5/8"           | 3/4" (19mm)   | VT2062                         | TC10062       |
| W7728                       | 3/4"           | 13/16" (21mm) | VT2075                         | TC10075       |
| W7729                       | 7/8"           | 7/8" (22mm)   | VT2087                         | TC10087       |
| W7730                       | 1"             | 15/16" (24mm) | VT2100                         | TC10100       |

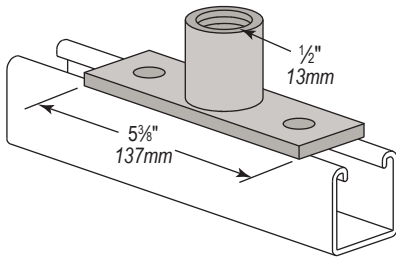


# Pipe Hangers



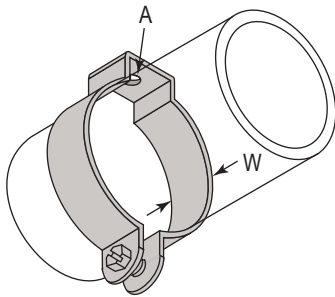
Standard Finish: Electro Galvanized (EG)

## Pipe Coupling Fitting



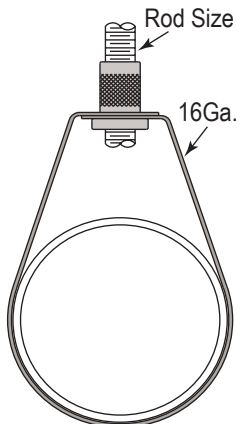
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                                |               |
| W247050                     | --                             | --            |

## Conduit Hangers



| SPECIFYING Brand & Part No. | Pipe Size     | Stock Gauge    | Dim "A"        | Dim "W"        | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|----------------|----------------|----------------|--------------------------------|---------------|
|                             |               |                |                |                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |               |                |                |                |                                |               |
| SHH050                      | 1/2" (13mm)   | 18 ga. (1.3mm) | 9/32" (7.1mm)  | 3/4" (19mm)    | VP13050                        | --            |
| SHH075                      | 3/4" (19mm)   |                |                |                | VP13075                        | --            |
| SHH100                      | 1" (25mm)     |                |                |                | VP13100                        | --            |
| SHH125                      | 1-1/4" (32mm) |                |                |                | VP13125                        | --            |
| SHH150                      | 1-1/2" (38mm) | 16 ga. (1.3mm) | 1 1/2" (8.7mm) | 7/16" (11.1mm) | VP13150                        | --            |
| SHH200                      | 2" (51mm)     |                |                |                | VP13200                        | --            |
| SHH250                      | 2-1/2" (64mm) |                |                |                | VP13250                        | --            |
| SHH300                      | 3" (76mm)     |                |                |                | VP13300                        | --            |
| SHH350                      | 3-1/2" (89mm) |                |                |                | VP13350                        | --            |
| SHH400                      | 4" (102mm)    |                |                |                | VP13400                        | --            |

## Loop Hangers



| SPECIFYING Brand & Part No. | Pipe Size     | Rod Size | Max Rec Load (Lbs.) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|----------|---------------------|--------------------------------|---------------|
|                             |               |          |                     | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |               |          |                     |                                |               |
| BHK050                      | 1/2" (13mm)   | 3/8"     | 400 (1.78 kN)       | VP7050                         | LH0050EG      |
| BHK075                      | 3/4" (19mm)   |          |                     | VP7075                         | LH0075EG      |
| BHK100                      | 1" (25mm)     |          |                     | VP7100                         | LH0100EG      |
| BHK125                      | 1-1/4" (32mm) |          |                     | VP7125                         | LH0125EG      |
| BHK150                      | 1-1/2" (38mm) |          |                     | VP7150                         | LH0150EG      |
| BHK200                      | 2" (51mm)     |          | VP7200              | LH0200EG                       |               |
| BHK250                      | 2-1/2" (64mm) |          | 600 (2.67 kN)       | VP7250                         | LH0250EG      |
| BHK300                      | 3" (76mm)     |          | VP7300              | LH0300EG                       |               |
| BHK400                      | 4" (102mm)    |          | 1,000 (4.45 kN)     | VP7400                         | LH0400EG      |
| BHK500                      | 5" (127mm)    |          | 1/2"                | 1,250 (5.56 kN)                | VP7500        |
| BHK600                      | 6" (152mm)    | VP7600   |                     |                                | LH0600EG      |
| BHK800                      | 8" (203mm)    | VP7800   |                     |                                | LH0800EG      |



Standard Finish: Electro Galvanized (EG)

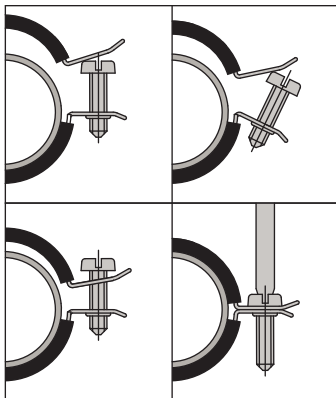
## SPH Cush-A-Ring Clamps

SPH Cush-A-Ring Clamp for Copper Tube or Steel Tube or Pipe

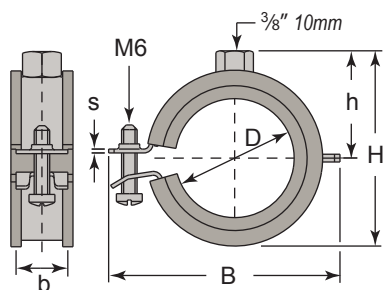


The **Cush-A-Ring** is a unique rubber lined hanger for copper and steel tube or pipe. The SPH-1 thru SPH-10 is a two-part clamp that has a hinged side with a single screw locking system. The quick locking system is easy to close with one hand, which makes it easier and faster for installation. The noise insulating rubber lining is made of UV-resistant EPDM rubber. The Cush-A-Ring is zinc plated for corrosion resistance.

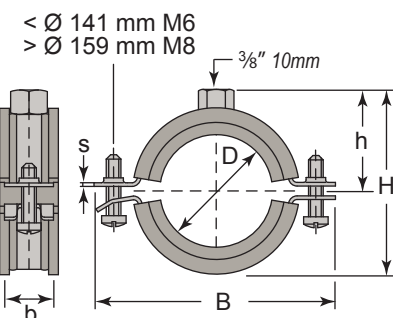
- Rubber lined, noise insulated, Lining resistant to aging
- With quick locking system
- Clamp easy to close with one hand
- UV-resistant black EPDM rubber lining
- Zinc plated
- Plenum rated - tested to ASTM E-84
- Meets - Buy America Act
- Temperature range -58°F to +200°F (-50°C to 93°C)



SPH-1 thru SPH-10



SPH-11 thru SPH-14



| Part No.                                      | Dimensions (in) |                   |                  |                  |                  |                  |            |
|---|-----------------|-------------------|------------------|------------------|------------------|------------------|------------|
|   | D (mm)          | IP                | CT               | B                | H                | h                | b x s (mm) |
| SPH-1   | 11 – 14         | 1/4"<br>(6mm)     | 3/8"<br>(10mm)   | 1.9"<br>(48mm)   | 1.4"<br>(36mm)   | 0.87"<br>(22mm)  | 20 x 1.25  |
| SPH-2   | 15 – 18         | 3/8"<br>(10mm)    | 1/2"<br>(13mm)   | 1.9"<br>(48mm)   | 1.4"<br>(36mm)   | 0.87"<br>(22mm)  |            |
| SPH-3   | 20 – 23         | 1/2"<br>(13mm)    | 3/4"<br>(19mm)   | 2.2"<br>(56mm)   | 1.6"<br>(41mm)   | 0.94"<br>(24mm)  |            |
| SPH-4   | 25 – 28         | 3/4"<br>(19mm)    | 1"<br>(25mm)     | 2.4"<br>(61mm)   | 1.8"<br>(46mm)   | 1.10"<br>(28mm)  |            |
| SPH-5   | 31 – 35         | 1"<br>(25mm)      | 1-1/4"<br>(32mm) | 2.6"<br>(66mm)   | 2.0"<br>(51mm)   | 1.20"<br>(30mm)  |            |
| SPH-6   | 40 – 43         | 1-1/4"<br>(32mm)  | 1-1/2"<br>(38mm) | 3.0"<br>(76mm)   | 2.4"<br>(61mm)   | 1.30"<br>(33mm)  |            |
| SPH-7   | 48 – 53         | 1-1/2"<br>(38mm)  | -                | 3.3"<br>(84mm)   | 2.6"<br>(66mm)   | 1.50"<br>(38mm)  |            |
| SPH-8   | 54 – 56         | -                 | 2"<br>(51mm)     | 3.5"<br>(89mm)   | 2.8"<br>(71mm)   | 1.60"<br>(41mm)  |            |
| SPH-9   | 57 – 63         | 2"<br>(51mm)      | -                | 3.7"<br>(94mm)   | 3.1"<br>(79mm)   | 1.70"<br>(43mm)  |            |
| SPH-10  | 64-70           | -                 | 2-1/2"<br>(64mm) | 4.5"<br>(114mm)  | 3.9"<br>(99mm)   | 2.20"<br>(56mm)  |            |
| <b>Below parts have 2 bolt configurations</b> |                 |                   |                  |                  |                  |                  |            |
| SPH-11  | 73-80           | 2-1/2"<br>(64 mm) | 3"<br>(76 mm)    | 5.0"<br>(127 mm) | 4.3"<br>(109 mm) | 2.40"<br>(61 mm) | 23 x 2.00  |
| SPH-12  | 83-91           | 3"<br>(76 mm)     | -                | 5.4"<br>(137 mm) | 4.8"<br>(122 mm) | 2.60"<br>(66 mm) | 25 x 2.50  |
| SPH-13  | 100- 105        | -                 | 4"<br>(102 mm)   | 6.0"<br>(152 mm) | 5.3"<br>(135 mm) | 2.90"<br>(74 mm) |            |
| SPH-14  | 108-114         | 4"<br>(102 mm)    | -                | 6.3"<br>(160 mm) | 5.7"<br>(145 mm) | 3.10"<br>(79 mm) |            |



Standard Finish: Electro Galvanized (EG)

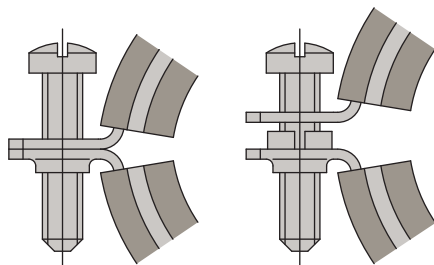
## SPP Cush-A-Ring Clamps

SPP Cush-A-Ring Clamp for PEX, CPVC, or PVC Pipe

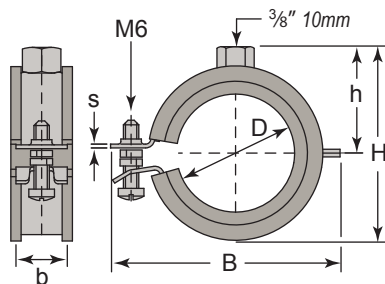


The **Cush-A-Ring** is a unique rubber lined hanger for PEX, CPVC, and PVC pipe. The SPP-1 thru SPP-10 has a two-part clamp with a hinged side and a single screw locking system. The quick locking system is easy to close with one hand, which makes it easier and faster for installation. The noise insulating rubber lining is made of UV-resistant EPDM rubber. The Cush-A-Ring is zinc plated for corrosion resistance.

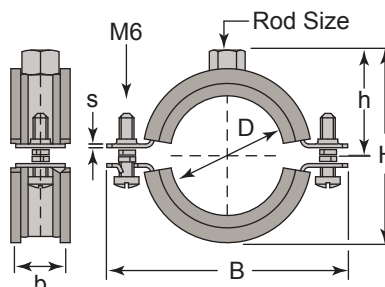
- With quick locking system
- Clamp easy to close with one hand
- Specially formulated, green, UV, and age resistant EPDM rubber lining
- Perfect for PEX, Fusion, CPVC, and PVC pipe
- ASTM E-84
- Complies with MSS SP-58 and SP-69
- Material steel, zinc plated



SPP-2 thru SPP-10



SPP-11 thru SPP-14



| Part No.                                      | Dimensions (in) |               |               |              |              |              | Rod Size    |
|---|-----------------|---------------|---------------|--------------|--------------|--------------|-------------|
|   | D               | IP            | CT            | B            | H            | h            |             |
| SPP-2   | 15 – 18         | 3/8" (10mm)   | 1/2" (13mm)   | 1.9" (48mm)  | 1.4" (36mm)  | 0.87" (22mm) | 3/8" (10mm) |
| SPP-3   | 20 – 23         | 1/2" (13mm)   | 3/4" (19mm)   | 2.2" (56mm)  | 1.7" (43mm)  | 0.94" (24mm) |             |
| SPP-4   | 25 – 28         | 3/4" (19mm)   | 1" (25mm)     | 2.4" (61mm)  | 1.9" (48mm)  | 1.0" (25mm)  |             |
| SPP-5   | 31 – 35         | 1" (25mm)     | 1-1/4" (32mm) | 2.6" (66mm)  | 2.2" (56mm)  | 1.2" (30mm)  |             |
| SPP-6   | 40 – 43         | 1-1/4" (32mm) | 1-1/2" (38mm) | 3.0" (76mm)  | 2.6" (66mm)  | 1.3" (33mm)  |             |
| SPP-7   | 48 – 53         | 1-1/2" (38mm) | -             | 3.3" (84mm)  | 3.0" (76mm)  | 1.5" (38mm)  |             |
| SPP-8   | 54 – 56         | -             | 2" (51mm)     | 3.5" (89mm)  | 3.0" (76mm)  | 1.6" (41mm)  |             |
| SPP-9   | 60 – 65         | 2" (51mm)     | -             | 4.3" (109mm) | 3.4" (86mm)  | 1.7" (43mm)  |             |
| SPP-10  | 70 – 76         | 2-1/2" (64mm) | -             | 4.9" (124mm) | 4.1" (104mm) | 2.2" (56mm)  |             |
| <b>Below parts have 2 bolt configurations</b> |                 |               |               |              |              |              |             |
| SPP-11  | 86 – 91         | 3" (76mm)     | -             | 5.4" (137mm) | 4.6" (117mm) | 2.4" (61mm)  | 3/8" (10mm) |
| SPP-12  | 110 – 114       | 4" (102mm)    | -             | 6.3" (160mm) | 5.8" (147mm) | 2.9" (74mm)  |             |
| SPP-13  | 124 – 132       | -             | -             | 6.8" (173mm) | 5.9" (150mm) | 3.1" (79mm)  | 1/2" (13mm) |
| SPP-14  | 155 – 160       | -             | -             | 8.0" (203mm) | 7.4" (188mm) | 3.9" (99mm)  |             |

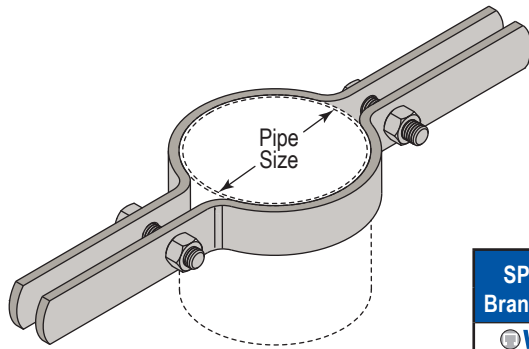


Introduction  
Channel  
Channel Nuts & Hardware  
General Fittings  
Brackets  
Beam Clamps  
Pipe & Conduit Supports  
Electrical Fittings  
Spring Steel  
Concrete Inserts  
Roofing Supports  
Fiberglass System  
Technical Data



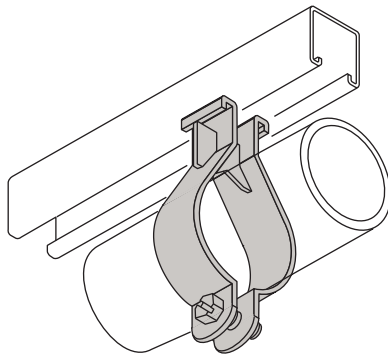
Standard Finish: Electro Galvanized (EG)

## Pipe Riser Clamps



| SPECIFYING Brand & Part No. | Pipe Size   | Max Rec Load (Lbs.) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|---------------------|--------------------------------|---------------|
|                             |             |                     | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                     |                                |               |
| RCL050                      | ½" (13mm)   | 220 (0.98 kN)       | VP8050                         | --            |
| RCL075                      | ¾" (19mm)   |                     | VP8075                         | --            |
| RCL100                      | 1" (25mm)   | 255 (1.13 kN)       | VP8100                         | RC0100        |
| RCL125                      | 1-¼" (32mm) |                     | VP8125                         | RC0125        |
| RCL150                      | 1-½" (38mm) |                     | VP8150                         | RC0150        |
| RCL200                      | 2" (51mm)   |                     | VP8200                         | RC0200        |
| RCL250                      | 2-½" (64mm) | 390 (1.74 kN)       | VP8250                         | RC0250        |
| RCL300                      | 3" (76mm)   | 530 (2.36 kN)       | VP8300                         | RC0300        |
| RCL350                      | 3-½" (89mm) | 600 (2.67 kN)       | VP8350                         | --            |
| RCL400                      | 4" (102mm)  | 810 (3.60 kN)       | VP8400                         | RC0400        |
| RCL500                      | 5" (127mm)  | 1,500 (6.67 kN)     | VP8500                         | --            |
| RCL600                      | 6" (152mm)  | 1,570 (6.98 kN)     | VP8600                         | RC0600        |
| RCL800                      | 8" (203mm)  | 2,500 (11.12 kN)    | VP8800                         | RC0800        |

## Parallel Pipe Clamps



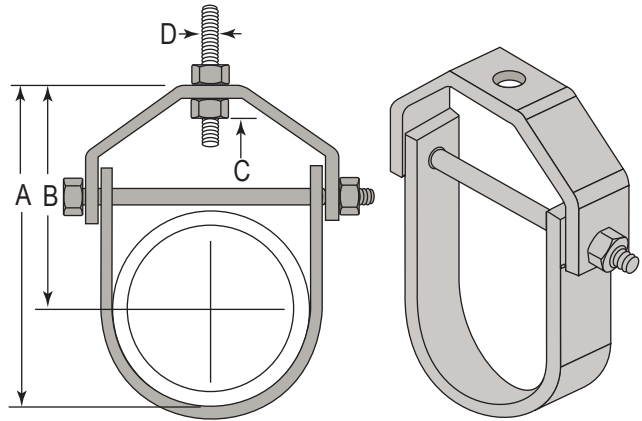
| SPECIFYING Brand & Part No. | Pipe Size   | Actual O.D.      | Design Load (Lbs.) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------|------------------|--------------------|--------------------------------|---------------|
|                             |             |                  |                    | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |             |                  |                    |                                |               |
| W6005                       | ⅜" (10mm)   | 0.675" (17.1mm)  | 300 (1.35 kN)      | VP6037                         | --            |
| W6006                       | ½" (13mm)   | 0.840" (21.3mm)  |                    | VP6050                         | --            |
| W6007                       | ¾" (19mm)   | 1.050" (26.7mm)  |                    | VP6075                         | --            |
| W6008                       | 1" (25mm)   | 1.315" (33.4mm)  | 400 (1.80 kN)      | VP6100                         | --            |
| W6009                       | 1-¼" (32mm) | 1.660" (42.2mm)  |                    | VP6125                         | --            |
| W6010                       | 1-½" (38mm) | 1.900" (48.3mm)  | 500 (2.25 kN)      | VP6150                         | --            |
| W6011                       | 2" (51mm)   | 2.375" (60.3mm)  |                    | VP6200                         | --            |
| W6012                       | 2-½" (64mm) | 2.875" (73.0mm)  |                    | VP6250                         | --            |
| W6013                       | 3" (76mm)   | 3.500" (88.9mm)  |                    | VP6300                         | --            |
| W6014                       | 3-½" (89mm) | 4.000" (101.6mm) |                    | VP6350                         | --            |
| W6015                       | 4" (102mm)  | 4.500" (114.3mm) | VP6400             | --                             |               |



Standard Finish: Electro Galvanized (EG)

## Standard Adjustable Clevis Hangers

For: Non-Insulated, stationary pipe lines. General piping, heating and sprinkler installations. \* Also available: Stainless, Hot-Dipped, and Black H.R.P.O., (Larger sizes for up to 30" rigid pipe can be supplied)



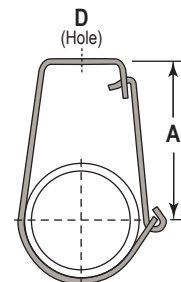
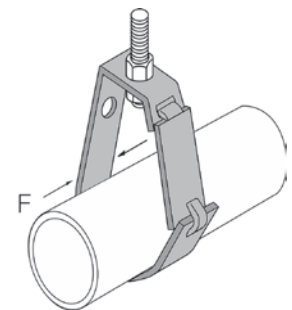
| SPECIFYING Brand & Part No. | Pipe Size     | A                | B                | C               | Rod Size D  | Design Load (Lbs.) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|------------------|------------------|-----------------|-------------|--------------------|--------------------------------|---------------|
|                             |               |                  |                  |                 |             |                    | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> SCH050       | 1/2" (13mm)   | 2-1/8" (54mm)    | 1-11/16" (43mm)  | 7/16" (11mm)    | 3/8" (10mm) | 610 (2.71 kN)      | VP2050                         | CH0050        |
| SCH075                      | 3/4" (19mm)   | 2-7/16" (62mm)   | 1-7/8" (48mm)    | 1/2" (13mm)     |             |                    | VP2075                         | CH0075        |
| SCH100                      | 1" (25mm)     | 2-13/16" (71mm)  | 2-1/8" (54mm)    | 5/8" (16mm)     |             |                    | VP2100                         | CH0100        |
| SCH125                      | 1-1/4" (32mm) | 3-7/16" (87mm)   | 2-9/16" (65mm)   | 7/8" (22mm)     |             |                    | VP2125                         | CH0125        |
| SCH150                      | 1-1/2" (38mm) | 4" (102mm)       | 3" (76mm)        | 1-1/16" (27mm)  |             |                    | VP2150                         | CH0150        |
| SCH200                      | 2" (51mm)     | 4-7/8" (124mm)   | 3-11/16" (94mm)  | 1-5/8" (41mm)   |             |                    | VP2200                         | CH0200        |
| SCH250                      | 2-1/2" (64mm) | 6-1/8" (156mm)   | 4-1/16" (119mm)  | 2" (51mm)       | 1/2" (13mm) | 1,130 (5.03 kN)    | VP2250                         | CH0250        |
| SCH300                      | 3" (76mm)     | 6-9/16" (166mm)  | 4-3/4" (121mm)   | 1-3/4" (44mm)   |             |                    | VP2300                         | CH0300        |
| SCH350                      | 3-1/2" (89mm) | 6-15/16" (176mm) | 4-15/16" (125mm) | 1-3/4" (44mm)   |             |                    | VP2350                         | --            |
| SCH400                      | 4" (102mm)    | 7-13/16" (199mm) | 5-9/16" (142mm)  | 1-15/16" (49mm) | 5/8" (16mm) | --                 | VP2400                         | CH0400        |
| SCH500                      | 5" (127mm)    | 9" (229mm)       | 6-3/16" (158mm)  | 1-3/4" (44mm)   |             |                    | VP2500                         | --            |
| SCH600                      | 6" (152mm)    | 10-1/8" (257mm)  | 6-13/16" (173mm) | 1-7/8" (48mm)   | 3/4" (19mm) | --                 | VP2600                         | --            |
| SCH800                      | 8" (203mm)    | 12-5/8" (321mm)  | 8-5/16" (212mm)  | 2-1/8" (54mm)   | 7/8" (22mm) | --                 | VP2800                         | --            |

\*A & B Dimensions may vary

## Side Opening Hangers

Swing Hinge Design

Can be supported by rod or bolted directly to wall.  
Hanger is rigid enough to hold pipe prior to closure



| SPECIFYING Brand & Part No. | Pipe Size     | A               | D           | F             | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|-----------------|-------------|---------------|--------------------------------|---------------|
|                             |               |                 |             |               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W4050H       | 1/2" (13mm)   | 2-7/16" (62mm)  | 3/8" (10mm) | 3/4" (19mm)   | VP3050                         | --            |
| W4075H                      | 3/4" (19mm)   | 2-1/2" (64mm)   |             |               | VP3075                         | --            |
| W4100H                      | 1" (25mm)     | 2-9/16" (65mm)  |             |               | VP3100                         | --            |
| W4125H                      | 1-1/4" (32mm) | 2-11/16" (68mm) |             |               | VP3125                         | --            |
| W4150H                      | 1-1/2" (38mm) | 2-7/8" (73mm)   |             |               | VP3150                         | --            |
| W4200H                      | 2" (51mm)     | 3-5/16" (84mm)  |             |               | VP3200                         | --            |
| W4250H                      | 2-1/2" (64mm) | 3-7/8" (98mm)   | 1/2" (13mm) | 1-1/4" (32mm) | VP3250                         | --            |
| W4300H                      | 3" (76mm)     | 4-1/8" (105mm)  |             |               | VP3300                         | --            |
| W4350H                      | 3-1/2" (89mm) | 4-5/8" (117mm)  |             |               | VP3350                         | --            |
| W4400H                      | 4" (102mm)    | 5" (127mm)      |             |               | VP3400                         | --            |



Standard Finish: Electro Galvanized (EG)

## Adjustable J-Hanger

**Finish:** Electro Galvanized (standard) or Stainless Steel

**Size Range:** 1/2" thru 4" (13mm to 102mm) Pipe

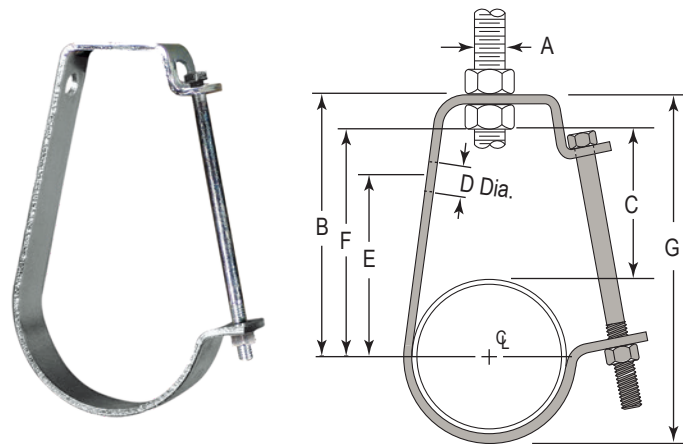
**Material:** Carbon Steel

**Function:** Can be suspended by hanger rod or attached to a wall. "T" slot in hanger permits side bolt to be installed after installation and setting of pipe.

**Approvals:** Conforms to Manufacturers Standardization Society SP-69, Type 5.

**Maximum Temperature:** 650° F (343°C)

**Finish:** Carbon Steel



| SPECIFYING Brand & Part No. | Pipe Size | A Rod Size | B                    | C                   | D                | E                   | F                   | Bolt Size | G                    | Stock Size     | Max. Rec. Load Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------|------------|----------------------|---------------------|------------------|---------------------|---------------------|-----------|----------------------|----------------|--------------------------|--------------------------------|---------------|
|                             |           |            |                      |                     |                  |                     |                     |           |                      |                |                          | VERSABAR                       | FLORIDA STRUT |
| <b>W4050</b>                | 1/2"      | 3/8"       | 2-5/8"<br>(67 mm)    | 1-3/4"<br>(44 mm)   | 7/16"<br>(11 mm) | 1-1/2"<br>(38 mm)   | 1-15/16"<br>(49 mm) | 1/4"      | 3-5/32"<br>(80 mm)   | 12 ga. x 3/4"  | 400<br>(1.78 kN)         | VP3050                         | --            |
| <b>W4075</b>                | 3/4"      |            | 2-7/8"<br>(73 mm)    | 1-7/8"<br>(48 mm)   |                  | 1-11/16"<br>(43 mm) | 2-1/8"<br>(54 mm)   |           | 3-1/2"<br>(89 mm)    |                |                          | VP3075                         | --            |
| <b>W4100</b>                | 1"        |            | 2-15/16"<br>(75 mm)  | 1-15/16"<br>(49 mm) |                  | 1-13/16"<br>(46 mm) | 2-5/16"<br>(59 mm)  |           | 3-11/16"<br>(94 mm)  |                |                          | VP3100                         | --            |
| <b>W4125</b>                | 1-1/4"    |            | 3-1/4"<br>(83 mm)    | 2"<br>(51 mm)       |                  | 2-1/16"<br>(52 mm)  | 2-5/8"<br>(67 mm)   |           | 4-1/8"<br>(105 mm)   |                |                          | VP3125                         | --            |
| <b>W4150</b>                | 1-1/2"    |            | 3-9/16"<br>(90 mm)   | 2-3/16"<br>(56 mm)  |                  | 2-7/16"<br>(62 mm)  | 2-7/8"<br>(73 mm)   |           | 4-5/8"<br>(117 mm)   |                |                          | VP3150                         | --            |
| <b>W4200</b>                | 2"        |            | 3-11/16"<br>(94 mm)  | 2-1/8"<br>(54 mm)   |                  | 2-9/16"<br>(65 mm)  | 3-1/16"<br>(78 mm)  |           | 5"<br>(127 mm)       |                |                          | VP3200                         | --            |
| <b>W4250</b>                | 2-1/2"    | 1/2"       | 4-7/16"<br>(113 mm)  | 2-7/16"<br>(62 mm)  | 9/16"<br>(14 mm) | 3-3/16"<br>(81 mm)  | 3-5/8"<br>(92 mm)   | 3/8"      | 6"<br>(152 mm)       | 3/16" x 1-1/4" | 500<br>(2.22 kN)         | VP3250                         | --            |
| <b>W4300</b>                | 3"        |            | 4-13/16"<br>(122 mm) | 2-9/16"<br>(65 mm)  |                  | 3-1/2"<br>(89 mm)   | 4-1/16"<br>(103 mm) |           | 6-21/32"<br>(169 mm) |                |                          | VP3300                         | --            |
| <b>W4350</b>                | 3-1/2"    |            | 5-1/8"<br>(130 mm)   | 2-5/8"<br>(67 mm)   |                  | 3-3/4"<br>(95 mm)   | 4-3/8"<br>(111 mm)  |           | 7-5/16"<br>(186 mm)  |                |                          | VP3350                         | --            |
| <b>W4400</b>                | 4"        |            | 5/8"                 | 6-1/8"<br>(156 mm)  |                  | 3-3/16"<br>(81 mm)  | 4-5/8"<br>(117 mm)  |           | 5-3/16"<br>(132 mm)  |                |                          | 8-9/16"<br>(217 mm)            | VP3400        |

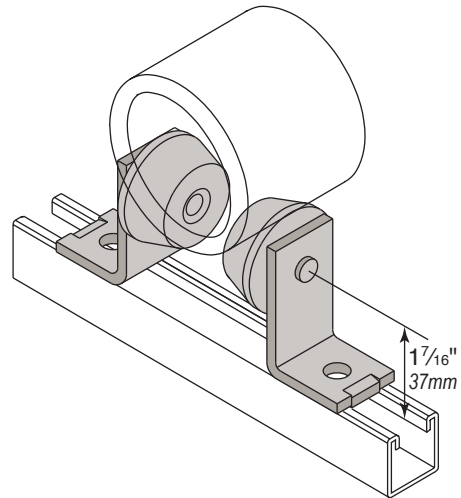


Standard Finish: Electro Galvanized (EG)

## Pipe Roller - No Axle

For 1" to 4" Pipe

Cast Aluminum rollers  
Steel portion has Electro-galvanized Finish

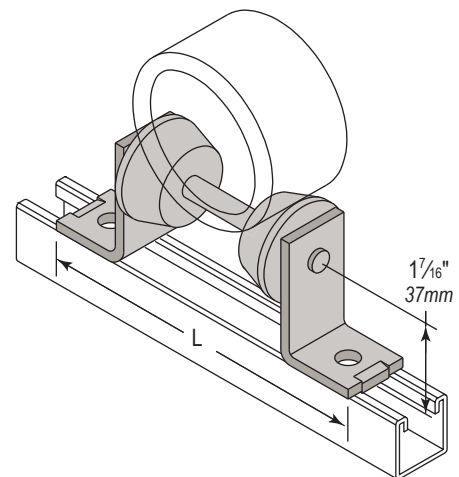


| SPECIFYING Brand & Part No. | Design Load<br>12 Ga. Channel | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------------------------------|--------------------------------|---------------|
|                             |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>SPR14     | 500 Lbs.<br>(2.22 kN)         | VPR                            | R20           |

## Pipe Roller - With Axle

For 1/2" to 10" Pipe

Cast Aluminum rollers  
Steel portion has Electro-galvanized Finish



| SPECIFYING Brand & Part No. | Pipe Size                  | L              | Design Load<br>12 Ga. Channel | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------------------|----------------|-------------------------------|--------------------------------|---------------|
|                             |                            |                |                               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>SPRA3     | 1/2" - 3" (13mm - 76mm)    | 6-1/2" (165mm) | 750 Lbs.<br>(3.3 kN)          | VPR1                           | --            |
| SPRA4                       | 3-1/2" - 4" (89mm - 102mm) | 7" (178mm)     |                               | VPR2                           | R213740       |
| SPRA5                       | 5" (127mm)                 | 7-1/2" (191mm) |                               | VPR3                           | R214350       |
| SPRA6                       | 6" (152mm)                 | 7-3/4" (197mm) |                               | VPR4                           | R214360       |
| SPRA8                       | 8" (203mm)                 | 9" (229mm)     |                               | VPR5                           | R216380       |
| SPRA10                      | 9" - 10" (229mm - 254mm)   | --             |                               | --                             | R219010       |

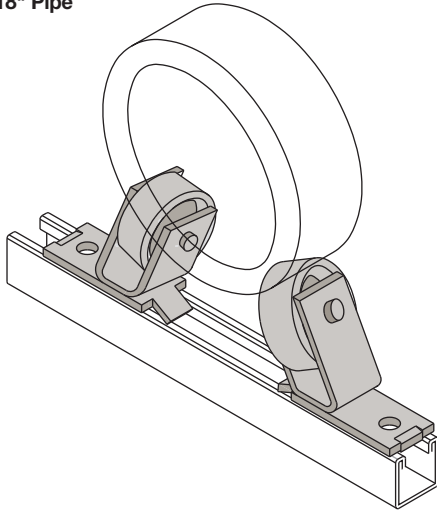
Pipe without insulation




Standard Finish: Electro Galvanized (EG)

## Pipe Roller - Heavy Duty

For 6" to 18" Pipe

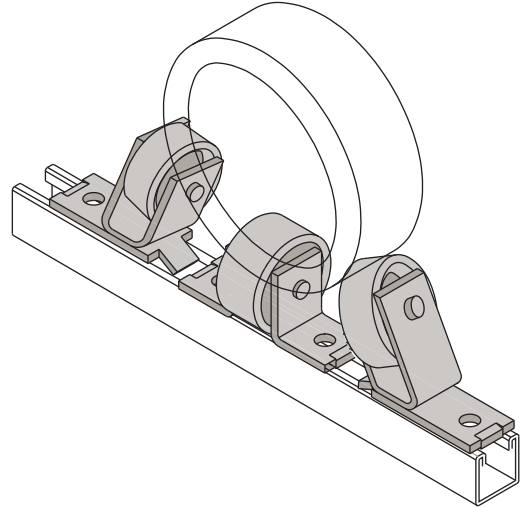


Cast Aluminum rollers  
Steel portion has Electro-galvanized Finish


| SPECIFYING Brand & Part No.  | Design Load<br>12 Ga. Channel | DISCONTINUED Brands & Part No. |               |
|--|-------------------------------|--------------------------------|---------------|
|  |                               | VERSABAR                       | FLORIDA STRUT |
|  <b>WESANCO</b> |                               |                                |               |
| <b>SPRHD18</b>   | 1,500 Lbs.<br>(6.67 kN)       | VPR2000                        | R22           |

## Pipe Roller - Heavy Duty

For 16" to 24" Pipe



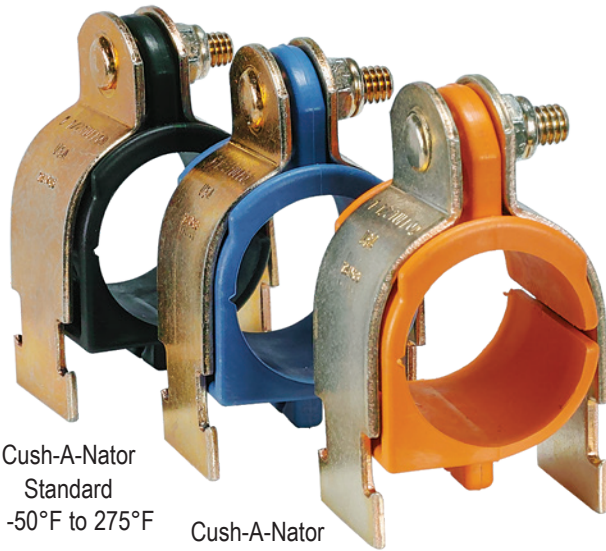
Cast Aluminum rollers  
Steel portion has Electro-galvanized Finish

| SPECIFYING Brand & Part No.  | Design Load<br>12 Ga. Channel | DISCONTINUED Brands & Part No. |               |
|--|-------------------------------|--------------------------------|---------------|
|  |                               | VERSABAR                       | FLORIDA STRUT |
|  <b>WESANCO</b> |                               |                                |               |
| <b>SPRHD24</b>   | 2,000 Lbs.<br>(8.90 kN)       | VPR3000                        | R23           |





## Cush-A-Nator®



Cush-A-Nator  
Standard  
-50°F to 275°F

Cush-A-Nator  
High Temp  
-65°F to 340°F

Cush-A-Nator  
High Intensity Temp  
-65°F to 400°F

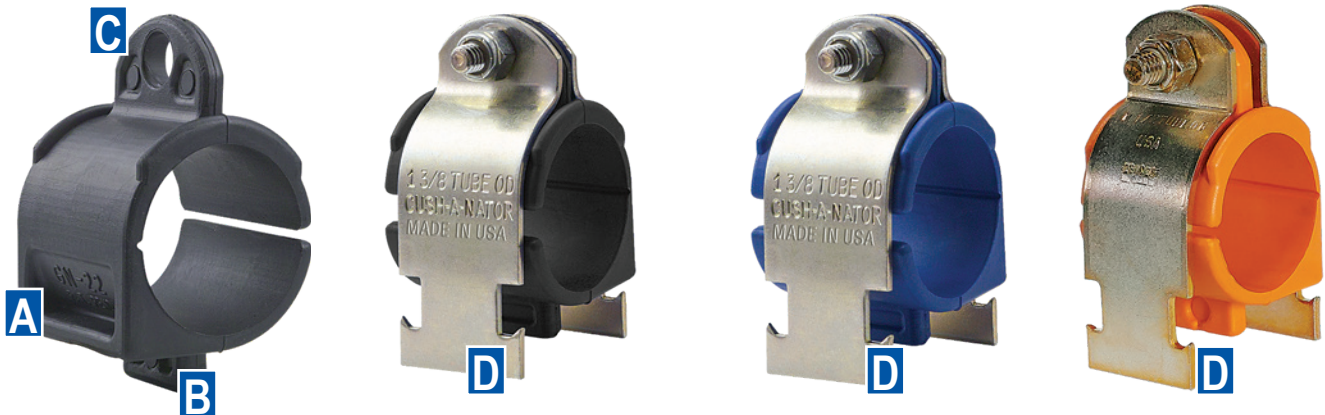
The Cush-A-Nator® cushion is manufactured in the United States and made from a new incredibly durable thermoplastic rubber that resists high heat and provides longer life against vibration fatigue. The Cush-A-Nator is made from a proprietary thermoplastic vulcanized material cross-linked with high performance rubber and thermoplastic elastomers, which produces the highest operating temperature range in the industry.



New Cush-A-Nator High Intensity Temp  
has a service temperature of  
-65°F to 400°F

The Cush-A-Nator® is designed to provide the user with a choice of the highest heat range resistance of any cushion on the market or simply the advanced features of a superior design.

*The Cush-A-Nator is designed and manufactured in Michigan.*



### Features

#### A Thumb Drive

The Cush-A-Nator has the exclusive "Thumb Drive" that provides the installer a gripping point to easily open the cushion with the help of leverage tabs and a living hinge. Easy and effortlessly to install.

#### B Self-Alignment

Cushion can be opened and placed over the pipe or tube and rotated into place while on the channel and automatically aligned with the channel opening ready for clamping.

#### C Pressure Control

The Cush-A-Nator cushion has a built in squeeze control as part of the cushion design. The side opening and the squeeze control tab provides evenly distributed pressure around the tube or pipe.

#### D Complete Clamping Unit

The Cush-A-Nator is the only strut mounted cushion that is mechanically connected to the supporting steel clamp because the bolt passes through the squeeze control tab forming the single unit connection. This design helps prevent the cushion from excess vibration by being attached directly to the clamp.

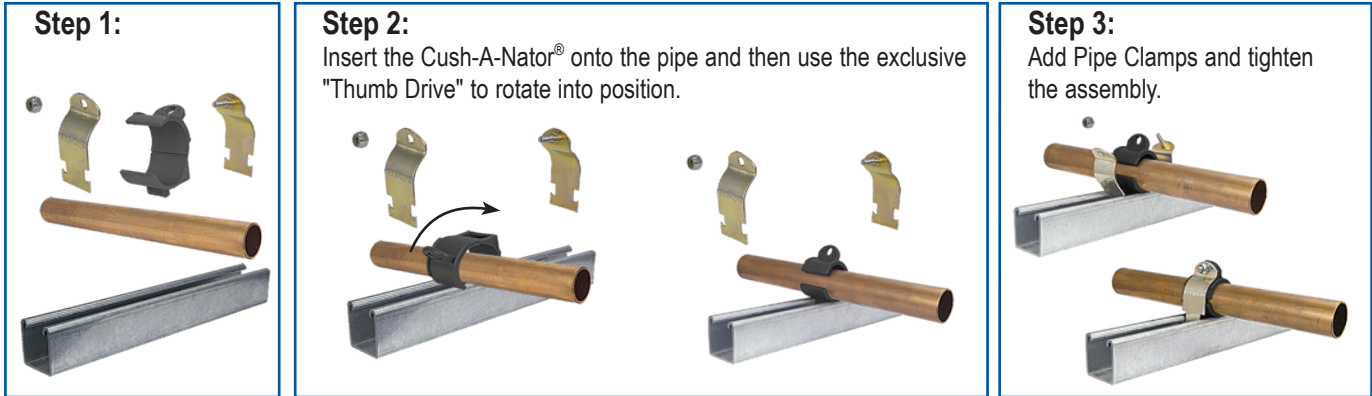
Cush-A-Nator® is manufactured under U.S. patents #9074715, #D702113, #D710190, and European Community patents #0013843410001, #0013843410002, and a United Kingdom patent pending.

Installation examples shown on next page





**Cush-A-Nator® – New Installations**



**Cush-A-Nator® – Retrofit / Replacement Applications**

A key feature of the Cush-A-Nator is this ability to place the cushion and rotate into position. *Perfect for retrofit applications!*

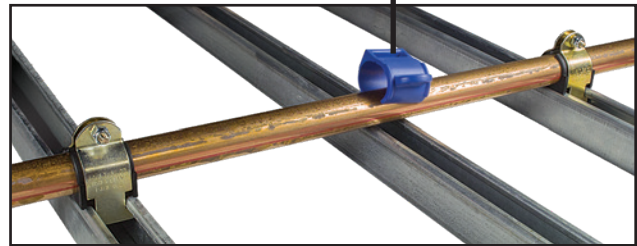
**Retrofit - The Common Problem**

Replacing a cush-a-clamp within a long pipe run poses a problem. Clamps before and after the one to be replaced prohibit the pipe from being raised so that the new cushion can be installed correctly. All too often a work-around is used which compromises the connection.

**Retrofit - The Perfect Solution**

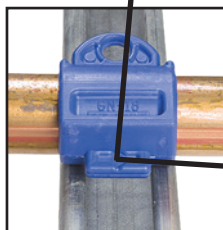
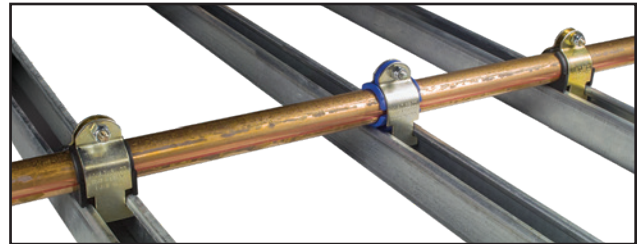
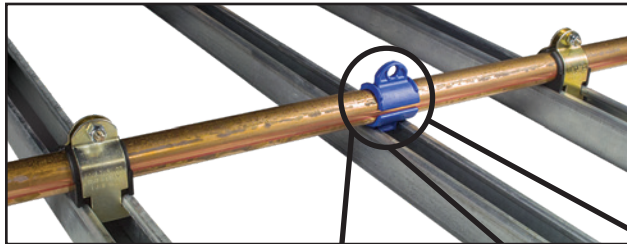
**Step 1:** Remove Bad Cushion.

**Step 2:** The Cush-A-Nator can be installed without raising the pipe. The unique "Thumb Drive" allows you to rotate the Cush-A-Nator into position.

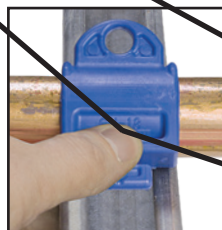


**Step 3:** Rotated into place while on the channel and the Self-Alignment tab automatically aligns with the channel opening ready for clamping.

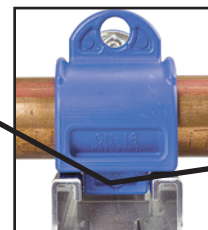
**Step 3:** Add Pipe Clamps and tighten the assembly.



Rotate into Position

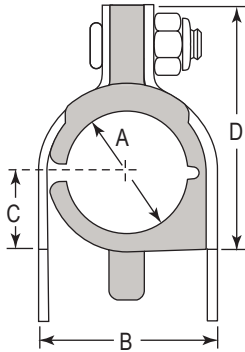
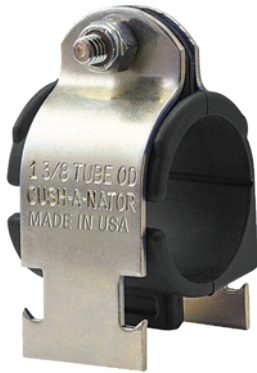


Thumb Drive



"Self-Alignment"

Cush-A-Nator® Standard (CN) has an operating range of -50°F to 275°F (-45°C to 135°C).

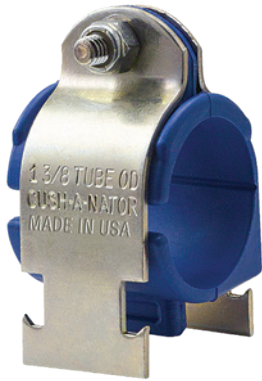


| Cush-A-Nator® Standard (CN)<br>Tube Part No. |          |          | O.D. Tube<br>Size | Dimensions (inches) |               |              |               |
|--|----------|----------|-------------------|---------------------|---------------|--------------|---------------|
| Steel  | SS304    | SS316    |                   | A                   | B             | C            | D             |
| CN04   | CN04SS   | CN04S6   | 1/4"              | 0.25" (6mm)         | 0.62" (16mm)  | 0.27" (7mm)  | 0.98" (25mm)  |
| CN06   | CN06SS   | CN06S6   | 3/8"              | 0.37" (9mm)         | 0.82" (21mm)  | 0.33" (8mm)  | 1.13" (29mm)  |
| CN08   | CN08SS   | CN08S6   | 1/2"              | 0.50" (13mm)        | 0.94" (24mm)  | 0.40" (10mm) | 1.34" (34mm)  |
| CN10   | CN10SS   | CN10S6   | 5/8"              | 0.62" (16mm)        | 1.06" (27mm)  | 0.46" (12mm) | 1.54" (39mm)  |
| CN12   | CN12SS   | CN12S6   | 3/4"              | 0.75" (19mm)        | 1.20" (30mm)  | 0.52" (13mm) | 1.68" (43mm)  |
| CN14   | CN14SS   | CN14S6   | 7/8"              | 0.87" (22mm)        | 1.31" (33mm)  | 0.58" (15mm) | 1.82" (46mm)  |
| CN16   | CN16SS   | CN16S6   | 1"                | 1.00" (25mm)        | 1.44" (37mm)  | 0.65" (17mm) | 1.95" (50mm)  |
| CN18   | CN18SS   | CN18S6   | 1 1/8"            | 1.12" (28mm)        | 1.57" (40mm)  | 0.70" (18mm) | 2.08" (53mm)  |
| CN20   | CN20SS   | CN20S6   | 1 1/4"            | 1.25" (32mm)        | 1.70" (43mm)  | 0.77" (20mm) | 2.21" (56mm)  |
| CN32M  | CN32MSS  | CN32MS6  | 32mm              | 32mm                | 1.51" (38mm)  | 0.76" (19mm) | 2.55" (65mm)  |
| CN22   | CN22SS   | CN22S6   | 1 3/8"            | 1.37" (35mm)        | 1.82" (46mm)  | 0.83" (21mm) | 2.34" (59mm)  |
| CN24   | CN24SS   | CN24S6   | 1 1/2"            | 1.50" (38mm)        | 1.95" (50mm)  | 0.90" (23mm) | 2.47" (63mm)  |
| CN26   | CN26SS   | CN26S6   | 1 5/8"            | 1.62" (41mm)        | 2.07" (53mm)  | 0.96" (24mm) | 2.60" (66mm)  |
| CN28   | CN28SS   | CN28S6   | 1 3/4"            | 1.75" (45mm)        | 2.20" (56mm)  | 1.02" (26mm) | 2.73" (69mm)  |
| CN30   | CN30SS   | CN30S6   | 1 7/8"            | 1.87" (48mm)        | 2.32" (59mm)  | 1.09" (28mm) | 2.86" (73mm)  |
| CN32   | CN32SS   | CN32S6   | 2"                | 2.00" (51mm)        | 2.45" (62mm)  | 1.15" (29mm) | 3.04" (77mm)  |
| CN34   | CN34SS   | CN34S6   | 2 1/8"            | 2.12" (54mm)        | 2.57" (65mm)  | 1.27" (32mm) | 3.23" (82mm)  |
| CN36   | CN36SS   | CN36S6   | 2 1/4"            | 2.25" (57mm)        | 2.82" (72mm)  | 1.41" (36mm) | 3.67" (93mm)  |
| CN38   | CN38SS   | CN38S6   | 2 3/8"            | 2.37" (60mm)        | 2.82" (72mm)  | 1.41" (36mm) | 3.67" (93mm)  |
| CN40   | CN40SS   | CN40S6   | 2 1/2"            | 2.50" (64mm)        | 2.94" (75mm)  | 1.46" (37mm) | 3.79" (96mm)  |
| CN42   | CN42SS   | CN42S6   | 2 5/8"            | 2.62" (66mm)        | 3.07" (78mm)  | 1.53" (39mm) | 3.92" (100mm) |
| CN46   | CN46SS   | CN46S6   | 2 7/8"            | 2.87" (73mm)        | 3.32" (84mm)  | 1.66" (42mm) | 4.17" (106mm) |
| CN75M  | CN75MSS  | CN75MS6  | 75mm              | 75mm                | 3.37" (86mm)  | 1.69" (43mm) | 4.68" (119mm) |
| CN48   | CN48SS   | CN48S6   | 3"                | 3.00" (76mm)        | 3.57" (91mm)  | 1.78" (45mm) | 4.42" (112mm) |
| CN50   | CN50SS   | CN50S6   | 3 1/8"            | 3.12" (79mm)        | 3.57" (91mm)  | 1.78" (45mm) | 4.42" (112mm) |
| CN56   | CN56SS   | CN56S6   | 3 1/2"            | 3.50" (89mm)        | 3.95" (100mm) | 1.97" (50mm) | 4.79" (122mm) |
| CN90M  | CN90MSS  | CN90MS6  | 90mm              | 90mm                | 3.86" (98mm)  | 1.94" (49mm) | 5.23" (133mm) |
| CN64   | CN64SS   | CN64S6   | 4"                | 4.00" (102mm)       | 4.45" (113mm) | 2.28" (58mm) | 5.11" (130mm) |
| CN66   | CN66SS   | CN66S6   | 4 1/8"            | 4.12" (105mm)       | 4.57" (116mm) | 2.34" (59mm) | 5.54" (141mm) |
| CN110M                                       | CN110MSS | CN110MS6 | 110mm             | 110mm               | 4.99" (127mm) | 2.81" (71mm) | 6.38" (162mm) |
| CN72   | CN72SS   | CN72S6   | 4 1/2"            | 4.50" (114mm)       | 4.95" (126mm) | 2.53" (64mm) | 5.92" (150mm) |
| CN125M                                       | CN125MSS | CN125MS6 | 125mm             | 125mm               | 5.61" (142mm) | 2.81" (71mm) | 7.00" (178mm) |
| CN96   | CN96SS   | CN96S6   | 6"                | 6.00" (152mm)       | 6.62" (168mm) | 3.31" (84mm) | 7.63" (194mm) |
| CN160M                                       | CN160MSS | CN160MS6 | 160mm             | 160mm               | 6.62" (168mm) | 3.31" (84mm) | 7.63" (194mm) |

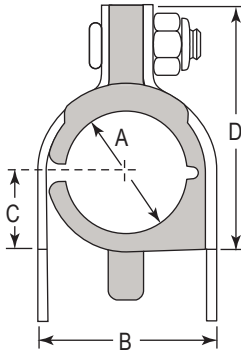
| Cush-A-Nator® Standard (CN)<br>Pipe Part No. |         |         | Pipe<br>Size | Dimensions (inches) |               |              |               |
|--|---------|---------|--------------|---------------------|---------------|--------------|---------------|
| Steel  | SS304   | SS316   |              | A                   | B             | C            | D             |
| CN14P  | CN14PSS | CN14PS6 | 1/2"         | 0.840" (21mm)       | 1.29" (33mm)  | 0.58" (15mm) | 1.82" (46mm)  |
| CN17P  | CN17PSS | CN17PS6 | 3/4"         | 1.050" (27mm)       | 1.57" (40mm)  | 0.70" (18mm) | 2.08" (53mm)  |
| CN21P  | CN21PSS | CN21PS6 | 1"           | 1.315" (33mm)       | 1.76" (45mm)  | 0.81" (21mm) | 2.34" (59mm)  |
| CN30P  | CN30PSS | CN30PS6 | 1 1/2"       | 1.900" (48mm)       | 2.32" (59mm)  | 1.09" (28mm) | 2.86" (73mm)  |
| CN38P  | CN38PSS | CN38PS6 | 2"           | 2.375" (60mm)       | 2.82" (72mm)  | 1.41" (36mm) | 3.67" (93mm)  |
| CN46P  | CN46PSS | CN46PS6 | 2 1/2"       | 2.875" (73mm)       | 3.32" (84mm)  | 1.66" (42mm) | 4.17" (106mm) |
| CN56P  | CN56PSS | CN56PS6 | 3"           | 3.500" (89mm)       | 3.95" (100mm) | 1.97" (50mm) | 4.79" (122mm) |
| CN64P  | CN64PSS | CN64PS6 | 3 1/2"       | 4.000" (102mm)      | 4.45" (113mm) | 2.28" (58mm) | 5.11" (130mm) |
| CN72P  | CN72PSS | CN72PS6 | 4"           | 4.500" (114mm)      | 4.95" (126mm) | 2.53" (64mm) | 5.92" (150mm) |

Contact Factory for Additional Sizes





Cush-A-Nator® High Temp (HT) has service temperatures of -65°F to 340°F (-53°C to 170°C).



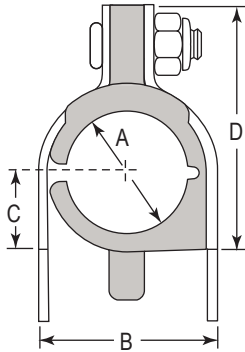
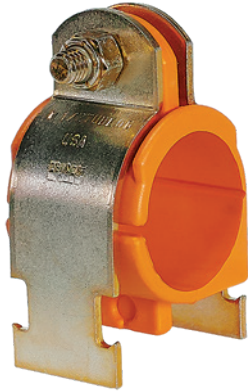
| Cush-A-Nator® High Temp (HT)<br>Tube Part No. |          |          | O.D.<br>Tube<br>Size | Dimensions (inches) |               |              |               |
|---|----------|----------|----------------------|---------------------|---------------|--------------|---------------|
| Steel   | SS304    | SS316    |                      | A                   | B             | C            | D             |
| HT04  | HT04SS   | HT04S6   | 1/4"                 | 0.25" (6mm)         | 0.62" (16mm)  | 0.27" (7mm)  | 0.98" (25mm)  |
| HT06  | HT06SS   | HT06S6   | 3/8"                 | 0.37" (9mm)         | 0.82" (21mm)  | 0.33" (8mm)  | 1.13" (29mm)  |
| HT08  | HT08SS   | HT08S6   | 1/2"                 | 0.50" (13mm)        | 0.94" (24mm)  | 0.40" (10mm) | 1.34" (34mm)  |
| HT10  | HT10SS   | HT10S6   | 5/8"                 | 0.62" (16mm)        | 1.06" (27mm)  | 0.46" (12mm) | 1.54" (39mm)  |
| HT12  | HT12SS   | HT12S6   | 3/4"                 | 0.75" (19mm)        | 1.20" (30mm)  | 0.52" (13mm) | 1.68" (43mm)  |
| HT14  | HT14SS   | HT14S6   | 7/8"                 | 0.87" (22mm)        | 1.31" (33mm)  | 0.58" (15mm) | 1.82" (46mm)  |
| HT16  | HT16SS   | HT16S6   | 1"                   | 1.00" (25mm)        | 1.44" (37mm)  | 0.65" (17mm) | 1.95" (50mm)  |
| HT18  | HT18SS   | HT18S6   | 1 1/8"               | 1.12" (28mm)        | 1.57" (40mm)  | 0.70" (18mm) | 2.08" (53mm)  |
| HT20  | HT20SS   | HT20S6   | 1 1/4"               | 1.25" (32mm)        | 1.70" (43mm)  | 0.77" (20mm) | 2.21" (56mm)  |
| HT32M   | HT32MSS  | HT32MS6  | 32mm                 | 32mm                | 1.51" (38mm)  | 0.76" (19mm) | 2.55" (65mm)  |
| HT22  | HT22SS   | HT22S6   | 1 3/8"               | 1.37" (35mm)        | 1.82" (46mm)  | 0.83" (21mm) | 2.34" (59mm)  |
| HT24  | HT24SS   | HT24S6   | 1 1/2"               | 1.50" (38mm)        | 1.95" (50mm)  | 0.90" (23mm) | 2.47" (63mm)  |
| HT26  | HT26SS   | HT26S6   | 1 5/8"               | 1.62" (41mm)        | 2.07" (53mm)  | 0.96" (24mm) | 2.60" (66mm)  |
| HT28  | HT28SS   | HT28S6   | 1 3/4"               | 1.75" (45mm)        | 2.20" (56mm)  | 1.02" (26mm) | 2.73" (69mm)  |
| HT30  | HT30SS   | HT30S6   | 1 7/8"               | 1.87" (48mm)        | 2.32" (59mm)  | 1.09" (28mm) | 2.86" (73mm)  |
| HT32  | HT32SS   | HT32S6   | 2"                   | 2.00" (51mm)        | 2.45" (62mm)  | 1.15" (29mm) | 3.04" (77mm)  |
| HT34  | HT34SS   | HT34S6   | 2 1/8"               | 2.12" (54mm)        | 2.57" (65mm)  | 1.27" (32mm) | 3.23" (82mm)  |
| HT36  | HT36SS   | HT36S6   | 2 1/4"               | 2.25" (57mm)        | 2.82" (72mm)  | 1.41" (36mm) | 3.67" (93mm)  |
| HT38  | HT38SS   | HT38S6   | 2 3/8"               | 2.37" (60mm)        | 2.82" (72mm)  | 1.41" (36mm) | 3.67" (93mm)  |
| HT40  | HT40SS   | HT40S6   | 2 1/2"               | 2.50" (64mm)        | 2.94" (75mm)  | 1.46" (37mm) | 3.79" (96mm)  |
| HT42  | HT42SS   | HT42S6   | 2 5/8"               | 2.62" (66mm)        | 3.07" (78mm)  | 1.53" (39mm) | 3.92" (100mm) |
| HT46  | HT46SS   | HT46S6   | 2 7/8"               | 2.87" (73mm)        | 3.32" (84mm)  | 1.66" (42mm) | 4.17" (106mm) |
| HT75M   | HT75MSS  | HT75MS6  | 75mm                 | 75mm                | 3.37" (86mm)  | 1.69" (43mm) | 4.68" (119mm) |
| HT48  | HT48SS   | HT48S6   | 3"                   | 3.00" (76mm)        | 3.57" (91mm)  | 1.78" (45mm) | 4.42" (112mm) |
| HT50  | HT50SS   | HT50S6   | 3 1/8"               | 3.12" (79mm)        | 3.57" (91mm)  | 1.78" (45mm) | 4.42" (112mm) |
| HT56  | HT56SS   | HT56S6   | 3 1/2"               | 3.50" (89mm)        | 3.95" (100mm) | 1.97" (50mm) | 4.79" (122mm) |
| HT90M   | HT90MSS  | HT90MS6  | 90mm                 | 90mm                | 3.86" (98mm)  | 1.94" (49mm) | 5.23" (133mm) |
| HT64  | HT64SS   | HT64S6   | 4"                   | 4.00" (102mm)       | 4.45" (113mm) | 2.28" (58mm) | 5.11" (130mm) |
| HT66  | HT66SS   | HT66S6   | 4 1/8"               | 4.12" (105mm)       | 4.57" (116mm) | 2.34" (59mm) | 5.54" (141mm) |
| HT110M  | HT110MSS | HT110MS6 | 110mm                | 110mm               | 4.99" (127mm) | 2.81" (71mm) | 6.38" (162mm) |
| HT72  | HT72SS   | HT72S6   | 4 1/2"               | 4.50" (114mm)       | 4.95" (126mm) | 2.53" (64mm) | 5.92" (150mm) |
| HT125M  | HT125MSS | HT125MS6 | 125mm                | 125mm               | 5.61" (142mm) | 2.81" (71mm) | 7.00" (178mm) |
| HT96  | HT96SS   | HT96S6   | 6"                   | 6.00" (152mm)       | 6.62" (168mm) | 3.31" (84mm) | 7.63" (194mm) |
| HT160M  | HT160MSS | HT160MS6 | 160mm                | 160mm               | 6.62" (168mm) | 3.31" (84mm) | 7.63" (194mm) |

| Cush-A-Nator® High Temp (HT)<br>Pipe Part No. |         |         | Pipe<br>Size | Dimensions (inches) |               |              |               |
|---|---------|---------|--------------|---------------------|---------------|--------------|---------------|
| Steel   | SS304   | SS316   |              | A                   | B             | C            | D             |
| HT14P   | HT14PSS | HT14PS6 | 1/2"         | 0.840" (21mm)       | 1.29" (33mm)  | 0.58" (15mm) | 1.82" (46mm)  |
| HT17P   | HT17PSS | HT17PS6 | 3/4"         | 1.050" (27mm)       | 1.57" (40mm)  | 0.70" (18mm) | 2.08" (53mm)  |
| HT21P   | HT21PSS | HT21PS6 | 1"           | 1.315" (33mm)       | 1.76" (45mm)  | 0.81" (21mm) | 2.34" (59mm)  |
| HT30P   | HT30PSS | HT30PS6 | 1 1/2"       | 1.900" (48mm)       | 2.32" (59mm)  | 1.09" (28mm) | 2.86" (73mm)  |
| HT38P   | HT38PSS | HT38PS6 | 2"           | 2.375" (60mm)       | 2.82" (72mm)  | 1.41" (36mm) | 3.67" (93mm)  |
| HT46P   | HT46PSS | HT46PS6 | 2 1/2"       | 2.875" (73mm)       | 3.32" (84mm)  | 1.66" (42mm) | 4.17" (106mm) |
| HT56P   | HT56PSS | HT56PS6 | 3"           | 3.500" (89mm)       | 3.95" (100mm) | 1.97" (50mm) | 4.79" (122mm) |
| HT64P   | HT64PSS | HT64PS6 | 3 1/2"       | 4.000" (102mm)      | 4.45" (113mm) | 2.28" (58mm) | 5.11" (130mm) |
| HT72P   | HT72PSS | HT72PS6 | 4"           | 4.500" (114mm)      | 4.95" (126mm) | 2.53" (64mm) | 5.92" (150mm) |

Contact Factory for Additional Sizes



Cush-A-Nator® High Intensity Temp (HIT) has service temperatures of -65°F to 400°F (-53°C to 204°C).



| Cush-A-Nator® High Intensity Temp (HIT) Tube Part No. |           |           | O.D. Tube Size | Dimensions (inches) |               |              |               |
|---|-----------|-----------|----------------|---------------------|---------------|--------------|---------------|
| Steel   | SS304     | SS316     |                | A                   | B             | C            | D             |
| HIT04   | HIT04SS   | HIT04S6   | ¼"             | 0.25" (6mm)         | 0.62" (16mm)  | 0.27" (7mm)  | 0.98" (25mm)  |
| HIT06   | HIT06SS   | HIT06S6   | ⅜"             | 0.37" (9mm)         | 0.82" (21mm)  | 0.33" (8mm)  | 1.13" (29mm)  |
| HIT08   | HIT08SS   | HIT08S6   | ½"             | 0.50" (13mm)        | 0.94" (24mm)  | 0.40" (10mm) | 1.34" (34mm)  |
| HIT10   | HIT10SS   | HIT10S6   | ⅝"             | 0.62" (16mm)        | 1.06" (27mm)  | 0.46" (12mm) | 1.54" (39mm)  |
| HIT12   | HIT12SS   | HIT12S6   | ¾"             | 0.75" (19mm)        | 1.20" (30mm)  | 0.52" (13mm) | 1.68" (43mm)  |
| HIT14   | HIT14SS   | HIT14S6   | ⅞"             | 0.87" (22mm)        | 1.31" (33mm)  | 0.58" (15mm) | 1.82" (46mm)  |
| HIT16   | HIT16SS   | HIT16S6   | 1"             | 1.00" (25mm)        | 1.44" (37mm)  | 0.65" (17mm) | 1.95" (50mm)  |
| HIT18   | HIT18SS   | HIT18S6   | 1⅛"            | 1.12" (28mm)        | 1.57" (40mm)  | 0.70" (18mm) | 2.08" (53mm)  |
| HIT20   | HIT20SS   | HIT20S6   | 1¼"            | 1.25" (32mm)        | 1.70" (43mm)  | 0.77" (20mm) | 2.21" (56mm)  |
| HIT32M  | HIT32MSS  | HIT32MS6  | 32mm           | 32mm                | 1.51" (38mm)  | 0.76" (19mm) | 2.55" (65mm)  |
| HIT22   | HIT22SS   | HIT22S6   | 1⅜"            | 1.37" (35mm)        | 1.82" (46mm)  | 0.83" (21mm) | 2.34" (59mm)  |
| HIT24   | HIT24SS   | HIT24S6   | 1½"            | 1.50" (38mm)        | 1.95" (50mm)  | 0.90" (23mm) | 2.47" (63mm)  |
| HIT26   | HIT26SS   | HIT26S6   | 1⅝"            | 1.62" (41mm)        | 2.07" (53mm)  | 0.96" (24mm) | 2.60" (66mm)  |
| HIT28   | HIT28SS   | HIT28S6   | 1¾"            | 1.75" (45mm)        | 2.20" (56mm)  | 1.02" (26mm) | 2.73" (69mm)  |
| HIT30   | HIT30SS   | HIT30S6   | 1⅞"            | 1.87" (48mm)        | 2.32" (59mm)  | 1.09" (28mm) | 2.86" (73mm)  |
| HIT32   | HIT32SS   | HIT32S6   | 2"             | 2.00" (51mm)        | 2.45" (62mm)  | 1.15" (29mm) | 3.04" (77mm)  |
| HIT34   | HIT34SS   | HIT34S6   | 2⅛"            | 2.12" (54mm)        | 2.57" (65mm)  | 1.27" (32mm) | 3.23" (82mm)  |
| HIT36   | HIT36SS   | HIT36S6   | 2¼"            | 2.25" (57mm)        | 2.82" (72mm)  | 1.41" (36mm) | 3.67" (93mm)  |
| HIT38   | HIT38SS   | HIT38S6   | 2⅜"            | 2.37" (60mm)        | 2.82" (72mm)  | 1.41" (36mm) | 3.67" (93mm)  |
| HIT40   | HIT40SS   | HIT40S6   | 2½"            | 2.50" (64mm)        | 2.94" (75mm)  | 1.46" (37mm) | 3.79" (96mm)  |
| HIT42   | HIT42SS   | HIT42S6   | 2⅝"            | 2.62" (66mm)        | 3.07" (78mm)  | 1.53" (39mm) | 3.92" (100mm) |
| HIT46   | HIT46SS   | HIT46S6   | 2⅞"            | 2.87" (73mm)        | 3.32" (84mm)  | 1.66" (42mm) | 4.17" (106mm) |
| HIT75M  | HIT75MSS  | HIT75MS6  | 75mm           | 75mm                | 3.37" (86mm)  | 1.69" (43mm) | 4.68" (119mm) |
| HIT48   | HIT48SS   | HIT48S6   | 3"             | 3.00" (76mm)        | 3.57" (91mm)  | 1.78" (45mm) | 4.42" (112mm) |
| HIT50   | HIT50SS   | HIT50S6   | 3⅛"            | 3.12" (79mm)        | 3.57" (91mm)  | 1.78" (45mm) | 4.42" (112mm) |
| HIT56   | HIT56SS   | HIT56S6   | 3½"            | 3.50" (89mm)        | 3.95" (100mm) | 1.97" (50mm) | 4.79" (122mm) |
| HIT90M  | HIT90MSS  | HIT90MS6  | 90mm           | 90mm                | 3.86" (98mm)  | 1.94" (49mm) | 5.23" (133mm) |
| HIT64   | HIT64SS   | HIT64S6   | 4"             | 4.00" (102mm)       | 4.45" (113mm) | 2.28" (58mm) | 5.11" (130mm) |
| HIT66   | HIT66SS   | HIT66S6   | 4⅛"            | 4.12" (105mm)       | 4.57" (116mm) | 2.34" (59mm) | 5.54" (141mm) |
| HIT110M   | HIT110MSS | HIT110MS6 | 110mm          | 110mm               | 4.99" (127mm) | 2.81" (71mm) | 6.38" (162mm) |
| HIT72   | HIT72SS   | HIT72S6   | 4½"            | 4.50" (114mm)       | 4.95" (126mm) | 2.53" (64mm) | 5.92" (150mm) |
| HIT125M   | HIT125MSS | HIT125MS6 | 125mm          | 125mm               | 5.61" (142mm) | 2.81" (71mm) | 7.00" (178mm) |
| HIT96   | HIT96SS   | HIT96S6   | 6"             | 6.00" (152mm)       | 6.62" (168mm) | 3.31" (84mm) | 7.63" (194mm) |
| HIT160M   | HIT160MSS | HIT160MS6 | 160mm          | 160mm               | 6.62" (168mm) | 3.31" (84mm) | 7.63" (194mm) |

| Cush-A-Nator® High Intensity Temp (HIT) Pipe Part No. |          |          | Pipe Size | Dimensions (inches) |               |              |               |
|---|----------|----------|-----------|---------------------|---------------|--------------|---------------|
| Steel   | SS304    | SS316    |           | A                   | B             | C            | D             |
| HIT14P  | HIT14PSS | HIT14PS6 | ½"        | 0.840" (21mm)       | 1.29" (33mm)  | 0.58" (15mm) | 1.82" (46mm)  |
| HIT17P  | HIT17PSS | HIT17PS6 | ¾"        | 1.050" (27mm)       | 1.57" (40mm)  | 0.70" (18mm) | 2.08" (53mm)  |
| HIT21P  | HIT21PSS | HIT21PS6 | 1"        | 1.315" (33mm)       | 1.76" (45mm)  | 0.81" (21mm) | 2.34" (59mm)  |
| HIT30P  | HIT30PSS | HIT30PS6 | 1½"       | 1.900" (48mm)       | 2.32" (59mm)  | 1.09" (28mm) | 2.86" (73mm)  |
| HIT38P  | HIT38PSS | HIT38PS6 | 2"        | 2.375" (60mm)       | 2.82" (72mm)  | 1.41" (36mm) | 3.67" (93mm)  |
| HIT46P  | HIT46PSS | HIT46PS6 | 2½"       | 2.875" (73mm)       | 3.32" (84mm)  | 1.66" (42mm) | 4.17" (106mm) |
| HIT56P  | HIT56PSS | HIT56PS6 | 3"        | 3.500" (89mm)       | 3.95" (100mm) | 1.97" (50mm) | 4.79" (122mm) |
| HIT64P  | HIT64PSS | HIT64PS6 | 3½"       | 4.000" (102mm)      | 4.45" (113mm) | 2.28" (58mm) | 5.11" (130mm) |
| HIT72P  | HIT72PSS | HIT72PS6 | 4"        | 4.500" (114mm)      | 4.95" (126mm) | 2.53" (64mm) | 5.92" (150mm) |

Contact Factory for Additional Sizes



Introduction  
Channel  
Channel Nuts & Hardware  
General Fittings  
Brackets  
Beam Clamps  
Pipe & Conduit Supports  
Electrical Fittings  
Spring Steel  
Concrete Inserts  
Roofing Supports  
Fiberglass System  
Technical Data



## Cush-A-Clamp®



Gold Electro-Galvanized Steel

Stainless Steel



The "Living Hinge" allows the cushion to be spread apart for quick, easy installation.

**CUSH-A-CLAMP** — Channel mounted clamping systems are ideal for multiple line runs, while absorbing shock and vibration, reducing unwanted noise, and preventing galvanic corrosion. Cush-A-Clamp fits any standard 1-5/8" (41mm) wide channel.

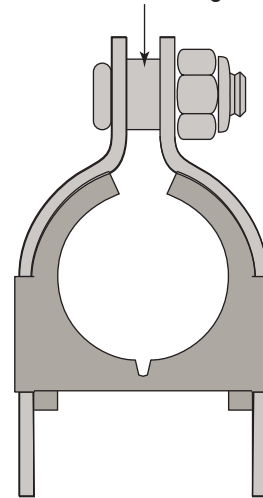
Assembly consisting of steel clamp with locknut and thermoplastic elastomer cushion. All parts are marked for easy identification and packaged for small lot or bulk use. When specified, Cush-A-Clamp assemblies up to 2" (51mm), are available individually packaged.

**THE CLAMP** — Features a unique shoulder stud which is securely fastened to one clamp half. Steel clamps for tube sizes up to 1-3/8" (35mm) have the "Controlled Squeeze™" design which eliminates over-tightening and rotation while a nylon-insert nut assures a positive lock. Clamps are available in steel (with electro-dichromate finish), and stainless steel type 304. (Contact factory for type 316).

**THE CUSHION** — Made from a thermoplastic elastomer, it's built tough to withstand the effects of most oils, chemicals and industrial cleaning compounds, in temperatures from -50°F to 275°F (-45°C to 135°C). Interlock edges and channel locator legs ensure that the cushion remains in place.

**INSTALLATION** — One man, one tool time savings. Retrofits can be added without disassembly. The "Living Hinge" allows the cushion to be spread apart for quick, easy installation on sizes from 1/4" through 1-3/4" (6mm - 45mm).

### Controlled Squeeze™ Shoulder Bolt Eliminates Over-Tightening



The controlled squeeze insures that the nut on the clamp is not over tightened which avoids damaging the pipe that is being installed.

| Loading Values Mounted in Standard 12 Gauge Channel |                 |                    |                 |              |              |
|---|-----------------|--------------------|-----------------|--------------|--------------|
| Nut   | Torque (in-lbs) | Products           | Pullout (lbs)   | Slip (lbs)   |              |
|   |                 |                    |                 | Along        | Through      |
| 1/4"  | 40 (4.5 N•m)    | 004T008 - 022T026  | 1,000 (4.5 kN)  | 100 (0.4 kN) | 100 (0.4 kN) |
| 5/16"   | 60 (6.8 N•m)    | 024T028 - 050N056  | 2,200 (9.8 kN)  | 200 (0.9 kN) | 200 (0.9 kN) |
| 3/8"  | 150 (16.9 N•m)  | 053N050 - 138NS146 | 3,600 (16.0 kN) | 600 (2.7 kN) | 350 (1.6 kN) |

Loads are the same for Stainless Steel Clamps (Example 024NS028)

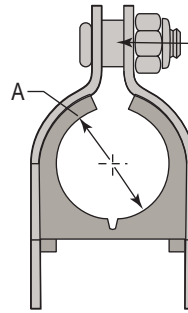




Gold Electro-Galvanized Steel



Stainless Steel



**Controlled Squeeze™**  
Eliminates Over-Tightening

Controlled Squeeze as shown in the drawing is included on smaller sizes of Cush-A-Clamp with "T" in the part number (e.g. 010T014).

| Part No.                          |                 | Dimension "A"            |                          |                |               |
|-----------------------------------|-----------------|--------------------------|--------------------------|----------------|---------------|
| Steel                             | Stainless Steel | *Copper and Steel Tubing | Copper Water Pipe (Nom.) | Nom. Pipe Size | A             |
| 004T008 - with Controlled Squeeze | 004NS008        | 1/4"                     | -                        | -              | 0.25" (6mm)   |
| 006T010 - with Controlled Squeeze | 006NS010        | 3/8"                     | 1/4"                     | -              | 0.37" (9mm)   |
| 008T012 - with Controlled Squeeze | 008NS012        | 1/2"                     | 3/8"                     | -              | 0.50" (13mm)  |
| 009N012                           | 009NS012        | -                        | -                        | 1/4"           | 0.54" (14mm)  |
| 010T014 - with Controlled Squeeze | 010NS014        | 5/8"                     | 1/2"                     | -              | 0.62" (16mm)  |
| 011N014                           | 011NS014        | -                        | -                        | 3/8"           | 0.67" (17mm)  |
| 012T016 - with Controlled Squeeze | 012NS016        | 3/4"                     | 5/8"                     | -              | 0.75" (19mm)  |
| 014N018                           | 014NS018        | -                        | -                        | 1/2"           | 0.84" (21mm)  |
| 014T018 - with Controlled Squeeze | 014NS018        | 7/8"                     | 3/4"                     | -              | 0.87" (22mm)  |
| 016T020 - with Controlled Squeeze | 016NS020        | 1"                       | -                        | -              | 1.00" (25mm)  |
| 017N022                           | 017NS022        | -                        | -                        | 3/4"           | 1.05" (27mm)  |
| 018T022 - with Controlled Squeeze | 018NS022        | 1-1/8"                   | 1"                       | -              | 1.12" (28mm)  |
| 020T024 - with Controlled Squeeze | 020NS024        | 1-1/4"                   | -                        | -              | 1.25" (32mm)  |
| 021N026                           | 021NS026        | -                        | -                        | 1"             | 1.31" (33mm)  |
| 022T026 - with Controlled Squeeze | 022NS026        | 1-3/8"                   | 1-1/4"                   | -              | 1.37" (35mm)  |
| 024N028                           | 024NS028        | 1-1/2"                   | -                        | -              | 1.50" (38mm)  |
| 026N030                           | 026NS030        | 1-5/8"                   | 1-1/2"                   | -              | 1.62" (41mm)  |
| 027N032                           | 027NS032        | -                        | -                        | 1-1/4"         | 1.66" (42mm)  |
| 028N032                           | 028NS032        | 1-3/4"                   | -                        | -              | 1.75" (44mm)  |
| 030N034                           | 030NS034        | 1-7/8"                   | -                        | 1-1/2"         | 1.90" (48mm)  |
| 032N036                           | 032NS036        | 2"                       | -                        | -              | 2.00" (51mm)  |
| 034N040                           | 034NS040        | 2-1/8"                   | 2"                       | -              | 2.12" (54mm)  |
| 038N042                           | 038NS042        | 2-1/4"                   | -                        | -              | 2.37" (60mm)  |
| 038N044                           | 038NS044        | 2-3/8"                   | -                        | 2"             | 2.37" (60mm)  |
| 040N046                           | 040NS046        | 2-1/2"                   | -                        | -              | 2.50" (64mm)  |
| 042N048                           | 042NS048        | 2-5/8"                   | 2-1/2"                   | -              | 2.62" (67mm)  |
| 046N052                           | 046NS052        | 2-7/8"                   | -                        | 2-1/2"         | 2.87" (73mm)  |
| 050N054                           | 050NS054        | 3"                       | -                        | -              | 3.00" (76mm)  |
| 050N056                           | 050NS056        | 3-1/8"                   | 3"                       | -              | 3.12" (79mm)  |
| 053N060                           | 053NS060        | 3-5/16"                  | -                        | -              | 3.31" (84mm)  |
| 056N062                           | 056NS062        | 3-1/2"                   | -                        | 3"             | 3.50" (89mm)  |
| 058N064                           | 058NS064        | 3-5/8"                   | 3-1/2"                   | -              | 3.62" (92mm)  |
| 064N072                           | 064NS072        | 4"                       | -                        | 3-1/2"         | 4.00" (102mm) |
| 066N074                           | 066NS074        | 4-1/8"                   | 4"                       | -              | 4.12" (105mm) |
| 069N076                           | 069NS076        | 4-5/16"                  | -                        | -              | 4.34" (110mm) |
| 072N080                           | 072NS080        | 4-1/2"                   | -                        | 4"             | 4.50" (114mm) |
| 082N090                           | 082NS090        | 5-1/8"                   | 5"                       | -              | 5.12" (130mm) |
| 089N096                           | 089NS096        | -                        | -                        | 5"             | 5.56" (141mm) |
| 096N106                           | 096NS106        | 6"                       | -                        | -              | 6.00" (152mm) |
| 098N106                           | 098NS106        | 6-1/8"                   | 6"                       | -              | 6.12" (155mm) |
| 106N114                           | 106NS114        | -                        | -                        | 6"             | 6.62" (168mm) |
| 138N146                           | 138NS146        | -                        | -                        | 8"             | 8.62" (219mm) |

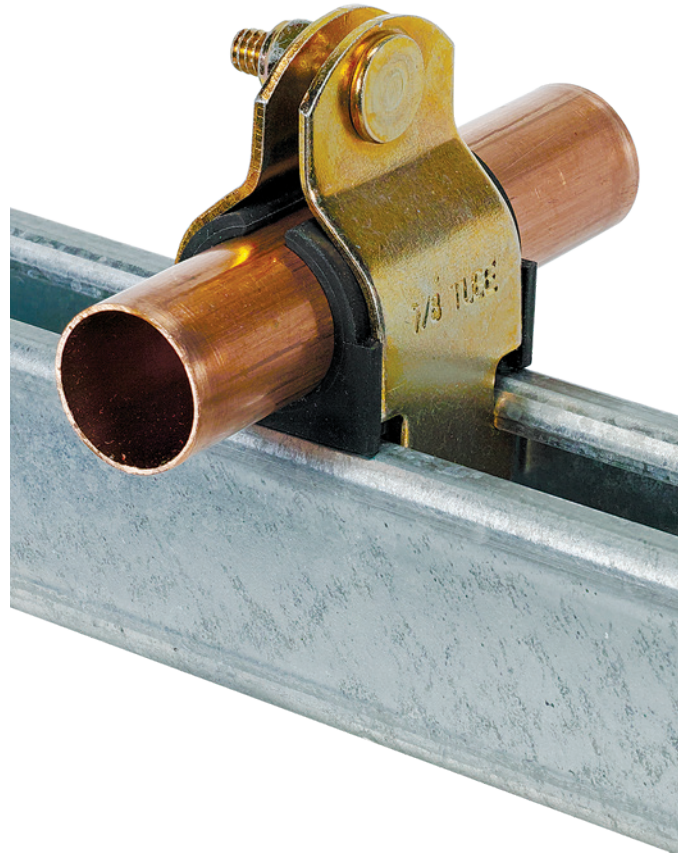
\*Tube O.D. is Cushion I.D. Design load deflection data available on request.



Introduction  
Channel  
Channel Nuts & Hardware  
General Fittings  
Brackets  
Beam Clamps  
Pipe & Conduit Supports  
Electrical Fittings  
Spring Steel  
Concrete Inserts  
Roofop Supports  
Fiberglass System  
Technical Data



- Made in USA, Meets - Buy America Act
- UL Classified 2043 (25/50) for use in plenums and air handling systems
- Specified MSS-SP 58 Type 60 and Type 61
- Clamps are 1008-1010 carbon steel
- Eliminate shock and vibration
- Studs are projection welded
- Nylon insert locknut
- Resist most fuels, oils, gases, greases, solvents, mineral acids and other harsh materials
- UV resistant
- Allow fluid conductors to be added or removed from installations without disturbing adjacent lines
- Assembled or disassembled with a single hand or power wrench for fast and simple installation
- Permit various size lines to be mixed to suit installation
- All metal components have a yellow Tri-Valent (non-hex) plating
- Also available in EG Clear, 304 SS, 316 SS and Aluminum
- Cushion material is a thermoplastic elastomer
- Temperature rating: -65°F to +275°F (-53.9°C to +135°C)



| Nominal Pipe Sizes |           |           |       |                        |        |
|--------------------|-----------|-----------|-------|------------------------|--------|
| Part No.           | Nom. Pipe | Hole Size | Width | Center to Top of Strut | Height |
| 200025             | 1/4"      | 0.540"    | 0.91" | 0.63"                  | 1.41"  |
| 200037             | 3/8"      | 0.675"    | 1.07" | 0.45"                  | 1.59"  |
| 200050             | 1/2"      | 0.840"    | 1.45" | 0.59"                  | 1.91"  |
| 200075             | 3/4"      | 1.050"    | 1.79" | 0.72"                  | 2.16"  |
| 200100             | 1"        | 1.315"    | 2.22" | 0.91"                  | 2.75"  |
| 200125             | 1-1/4"    | 1.660"    | 2.47" | 1.03"                  | 3.03"  |
| 200150             | 1-1/2"    | 1.900"    | 2.47" | 1.16"                  | 3.28"  |
| 200200             | 2"        | 2.375"    | 3.22" | 1.41"                  | 3.78"  |
| 200250             | 2-1/2"    | 2.875"    | 3.72" | 1.66"                  | 4.27"  |
| 200300             | 3"        | 3.500"    | 4.36" | 1.97"                  | 4.91"  |
| 200350             | 3-1/2"    | 4.000"    | 4.97" | 2.28"                  | 5.53"  |
| 200400             | 4"        | 4.500"    | 5.47" | 2.53"                  | 6.03"  |
| 200500             | 5"        | 5.563"    | 6.47" | 3.03"                  | 7.03"  |
| 200600             | 6"        | 6.625"    | 7.62" | 3.53"                  | 8.03"  |
| 200800             | 8"        | 8.625"    | 9.36" | 5.00"                  | 10.61" |

Additional sizes available on request.

| Metric Pipe Sizes |                   |       |                        |        |
|-------------------|-------------------|-------|------------------------|--------|
| Part No.          | Metric Pipe Sizes | Width | Center to Top of Strut | Height |
| 20MMHZ            | 20mm              | 1.33" | 0.53"                  | 1.78"  |
| 25MMHZ            | 25mm              | 1.66" | 0.66"                  | 2.03"  |
| 32MMHZ            | 32mm              | 1.92" | 0.78"                  | 2.30"  |
| 40MMHZ            | 40mm              | 2.22" | 0.91"                  | 2.75"  |
| 50MMHZ            | 50mm              | 2.72" | 1.16"                  | 3.28"  |
| 63MMHZ            | 63mm              | 3.47" | 1.53"                  | 4.03"  |
| 75MMHZ            | 75mm              | 3.97" | 1.78"                  | 4.52"  |
| 90MMHZ            | 90mm              | 4.36" | 1.97"                  | 4.91"  |
| 110MMHZ           | 110mm             | 5.30" | 2.44"                  | 5.76"  |
| 125MMHZ           | 125mm             | 6.15" | 2.71"                  | 6.55"  |
| 160MMHZ           | 160mm             | 7.70" | 3.41"                  | 7.95"  |

Additional sizes available on request.



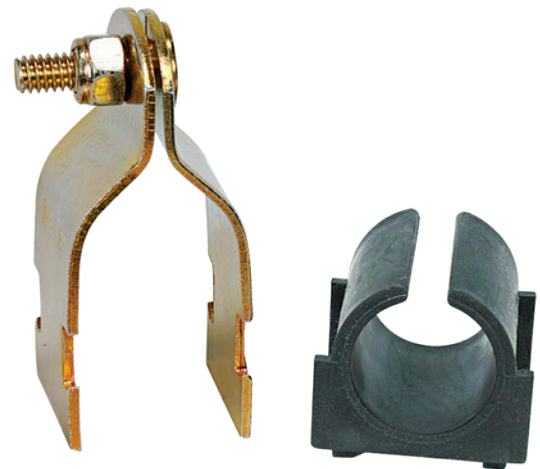
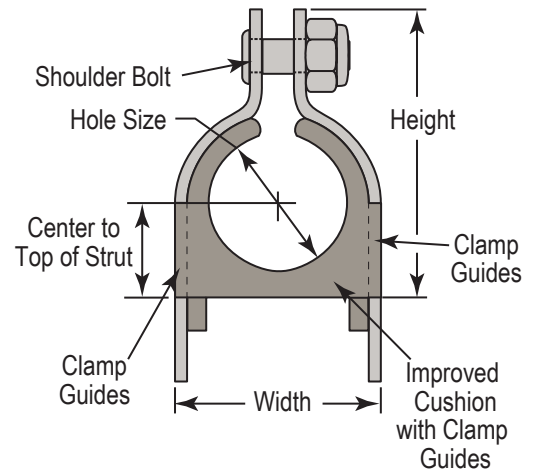
# Premier Cushioned Clamp

## Tubing Sizes



| Tubing O.D. Sizes |             |               |           |       |                        |        |
|-------------------|-------------|---------------|-----------|-------|------------------------|--------|
| Part No.          | Tubing O.D. | Copper (Nom.) | Hole Size | Width | Center to Top of Strut | Height |
| 100025            | 1/4"        | -             | 0.250"    | 0.62" | 0.22"                  | 1.11"  |
| 100031            | 5/16"       | -             | 0.313"    | 0.75" | 0.28"                  | 1.24"  |
| 100037            | 3/8"        | 1/4"          | 0.375"    | 0.75" | 0.28"                  | 1.24"  |
| 100047            | 0.47"       | -             | 0.470"    | 0.87" | 0.34"                  | 1.36"  |
| 100050            | 1/2"        | 3/8"          | 0.500"    | 0.87" | 0.34"                  | 1.36"  |
| 100062            | 5/8"        | 1/2"          | 0.625"    | 1.00" | 0.41"                  | 1.50"  |
| 100075            | 3/4"        | 5/8"          | 0.750"    | 1.33" | 0.53"                  | 1.78"  |
| 100087            | 7/8"        | 3/4"          | 0.870"    | 1.45" | 0.58"                  | 1.91"  |
| 100100            | 1"          | -             | 1.000"    | 1.66" | 0.66"                  | 2.03"  |
| 100112            | 1-1/8"      | 1"            | 1.125"    | 1.79" | 0.72"                  | 2.16"  |
| 100119            | 1.19"       | -             | 1.190"    | 1.92" | 0.72"                  | 2.30"  |
| 100125            | 1-1/4"      | -             | 1.250"    | 1.92" | 0.78"                  | 2.30"  |
| 100137            | 1-3/8"      | 1-1/4"        | 1.375"    | 2.22" | 0.91"                  | 2.75"  |
| 100150            | 1-1/2"      | -             | 1.500"    | 2.22" | 0.91"                  | 2.75"  |
| 100162            | 1-5/8"      | 1-1/2"        | 1.625"    | 2.47" | 1.03"                  | 3.03"  |
| 100175            | 1-3/4"      | -             | 1.750"    | 2.47" | 1.03"                  | 3.03"  |
| 100187            | 1-7/8"      | -             | 1.900"    | 2.47" | 1.16"                  | 3.28"  |
| 100200            | 2"          | -             | 2.000"    | 2.72" | 1.16"                  | 3.28"  |
| 100212            | 2-1/8"      | 2"            | 2.125"    | 2.97" | 1.28"                  | 3.53"  |
| 100225            | 2-1/4"      | -             | 2.370"    | 3.22" | 1.41"                  | 3.78"  |
| 100237            | 2-3/8"      | -             | 2.370"    | 3.22" | 1.41"                  | 3.78"  |
| 100251            | 2-1/2"      | -             | 2.500"    | 3.47" | 1.53"                  | 4.03"  |
| 100262            | 2-5/8"      | 2-1/2"        | 2.625"    | 3.47" | 1.53"                  | 4.03"  |
| 100287            | 2-7/8"      | -             | 2.870"    | 3.73" | 1.65"                  | 4.28"  |
| 100300            | 3"          | -             | 3.000"    | 3.97" | 1.78"                  | 4.52"  |
| 100312            | 3-1/8"      | 3"            | 3.125"    | 3.97" | 1.78"                  | 4.52"  |
| 100337            | 3-3/8"      | -             | 3.375"    | 4.09" | 1.89"                  | 4.84"  |
| 100362            | 3-5/8"      | 3-1/2"        | 3.625"    | 4.47" | 2.03"                  | 5.03"  |
| 100400            | 4"          | -             | 4.000"    | 4.80" | 2.28"                  | 5.50"  |
| 100412            | 4-1/8"      | 4"            | 4.125"    | 5.09" | 2.34"                  | 5.66"  |
| 100425            | 4-1/4"      | -             | 4.250"    | 5.21" | 2.40"                  | 5.76"  |
| 100431            | 4-5/16"     | -             | 4.340"    | 5.27" | 2.44"                  | 5.85"  |
| 100437            | 4-3/8"      | -             | 4.375"    | 5.33" | 2.47"                  | 5.92"  |
| 100462            | 4-5/8"      | -             | 4.625"    | 5.59" | 2.60"                  | 6.17"  |
| 100492            | 4.92"       | -             | 4.920"    | 5.88" | 2.74"                  | 6.46"  |
| 100500            | 5"          | -             | 5.000"    | 6.25" | 2.81"                  | 6.75"  |
| 100512            | 5-1/8"      | 5"            | 5.125"    | 6.25" | 2.81"                  | 6.75"  |
| 100600            | 6"          | -             | 6.000"    | 7.50" | 3.31"                  | 7.75"  |
| 100612            | 6-1/8"      | 6"            | 6.125"    | 7.50" | 3.31"                  | 7.75"  |
| 100631            | 6-5/16"     | -             | 6.313"    | 7.71" | 3.44"                  | 8.06"  |
| 100637            | 6-3/8"      | -             | 6.375"    | 7.77" | 3.47"                  | 8.12"  |
| 100650            | 6-1/2"      | -             | 6.500"    | 7.90" | 3.53"                  | 8.25"  |

Additional sizes available on request.



Introduction

Channel

Channel Nuts & Hardware

General Fittings

Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

Concrete Inserts

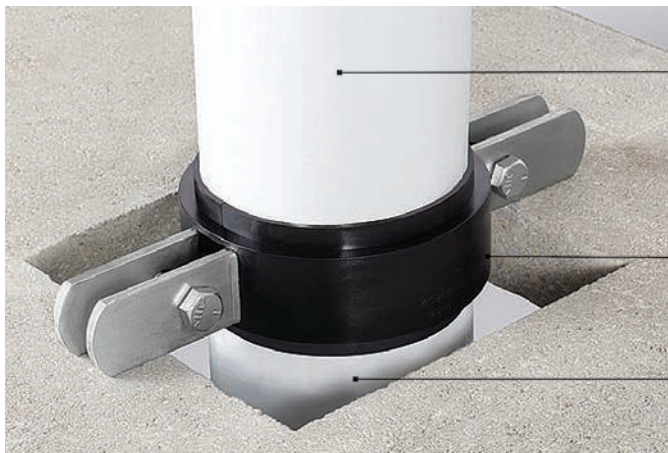
Rooftop Supports

Fiberglass System

Technical Data

## TITAN<sup>®</sup> Insulation Riser Clamp Series

The patented Titan riser is made to fit insulated pipe and create a clean vapor barrier on vertical pipe runs. Klo-Shure Titan riser will dramatically improve the fit and finish of insulated tube and pipe runs.

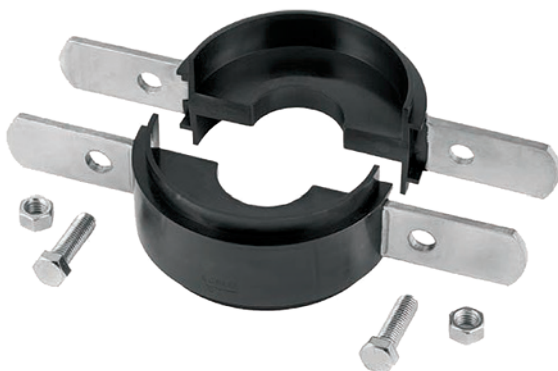
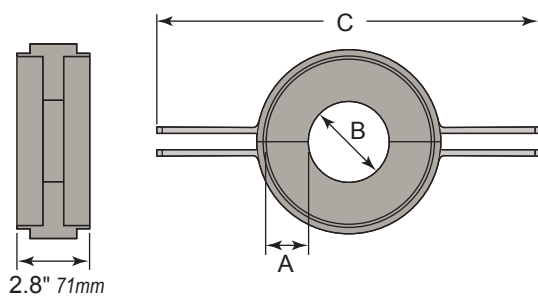


- Made in USA, Meets - Buy America Act
- Superior vapor barrier
- Three times faster installation of insulation
- Crush resistant design
- Dramatically improved finished appearance of insulated tube & pipe runs
- Eliminates insulation compression
- Available for 7/8" to 4-1/8" (22mm to 105mm) OD tube
- Insulation wall thickness from 1" to 1-1/2" (25mm to 38mm)
- Molded with high strength TPO plastic

Upper floor insulation from above.

Riser clamp assembly secures and supports the weight of pipe or tubing.

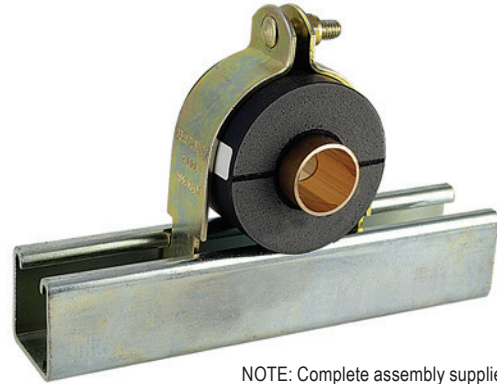
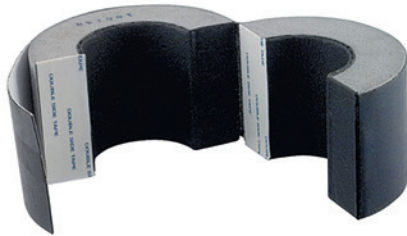
Pipe or tubing and insulation through floor.



| Part No. | Dimensions (in)  |                |                 |                 |
|----------|------------------|----------------|-----------------|-----------------|
|          | A Wall Thickness | B OD Size      | C               | Load Data Lbs   |
| R087100  | 1" (25mm)        | 7/8" (22mm)    | 10-1/4" (260mm) | 75 (0.33 kN)    |
| R112100  |                  | 1-1/8" (29mm)  | 10-7/8" (276mm) | 120 (0.53 kN)   |
| R137100  |                  | 1-3/8" (35mm)  | 11-1/2" (292mm) | 150 (0.67 kN)   |
| R162100  |                  | 1-5/8" (41mm)  | 11-1/2" (292mm) | 150 (0.67 kN)   |
| R212100  |                  | 2-1/8" (54mm)  | 11-1/2" (292mm) | 190 (0.85 kN)   |
| R262100  |                  | 2-5/8" (67mm)  | 12-1/2" (318mm) | 300 (1.34 kN)   |
| R312100  |                  | 3-1/8" (79mm)  | 12-1/2" (318mm) | 300 (1.34 kN)   |
| R412100  |                  | 4-1/8" (105mm) | 13.8" (351mm)   | 320 (1.42 kN)   |
| R087150  |                  | 1-1/2" (38mm)  | 7/8" (22mm)     | 10-7/8" (276mm) |
| R112150  | 1-1/8" (29mm)    |                | 10-7/8" (276mm) | 120 (0.67 kN)   |
| R137150  | 1-3/8" (35mm)    |                | 11-1/2" (292mm) | 150 (0.67 kN)   |
| R162150  | 1-5/8" (41mm)    |                | 11-1/2" (292mm) | 150 (0.67 kN)   |
| R212150  | 2-1/8" (54mm)    |                | 12" (305mm)     | 150 (0.67 kN)   |
| R262150  | 2-5/8" (67mm)    |                | 12" (305mm)     | 300 (1.34 kN)   |
| R312150  | 3-1/8" (79mm)    |                | 13" (330mm)     | 300 (1.34 kN)   |
| R412150  | 4-1/8" (105mm)   |                | 15-5/8" (397mm) | 300 (1.34 kN)   |



## Airtight Crush-Resistant Insulation Clamp



NOTE: Complete assembly supplied with gold electro-galvanized channel clamp and hardware

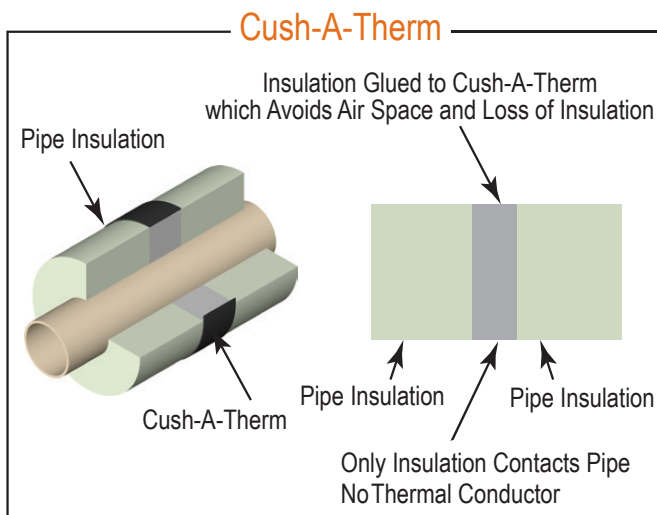
**Cush-A-Therm Clamp** is a perfect crush-resistant airtight seal for chilled refrigeration or mechanical pipe lines that require continuous insulation.

The rigid foam construction has an insulating tape inner lining which supports tube and absorbs vibration of operating pipe lines.

The outer cover consists of a special rubber coating which seals the cushion after installation in order to prevent condensation.

It's strong closed-cell structure is ideal for liquid cooling lines to prevent condensation, save energy, and maintain the vapor barrier.

- Temperature range: -70°F to +250°F (-56.7°C to +121°C)
- Flammability is Self-Extinguishing as tested under ASTM D 635
- Maintains thermal barrier protection
- Tested in Conformance with ASTM E84 (UL 723, NFPA 255) having results of 0 FSI (Flame Spread Index) and 50 SDI (Smoke Developed Index)
- Prevents condensation
- Properly supports pipe and tube
- Absorbs vibration
- Polyurethane foam laminated with a rubber lining



### ASHRAE Insulation Recommendations

Cush-A-Therm is designed to meet the ASHRAE recommendations for insulation for mechanical systems which indicate that insulated pipe hangers should provide the following:

1. Complete sealing of pipe against water vapor ingress
2. No energy transfer of cold to supporting clamp to prevent condensation of water and possible growth of mold. If the support encasing the insulation is in contact with the pipe or tube and supported by a metallic clamp, which is not protected by insulation, below ambient temperatures will be transferred to the clamp causing energy transfer and condensation.
3. No interruption of the insulation envelope
4. Limit or avoid compression at support location

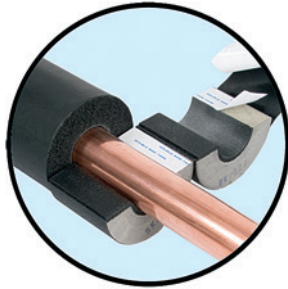
ASHRAE Section 23.13-23.14 further states "when the goal is avoiding compression of low-compressive-strength insulation products, it is recommended to use high-strength insulation inserts made of a product that offers the desired compressive strength and other necessary performance properties. Other higher-strength materials that are not thermal insulation material and interrupt the insulation envelope, or do not allow complete sealing of an insulation system against water vapor ingress are not recommended for supporting insulated piping on pipe hangers. Note that wood blocks have poor thermal conductivity and are not recommended, especially for cold pipe systems."

Insulated cold piping should receive special attention when exposed to ambient or unconditioned air. The Cush-A-Therm is a product that seals out air, and insulates the pipe/tube from the supporting clamp, and is therefore in compliance with the 2013 ASHRAE insulation recommendations.

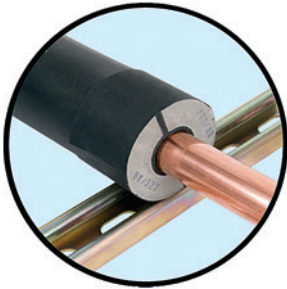




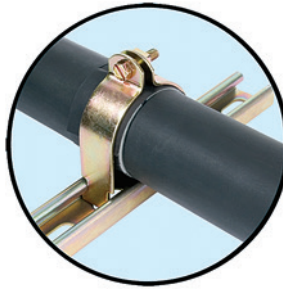
## INSTALLATION IS AS EASY AS 1-2-3!



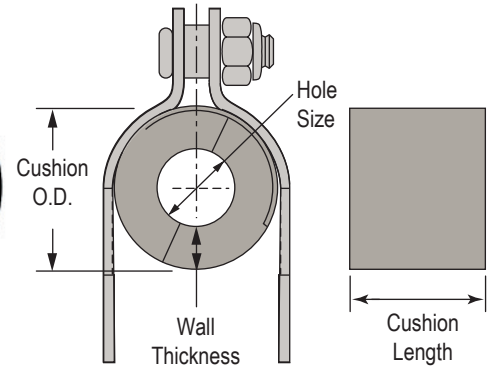
1. Insulation slides over pipes. Self adhesive surfaces provide seal.



2. Put in place and glue to insulation.



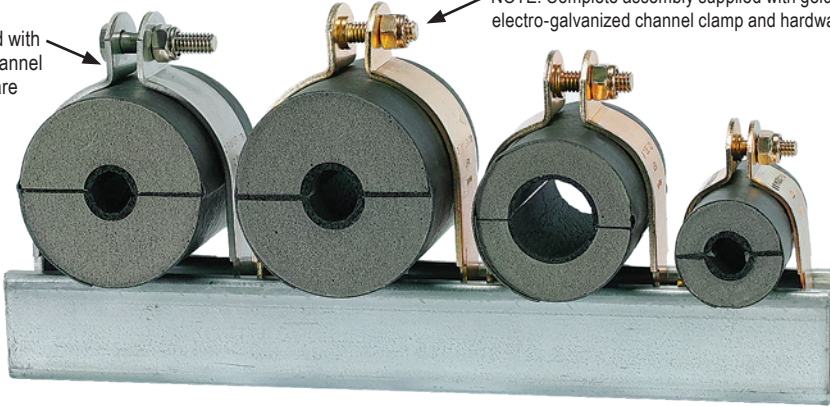
3. Wrap and seal with ProTape.



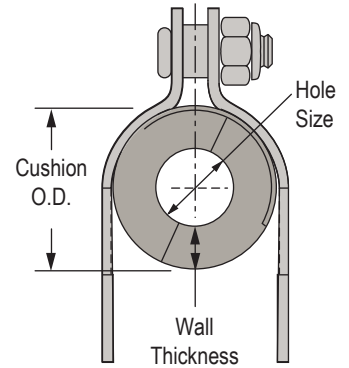
| Dimensions (Inches) |             |           |        |                | Nominal 1/2" (13mm) Wall Thickness |           |           | Nominal 3/4" (19mm) Wall Thickness |          |           |           |                         |
|---------------------|-------------|-----------|--------|----------------|------------------------------------|-----------|-----------|------------------------------------|----------|-----------|-----------|-------------------------|
| Hole Size           | Copper I.D. | Pipe O.D. | IPS    | Cushion Length | Part No.                           |           |           | Cushion O.D.                       | Part No. |           |           | Cushion O.D.            |
|                     |             |           |        |                | Steel                              | SS 304    | SS 316    |                                    | Steel    | SS 304    | SS 316    |                         |
| 1/4" (6mm)          | -           | 1/4"      | -      | 2.953" (75mm)  | UX1412                             | UX1412SS  | UX1412S6  | 1/4" (1.250") (32mm)               | UX1434   | UX1434SS  | UX1434S6  | 1 3/4" (1.750") (45mm)  |
| 3/8" (10mm)         | 1/4"        | 3/8"      | -      |                | UX3812                             | UX3812SS  | UX3812S6  | 1 3/8" (1.375") (35mm)             | UX3834   | UX3834SS  | UX3834S6  | 1 7/8" (1.875") (48mm)  |
| 1/2" (13mm)         | 3/8"        | 1/2"      | 1/4"   |                | UX1212                             | UX1212SS  | UX1212S6  | 1 1/2" (1.500") (38mm)             | UX1234   | UX1234SS  | UX1234S6  | 2" (2.000") (51mm)      |
| 5/8" (16mm)         | 1/2"        | 5/8"      | 3/8"   | 2.953" (75mm)  | UX5812                             | UX5812SS  | UX5812S6  | 1 5/8" (1.625") (41mm)             | UX5834   | UX5834SS  | UX5834S6  | 2 1/8" (2.125") (54mm)  |
| 3/4" (19mm)         | 5/8"        | 3/4"      | -      |                | UX3412                             | UX3412SS  | UX3412S6  | 1 3/4" (1.750") (45mm)             | UX3434   | UX3434SS  | UX3434S6  | 2 1/4" (2.250") (57mm)  |
| 7/8" (22mm)         | 3/4"        | 7/8"      | 1/2"   |                | UX7812                             | UX7812SS  | UX7812S6  | 1 7/8" (1.875") (48mm)             | UX7834   | UX7834SS  | UX7834S6  | 2 3/8" (2.375") (60mm)  |
| 1-1/8" (29mm)       | 1"          | 1 1/8"    | 3/4"   | 2.953" (75mm)  | UX11812                            | UX11812SS | UX11812S6 | 2 1/8" (2.125") (54mm)             | UX11834  | UX11834SS | UX11834S6 | 2 5/8" (2.625") (67mm)  |
| 1-3/8" (35mm)       | 1 1/4"      | 1 3/8"    | 1"     |                | UX13812                            | UX13812SS | UX13812S6 | 2 3/8" (2.375") (60mm)             | UX13834  | UX13834SS | UX13834S6 | 2 7/8" (2.875") (73mm)  |
| 1-5/8" (41mm)       | 1 1/2"      | 1 5/8"    | 1 1/4" |                | UX15812                            | UX15812SS | UX15812S6 | 2 5/8" (2.625") (67mm)             | UX15834  | UX15834SS | UX15834S6 | 3 1/8" (3.125") (79mm)  |
| 1-7/8" (48mm)       | -           | 1 7/8"    | -      | 2.953" (75mm)  | UX17812                            | UX17812SS | UX17812S6 | 2 7/8" (2.875") (73mm)             | UX17834  | UX17834SS | UX17834S6 | 3 3/8" (3.375") (86mm)  |
| 2-1/8" (54mm)       | 2"          | 2 1/8"    | -      |                | UX21812                            | UX21812SS | UX21812S6 | 3 1/8" (3.125") (79mm)             | UX21834  | UX21834SS | UX21834S6 | 3 5/8" (3.625") (92mm)  |
| 2-3/8" (60mm)       | 2 1/4"      | 2 3/8"    | 2"     |                | UX23812                            | UX23812SS | UX23812S6 | 3 3/8" (3.375") (86mm)             | UX23834  | UX23834SS | UX23834S6 | 3 7/8" (3.875") (98mm)  |
| 2-5/8" (67mm)       | 2 1/2"      | 2 5/8"    | -      | 3.937" (100mm) | UX25812                            | UX25812SS | UX25812S6 | 3 5/8" (3.625") (92mm)             | UX25834  | UX25834SS | UX25834S6 | 4 1/8" (4.125") (105mm) |
| 2-7/8" (73mm)       | -           | 2 7/8"    | 2 1/2" |                | UX27812                            | UX27812SS | UX27812S6 | 3 7/8" (3.875") (98mm)             | UX27834  | UX27834SS | UX27834S6 | 4 3/8" (4.375") (111mm) |
| 3-1/8" (79mm)       | 3"          | 3 1/8"    | -      |                | UX31812                            | UX31812SS | UX31812S6 | 4 1/8" (4.125") (105mm)            | UX31834  | UX31834SS | UX31834S6 | 4 5/8" (4.625") (118mm) |
| 3-1/2" (89mm)       | -           | 3 1/2"    | 3"     | 3.937" (100mm) | UX31212                            | UX31212SS | UX31212S6 | 4 1/2" (4.500") (114mm)            | UX31234  | UX31234SS | UX31234S6 | 5" (5.000") (127mm)     |
| 3-5/8" (92mm)       | 3 1/2"      | 3 5/8"    | -      |                | UX35812                            | UX35812SS | UX35812S6 | 4 5/8" (4.625") (118mm)            | UX35834  | UX35834SS | UX35834S6 | 5 1/8" (5.125") (130mm) |
| 4-1/8" (105mm)      | 4"          | 4-1/8"    | 3 1/2" |                | UX41812                            | UX41812SS | UX41812S6 | 5 1/8" (5.125") (130mm)            | UX41834  | UX41834SS | UX41834S6 | 5 5/8" (5.625") (143mm) |



NOTE: Complete assembly supplied with Stainless Steel channel clamp and hardware



NOTE: Complete assembly supplied with gold electro-galvanized channel clamp and hardware



| Hole Size      | Nominal 1" (25mm) Wall Thickness |           |           |                         | Nominal 1-1/2" (38mm) Wall Thickness |           |           |                         | Nominal 2" (51mm) Wall Thickness |           |           |                         |
|----------------|----------------------------------|-----------|-----------|-------------------------|--------------------------------------|-----------|-----------|-------------------------|----------------------------------|-----------|-----------|-------------------------|
|                | Part No.                         |           |           | Cushion O.D.            | Part No.                             |           |           | Cushion O.D.            | Part No.                         |           |           | Cushion O.D.            |
|                | Steel                            | SS 304    | SS 316    |                         | Steel                                | SS 304    | SS 316    |                         | Steel                            | SS 304    | SS 316    |                         |
| 1/4" (6mm)     | UX1410                           | UX1410SS  | UX1410S6  | 2 1/4" (2.250") (57mm)  | UX1415                               | UX1415SS  | UX1415S6  | 3 1/4" (3.250") (83mm)  | -                                | -         | -         | -                       |
| 3/8" (10mm)    | UX3810                           | UX3810SS  | UX3810S6  | 2 3/8" (2.375") (60mm)  | UX3815                               | UX3815SS  | UX3815S6  | 3 3/8" (3.375") (86mm)  | -                                | -         | -         | -                       |
| 1/2" (13mm)    | UX1210                           | UX1210SS  | UX1210S6  | 2 1/2" (2.500") (64mm)  | UX1215                               | UX1215SS  | UX1215S6  | 3 1/2" (3.500") (89mm)  | -                                | -         | -         | -                       |
| 5/8" (16mm)    | UX5810                           | UX5810SS  | UX5810S6  | 2 5/8" (2.625") (67mm)  | UX5815                               | UX5815SS  | UX5815S6  | 3 5/8" (3.625") (92mm)  | UX5820                           | UX5820SS  | UX5820S6  | 4 5/8" (4.625") (118mm) |
| 3/4" (19mm)    | UX3410                           | UX3410SS  | UX3410S6  | 2 3/4" (2.750") (70mm)  | UX3415                               | UX3415SS  | UX3415S6  | 3 3/4" (3.750") (95mm)  | UX3420                           | UX3420SS  | UX3420S6  | 4 3/4" (4.750") (121mm) |
| 7/8" (22mm)    | UX7810                           | UX7810SS  | UX7810S6  | 2 7/8" (2.875") (73mm)  | UX7815                               | UX7815SS  | UX7815S6  | 3 7/8" (3.875") (98mm)  | UX7820                           | UX7820SS  | UX7820S6  | 4 7/8" (4.875") (124mm) |
| 1-1/8" (29mm)  | UX11810                          | UX11810SS | UX11810S6 | 3 1/8" (3.125") (79mm)  | UX11815                              | UX11815SS | UX11815S6 | 4 1/8" (4.125") (105mm) | UX11820                          | UX11820SS | UX11820S6 | 5 1/8" (5.125") (130mm) |
| 1-3/8" (35mm)  | UX13810                          | UX13810SS | UX13810S6 | 3 3/8" (3.375") (86mm)  | UX13815                              | UX13815SS | UX13815S6 | 4 3/8" (4.375") (111mm) | UX13820                          | UX13820SS | UX13820S6 | 5 3/8" (5.375") (137mm) |
| 1-5/8" (41mm)  | UX15810                          | UX15810SS | UX15810S6 | 3 5/8" (3.625") (92mm)  | UX15815                              | UX15815SS | UX15815S6 | 4 5/8" (4.625") (118mm) | UX15820                          | UX15820SS | UX15820S6 | 5 5/8" (5.625") (143mm) |
| 1-7/8" (48mm)  | UX17810                          | UX17810SS | UX17810S6 | 3 7/8" (3.875") (98mm)  | UX17815                              | UX17815SS | UX17815S6 | 4 7/8" (4.875") (124mm) | UX17820                          | UX17820SS | UX17820S6 | 5 7/8" (5.875") (149mm) |
| 2-1/8" (54mm)  | UX21810                          | UX21810SS | UX21810S6 | 4 1/8" (4.125") (105mm) | UX21815                              | UX21815SS | UX21815S6 | 5 1/8" (5.125") (130mm) | UX21820                          | UX21820SS | UX21820S6 | 6 1/8" (6.125") (156mm) |
| 2-3/8" (60mm)  | UX23810                          | UX23810SS | UX23810S6 | 4 3/8" (4.375") (111mm) | UX23815                              | UX23815SS | UX23815S6 | 5 3/8" (5.375") (137mm) | UX23820                          | UX23820SS | UX23820S6 | 6 3/8" (6.375") (162mm) |
| 2-5/8" (67mm)  | UX25810                          | UX25810SS | UX25810S6 | 4 5/8" (4.625") (118mm) | UX25815                              | UX25815SS | UX25815S6 | 5 5/8" (5.625") (143mm) | UX25820                          | UX25820SS | UX25820S6 | 6 5/8" (6.625") (168mm) |
| 2-7/8" (73mm)  | UX27810                          | UX27810SS | UX27810S6 | 4 7/8" (4.875") (124mm) | UX27815                              | UX27815SS | UX27815S6 | 5 7/8" (5.875") (149mm) | UX27820                          | UX27820SS | UX27820S6 | 6 7/8" (6.875") (175mm) |
| 3-1/8" (79mm)  | UX31810                          | UX31810SS | UX31810S6 | 5 1/8" (5.125") (130mm) | UX31815                              | UX31815SS | UX31815S6 | 6 1/8" (6.125") (156mm) | UX31820                          | UX31820SS | UX31820S6 | 7 1/8" (7.125") (181mm) |
| 3-1/2" (89mm)  | UX31210                          | UX31210SS | UX31210S6 | 5 1/2" (5.500") (140mm) | UX31215                              | UX31215SS | UX31215S6 | 6 1/2" (6.500") (165mm) | UX31220                          | UX31220SS | UX31220S6 | 7 1/2" (7.500") (191mm) |
| 3-5/8" (92mm)  | UX35810                          | UX35810SS | UX35810S6 | 5 5/8" (5.625") (143mm) | UX35815                              | UX35815SS | UX35815S6 | 6 5/8" (6.625") (168mm) | UX35820                          | UX35820SS | UX35820S6 | 7 5/8" (7.625") (194mm) |
| 4-1/8" (105mm) | UX41810                          | UX41810SS | UX41810S6 | 6 1/8" (6.125") (156mm) | UX41815                              | UX41815SS | UX41815S6 | 7 1/8" (7.125") (181mm) | UX41820                          | UX41820SS | UX41820S6 | 8 1/8" (8.125") (206mm) |





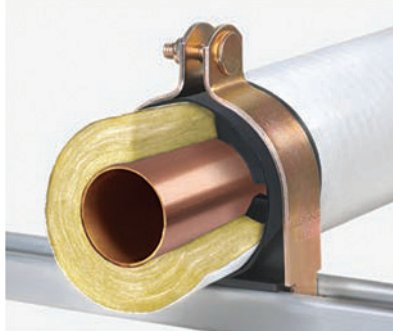
Patented Klo-Shure® Insulation Couplings allow sections of closed-cell, elastomeric or fiberglass insulation to be secured, eliminating most secondary operations at suspension points. It can also be used to simply join and secure two lengths of insulation.

## 7-Series Strut Mount

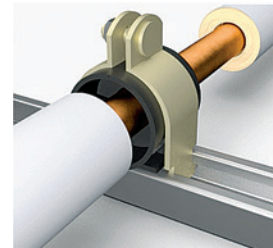
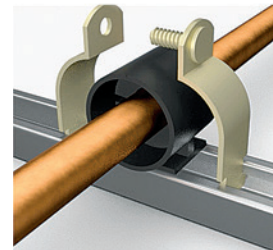
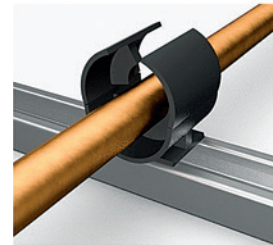
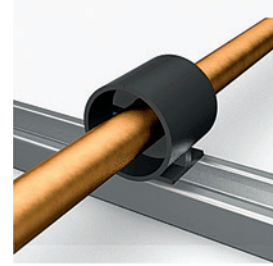


**For elastomeric insulation.** Supports and secures tubing in strut mounted applications.

## 9-Series Strut Mount



**For fiberglass insulation,** available in copper tube, iron pipe and mm sizing.



### Features:

- All insulated copper tube and iron pipe lines are to be secured using can be insulated and secured
- Insulation is inserted inside coupling until it contacts internal wall
- Secondary operations (glue + tape) can be performed at installer's discretion
- Entire assembly can be assembled or disassembled with a single hand or power wrench
- Keep conductor runs as straight as possible.
- Overwrap of Klo-Shure coupling with insulation is not required
- Acceptable for horizontal and vertical installations



### Specification Data & Guidelines:

- Made in USA
- UL Classified 2043 (25/50) for use in plenums and air handling systems
- Specified MSS-SP 58 Type 60 and Type 61
- Manufactured from high strength TPO plastic
- Superior vapor barrier
- Three times faster installation of closed-cell elastomeric and fiberglass insulation
- Dramatically improved finished appearance of insulated tubing
- UV resistant
- Eliminates insulation compression at suspension points
- Available with strut mounted clamps and clevis hangers
  - OD tube from 1/4" to 4-1/8"
  - Nominal pipe 1/2" to 3"
  - Metric sizes 25mm –110mm
- All metal components have a yellow Trivalent (non-hex) plating

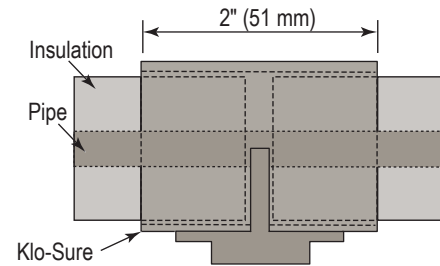
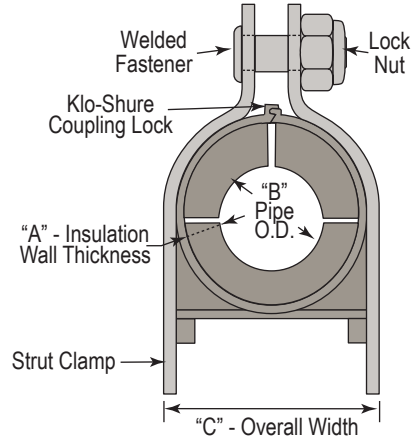


# Klo-Shure® Insulation Couplings

## 7-Series for Elastomeric Insulation



7-Series Strut Mount



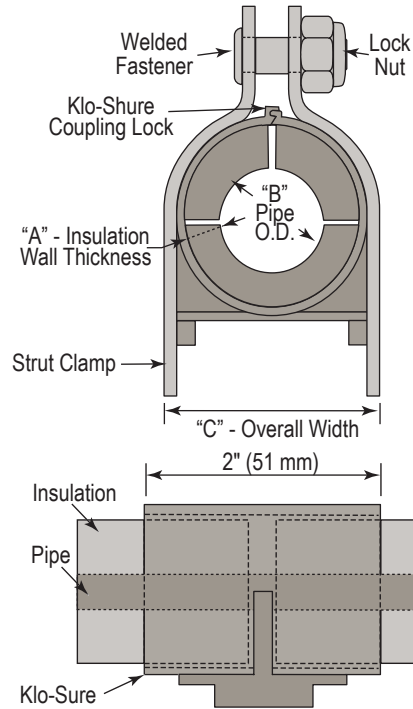
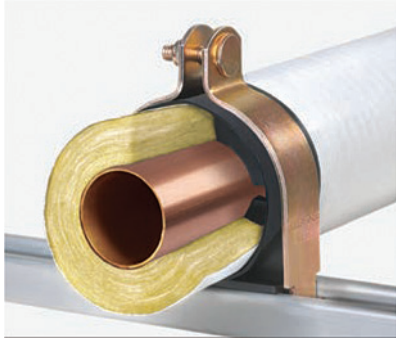
| Part No. | Insulation Wall Thickness | Copper Tube O.D. | C Overall Width |
|----------|---------------------------|------------------|-----------------|
| 723025   | 3/8"                      | 1/4" OD          | 1.12" (28mm)    |
| 723037   |                           | 3/8" OD          | 1.25" (32mm)    |
| 723050   |                           | 1/2" OD          | 1.37" (35mm)    |
| 723062   |                           | 5/8" OD          | 1.50" (38mm)    |
| 723075   |                           | 3/4" OD          | 1.62" (41mm)    |
| 723087   |                           | 7/8" OD          | 1.75" (44mm)    |
| 723100   |                           | 1" OD            | 1.87" (47mm)    |
| 723112   |                           | 1-1/8" OD        | 2.00" (51mm)    |
| 723137   |                           | 1-3/8" OD        | 2.25" (57mm)    |
| 723162   |                           | 1-5/8" OD        | 2.50" (64mm)    |
| 723212   | 2-1/8" OD                 | 3.00" (76mm)     |                 |
| 724025   | 1/2"                      | 1/4" OD          | 1.12" (28mm)    |
| 724037   |                           | 3/8" OD          | 1.50" (38mm)    |
| 724050   |                           | 1/2" OD          | 1.62" (41mm)    |
| 724062   |                           | 5/8" OD          | 1.75" (44mm)    |
| 724075   |                           | 3/4" OD          | 1.87" (47mm)    |
| 724087   |                           | 7/8" OD          | 2.00" (51mm)    |
| 724100   |                           | 1" OD            | 2.12" (54mm)    |
| 724112   |                           | 1-1/8" OD        | 2.25" (57mm)    |
| 724137   |                           | 1-3/8" OD        | 2.50" (64mm)    |
| 724162   |                           | 1-5/8" OD        | 2.75" (70mm)    |
| 724212   | 2-1/8" OD                 | 3.25" (83mm)     |                 |
| 724262   | 2-5/8" OD                 | 3.75" (95mm)     |                 |
| 724312   | 3-1/8" OD                 | 4.25" (108mm)    |                 |
| 724362   | 3-5/8" OD                 | 4.75" (121mm)    |                 |
| 724412   | 4-1/8" OD                 | 5.25" (133mm)    |                 |
| 726025   | 3/4"                      | 1/4" OD          | 1.87" (47mm)    |
| 726037   |                           | 3/8" OD          | 2.00" (51mm)    |
| 726050   |                           | 1/2" OD          | 2.12" (54mm)    |
| 726062   |                           | 5/8" OD          | 2.25" (57mm)    |
| 726075   |                           | 3/4" OD          | 2.37" (60mm)    |
| 726087   |                           | 7/8" OD          | 2.50" (64mm)    |
| 726112   |                           | 1-1/8" OD        | 2.75" (70mm)    |
| 726137   |                           | 1-3/8" OD        | 3.00" (76mm)    |
| 726162   |                           | 1-5/8" OD        | 3.25" (83mm)    |
| 726212   |                           | 2-1/8" OD        | 3.75" (95mm)    |
| 726262   | 2-5/8" OD                 | 4.25" (108mm)    |                 |
| 726312   | 3-1/8" OD                 | 4.75" (121mm)    |                 |
| 726362   | 3-5/8" OD                 | 5.25" (133mm)    |                 |
| 726412   | 4-1/8" OD                 | 5.75" (146mm)    |                 |

| Part No. | Insulation Wall Thickness | Copper Tube O.D. | C Overall Width |
|----------|---------------------------|------------------|-----------------|
| 728025   | 1"                        | 1/4" OD          | 2.37" (60mm)    |
| 728031   |                           | 5/16" OD         | 2.43" (62mm)    |
| 728037   |                           | 3/8" OD          | 2.50" (64mm)    |
| 728050   |                           | 1/2" OD          | 2.62" (67mm)    |
| 728062   |                           | 5/8" OD          | 2.75" (70mm)    |
| 728075   |                           | 3/4" OD          | 2.87" (73mm)    |
| 728087   |                           | 7/8" OD          | 3.00" (76mm)    |
| 728112   |                           | 1-1/8" OD        | 3.25" (83mm)    |
| 728137   |                           | 1-3/8" OD        | 3.50" (89mm)    |
| 728162   |                           | 1-5/8" OD        | 3.75" (95mm)    |
| 728212   | 2-1/8" OD                 | 4.25" (108mm)    |                 |
| 728262   | 2-5/8" OD                 | 4.75" (121mm)    |                 |
| 728312   | 3-1/8" OD                 | 5.25" (133mm)    |                 |
| 728362   | 3-5/8" OD                 | 5.75" (146mm)    |                 |
| 728412   | 4-1/8" OD                 | 6.25" (159mm)    |                 |
| 729031   | 1-1/2"                    | 5/16" OD         | 3.43" (87mm)    |
| 729037   |                           | 3/8" OD          | 3.50" (89mm)    |
| 729050   |                           | 1/2" OD          | 3.62" (92mm)    |
| 729062   |                           | 5/8" OD          | 3.75" (95mm)    |
| 729087   |                           | 7/8" OD          | 4.00" (102mm)   |
| 729112   |                           | 1-1/8" OD        | 4.25" (108mm)   |
| 729137   |                           | 1-3/8" OD        | 4.50" (114mm)   |
| 729162   |                           | 1-5/8" OD        | 4.75" (121mm)   |
| 729212   |                           | 2-1/8" OD        | 5.25" (133mm)   |
| 729262   |                           | 2-5/8" OD        | 5.75" (146mm)   |
| 729312   | 3-1/8" OD                 | 6.25" (159mm)    |                 |
| 729412   | 3-5/8" OD                 | 7.25" (184mm)    |                 |



Introduction  
Channel  
Channel Nuts & Hardware  
General Fittings  
Brackets  
Beam Clamps  
Pipe & Conduit Supports  
Electrical Fittings  
Spring Steel  
Concrete Inserts  
Roofing Supports  
Fiberglass System  
Technical Data

9-Series Strut Mount



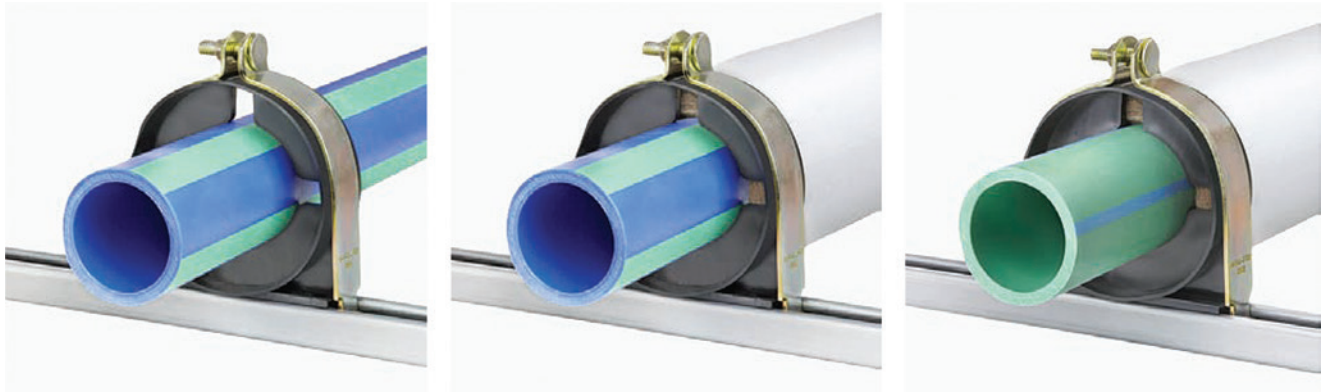
| Part No. | Insulation Wall Thickness | Copper Tube O.D. | C Overall Width |
|----------|---------------------------|------------------|-----------------|
| 924062   | 1/2"                      | 5/8" OD          | 1.79" (45mm)    |
| 924087   |                           | 7/8" OD          | 2.03" (51mm)    |
| 924112   |                           | 1-1/8" OD        | 2.29" (58mm)    |
| 924137   |                           | 1-3/8" OD        | 2.50" (64mm)    |
| 924162   |                           | 1-5/8" OD        | 2.85" (72mm)    |
| 924212   |                           | 2-1/8" OD        | 3.29" (83mm)    |
| 928062   | 1"                        | 5/8" OD          | 3.01" (76mm)    |
| 928087   |                           | 7/8" OD          | 3.01" (76mm)    |
| 928112   |                           | 1-1/8" OD        | 3.01" (76mm)    |
| 928137   |                           | 1-3/8" OD        | 3.64" (92mm)    |
| 928162   |                           | 1-5/8" OD        | 3.64" (92mm)    |
| 928212   |                           | 2-1/8" OD        | 4.14" (105mm)   |
| 928262   |                           | 2-5/8" OD        | 4.65" (118mm)   |
| 928312   |                           | 3-1/8" OD        | 5.14" (131mm)   |
| 928362   |                           | 3-5/8" OD        | 5.69" (145mm)   |
| 928412   |                           | 4-1/8" OD        | 6.87" (174mm)   |
| 928512   |                           | 5-1/8" OD        | 7.87" (200mm)   |
| 929087   |                           | 1-1/2"           | 7/8" OD         |
| 929112   | 1-1/8" OD                 |                  | 4.14" (105mm)   |
| 929137   | 1-3/8" OD                 |                  | 4.65" (118mm)   |
| 929162   | 1-5/8" OD                 |                  | 5.14" (131mm)   |
| 929212   | 2-1/8" OD                 |                  | 5.14" (131mm)   |
| 929262   | 2-5/8" OD                 |                  | 5.69" (145mm)   |
| 929312   | 3-1/8" OD                 |                  | 6.87" (174mm)   |
| 929362   | 3-5/8" OD                 |                  | 6.87" (174mm)   |
| 929412   | 4-1/8" OD                 | 7.87" (200mm)    |                 |
| 922062   | 2"                        | 5/8" OD          | 4.65" (118mm)   |
| 922087   |                           | 7/8" OD          | 5.14" (131mm)   |
| 922112   |                           | 1-1/8" OD        | 5.14" (131mm)   |
| 922137   |                           | 1-3/8" OD        | 5.7" (145mm)    |
| 922162   |                           | 1-5/8" OD        | 5.7" (145mm)    |
| 922212   |                           | 2-1/8" OD        | 6.87" (174mm)   |
| 922262   |                           | 2-5/8" OD        | 6.87" (174mm)   |
| 922312   |                           | 3-1/8" OD        | 7.87" (200mm)   |
| 922362   |                           | 3-5/8" OD        | 7.87" (200mm)   |
| 922412   |                           | 4-1/8" OD        | 8.87" (225mm)   |

| Part No. | Insulation Wall Thickness | Iron Pipe O.D. | C Overall Width |
|----------|---------------------------|----------------|-----------------|
| 924084   | 1/2"                      | 1/2" OD        | 0.840           |
| 924105   |                           | 3/4" OD        | 1.050           |
| 924131   |                           | 1" OD          | 1.315           |
| 924166   |                           | 1-1/4" OD      | 1.660           |
| 924190   |                           | 1-1/2" OD      | 1.900           |
| 928084   | 1"                        | 1/2" OD        | 0.840           |
| 928105   |                           | 3/4" OD        | 1.050           |
| 928131   |                           | 1" OD          | 1.315           |
| 928166   |                           | 1-1/4" OD      | 1.660           |
| 928190   |                           | 1-1/2" OD      | 1.900           |
| 928237   |                           | 2" OD          | 2.375           |
| 928287   |                           | 2-1/2" OD      | 2.875           |
| 928350   |                           | 3" OD          | 3.500           |
| 928362   |                           | 3-5/8" OD      | 3.625           |
| 928412   |                           | 4-1/8" OD      | 4.125           |
| 928512   |                           | 5-1/8" OD      | 5.125           |
| 929084   |                           | 1-1/2"         | 1/2" OD         |
| 929105   | 3/4" OD                   |                | 1.050           |
| 929131   | 1" OD                     |                | 1.315           |
| 929166   | 1-1/4" OD                 |                | 1.660           |
| 929190   | 1-1/2" OD                 |                | 1.900           |
| 929262   | 2-5/8" OD                 |                | 3.625           |
| 929312   | 3-1/8" OD                 |                | 4.125           |
| 929350   | 3" OD                     |                | 3.500           |
| 929362   | 3-5/8" OD                 | 3.625          |                 |
| 929412   | 4-1/8" OD                 | 4.125          |                 |
| 922212   | 2"                        | 2-1/8" OD      | 2.125           |
| 922262   |                           | 2-5/8" OD      | 2.625           |
| 922312   |                           | 3-1/8" OD      | 3.125           |
| 922362   |                           | 3-5/8" OD      | 3.625           |

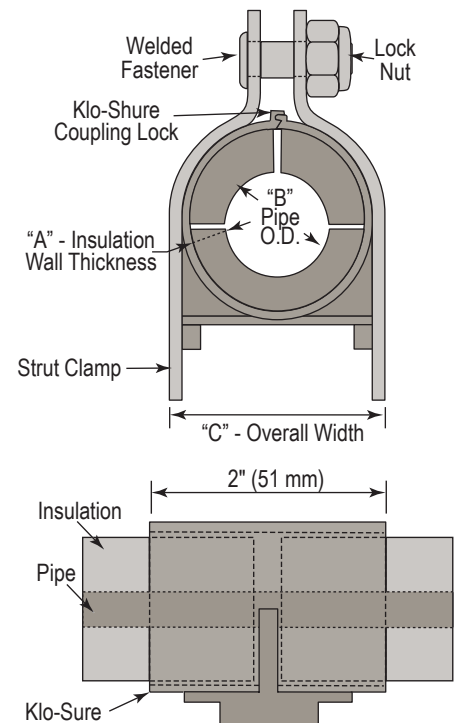


# Klo-Shure® Insulation Couplings

## 9-Series for Fiberglass Insulation



| Part No. | Insulation Wall Thickness | Metric Pipe |       | C Overall Width |
|----------|---------------------------|-------------|-------|-----------------|
| 928M25   | 1"                        | 25mm        | 0.98" | 3.01 (76mm)     |
| 928M32   |                           | 32mm        | 1.26" | 3.64 (92mm)     |
| 928M40   |                           | 40mm        | 1.57" | 3.64 (92mm)     |
| 928M50   |                           | 50mm        | 1.97" | 4.14 (105mm)    |
| 928M63   |                           | 63mm        | 2.48" | 4.64 (118mm)    |
| 928M75   |                           | 75mm        | 2.95" | 5.14 (131mm)    |
| 928M90   |                           | 90mm        | 3.54" | 5.75 (146mm)    |
| 928M110  |                           | 110mm       | 4.33" | 6.87 (174mm)    |
| 929M25   | 1-1/2"                    | 25mm        | 0.98" | 4.13 (105mm)    |
| 929M32   |                           | 32mm        | 1.26" | 4.63 (118mm)    |
| 929M40   |                           | 40mm        | 1.57" | 5.14 (131mm)    |
| 929M50   |                           | 50mm        | 1.97" | 5.14 (131mm)    |
| 929M63   |                           | 63mm        | 2.48" | 5.69 (145mm)    |
| 929M75   |                           | 75mm        | 2.95" | 6.87 (174mm)    |
| 929M90   |                           | 90mm        | 3.54" | 6.87 (174mm)    |

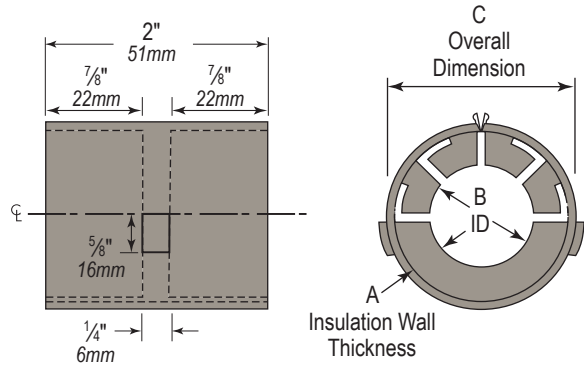
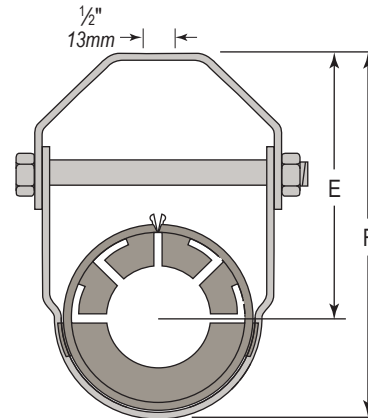




Klo-Shure Clevis Hanger System includes clevis hanger, plastic coupling and fastening clip.

| Part No. | Insulation Wall Thickness | Pipe O.D. | Dimensions (inches) |                  |                 |                |
|----------|---------------------------|-----------|---------------------|------------------|-----------------|----------------|
|          |                           |           | C                   | E                | F               |                |
| 703025*  | 3/8"                      | 1/4" OD   | 1.12 (28mm)         | -                | -               |                |
| 703037*  |                           | 3/8" OD   | 1.25 (32mm)         | -                | -               |                |
| 703050*  |                           | 1/2" OD   | 1.37 (35mm)         | -                | -               |                |
| 703062*  |                           | 5/8" OD   | 1.50 (38mm)         | -                | -               |                |
| 703075*  |                           | 3/4" OD   | 1.62 (41mm)         | -                | -               |                |
| 703087   |                           | 7/8" OD   | 1.75 (44mm)         | 3-3/8" (86mm)    | 4-3/8" (111mm)  |                |
| 703100   |                           | 1" OD     | 1.87 (47mm)         | 3-7/16" (87mm)   | 4-1/2" (114mm)  |                |
| 703112   |                           | 1-1/8" OD | 2.00 (51mm)         | 3-1/2" (89mm)    | 4-5/8" (118mm)  |                |
| 703137   |                           | 1-3/8" OD | 2.25 (57mm)         | 3-13/16" (97mm)  | 5" (127mm)      |                |
| 703162   |                           | 1-5/8" OD | 2.50 (64mm)         | 4" (102mm)       | 5-1/2" (140mm)  |                |
| 703212   |                           | 2-1/8" OD | 3.00 (76mm)         | 4-3/4" (121mm)   | 6-1/2" (165mm)  |                |
| 704037*  |                           | 1/2"      | 3/8" OD             | 1.50 (38mm)      | --              | --             |
| 704050*  |                           |           | 1/2" OD             | 1.62 (41mm)      | --              | --             |
| 704062   | 5/8" OD                   |           | 1.75 (44mm)         | 3-3/8" (86mm)    | 4-3/8" (111mm)  |                |
| 704075   | 3/4" OD                   |           | 1.87 (47mm)         | 3-7/16" (87mm)   | 4-1/2" (114mm)  |                |
| 704087   | 7/8" OD                   |           | 2.00 (51mm)         | 3-1/2" (89mm)    | 4-5/8" (118mm)  |                |
| 704100   | 1" OD                     |           | 2.12 (54mm)         | 3-5/8" (92mm)    | 4-7/8" (124mm)  |                |
| 704112   | 1-1/8" OD                 |           | 2.25 (57mm)         | 3-13/16" (97mm)  | 5" (127mm)      |                |
| 704137   | 1-3/8" OD                 |           | 2.50 (64mm)         | 4" (102mm)       | 5-1/2" (140mm)  |                |
| 704162   | 1-5/8" OD                 |           | 2.75 (70mm)         | 4-3/8" (111mm)   | 5-7/8" (149mm)  |                |
| 704212   | 2-1/8" OD                 |           | 3.25 (83mm)         | 5-1/8" (130mm)   | 6-7/8" (175mm)  |                |
| 704262   | 2-5/8" OD                 |           | 3.75 (95mm)         | 5-5/8" (143mm)   | 7-5/8" (194mm)  |                |
| 704312   | 3-1/8" OD                 |           | 4.25 (108mm)        | 6-7/16" (164mm)  | 8-3/4" (222mm)  |                |
| 704362   | 3-5/8" OD                 |           | 4.75 (121mm)        | 6-7/8" (175mm)   | 9-3/8" (238mm)  |                |
| 704412   | 4-1/8" OD                 |           | 5.25 (133mm)        | 7-1/2" (191mm)   | 10-1/8" (257mm) |                |
| 706025   | 3/4"                      |           | 1/4" OD             | 1.87 (47mm)      | 3-7/16" (87mm)  | 4-1/2" (114mm) |
| 706037   |                           |           | 3/8" OD             | 2.00 (51mm)      | 3-1/2" (89mm)   | 4-5/8" (118mm) |
| 706050   |                           | 1/2" OD   | 2.12 (54mm)         | 3-5/8" (92mm)    | 4-7/8" (124mm)  |                |
| 706062   |                           | 5/8" OD   | 2.25 (57mm)         | 3-13/16" (97mm)  | 5" (127mm)      |                |
| 706075   |                           | 3/4" OD   | 2.37 (60mm)         | 3-15/16" (100mm) | 5-1/4" (133mm)  |                |
| 706087   |                           | 7/8" OD   | 2.50 (64mm)         | 4" (102mm)       | 5-1/2" (140mm)  |                |
| 706112   |                           | 1-1/8" OD | 2.75 (70mm)         | 4-3/8" (111mm)   | 5-7/8" (149mm)  |                |
| 706137   |                           | 1-3/8" OD | 3.00 (76mm)         | 4-3/4" (121mm)   | 6-1/2" (165mm)  |                |
| 706162   |                           | 1-5/8" OD | 3.25 (83mm)         | 5-1/8" (130mm)   | 6-7/8" (175mm)  |                |
| 706212   |                           | 2-1/8" OD | 3.75 (95mm)         | 5-5/8" (143mm)   | 7-5/8" (194mm)  |                |
| 706262   |                           | 2-5/8" OD | 4.25 (108mm)        | 6-7/16" (164mm)  | 8-3/4" (222mm)  |                |
| 706312   |                           | 3-1/8" OD | 4.75 (121mm)        | 6-7/8" (175mm)   | 9-3/8" (238mm)  |                |
| 706362   |                           | 3-5/8" OD | 5.25 (133mm)        | 7-1/2" (191mm)   | 10-1/8" (257mm) |                |
| 706412   |                           | 4-1/8" OD | 5.75 (146mm)        | 7-7/8" (181mm)   | 10-3/4" (273mm) |                |
| 708062   |                           | 1"        | 5/8" OD             | 2.75 (70mm)      | 4-3/8" (111mm)  | 5-7/8" (149mm) |
| 708087   |                           |           | 7/8" OD             | 3.00 (76mm)      | 4-3/4" (121mm)  | 6-1/2" (165mm) |
| 708112   | 1-1/8" OD                 |           | 3.25 (83mm)         | 5-1/8" (130mm)   | 6-7/8" (175mm)  |                |
| 708137   | 1-3/8" OD                 |           | 3.50 (89mm)         | 5-3/8" (137mm)   | 7-1/4" (184mm)  |                |
| 708162   | 1-5/8" OD                 |           | 3.75 (95mm)         | 5-5/8" (143mm)   | 7-5/8" (194mm)  |                |
| 708212   | 2-1/8" OD                 |           | 4.25 (108mm)        | 6-7/16" (164mm)  | 8-3/4" (222mm)  |                |
| 708262   | 2-5/8" OD                 |           | 4.75 (121mm)        | 6-7/8" (175mm)   | 9-3/8" (238mm)  |                |
| 708312   | 3-1/8" OD                 |           | 5.25 (133mm)        | 7-1/2" (191mm)   | 10-1/8" (257mm) |                |
| 708362   | 3-5/8" OD                 |           | 5.75 (146mm)        | 7-7/8" (181mm)   | 10-3/4" (273mm) |                |

Note: \*Part number includes plastic coupling only. All metal parts have Tri-Valent plating.



| Coupling "C" Dimension | Material size   | Cross Bolt Size | Max Recommended Loads Lbs |
|------------------------|-----------------|-----------------|---------------------------|
| 2.12" to 3.25"         | 14 gauge x 1.25 | 5/16"           | 250 (1.11 kN)             |
| 3.50" to 5.75"         | 12 gauge x 1.25 | 5/16"           | 350 (1.156 kN)            |



## Cush-A-Claw®



Strut Mounted

| Insert | Twist & Lock | Position Pipe | Snap In |
|--------|--------------|---------------|---------|
|        |              |               |         |



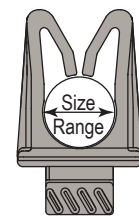
Surface Mounted

| Position                             | Mount w/Screw   | Position Pipe | Snap In |
|--------------------------------------|---|---------------|---------|
|                                      |   |               |         |
| Side grooves provide Centering guide | Counter-sunk hole allows tightening of any type of #10 fastener |               |         |

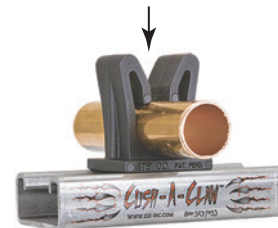
The **Cush-A-Claw** Grabs on to your Tube, Pipe, or Hose and holds it in place. The unique one piece patented design allows for quick, simple, and easy installation. It will not rust because it's molded from the same choice TPE Material of some of our other products that you've come to know and trust.

- Easy Snap-in Installation of Tube, Pipe, or Hose
- Sure Grip Strut Base easily rotates into strut
- Will not rust
- Non Conducting
- Saves Time and Money
- Temp Range: -50° to 275° F (-45°C to 135°C)
- Works Great Indoors or Outdoors
- Seven Sizes of Tube and Three Sizes of EMT
- Designed for Light Duty Loads and Applications
- Prevents Galvanic Corrosion of Dissimilar Metals
- An Excellent Alternative to Steel, Stainless Steel, or Galvanized Clamps.

| O.D. Tube Size     |                       |               | EMTS Conduit Sizes |                       |             |
|--------------------|-----------------------|---------------|--------------------|-----------------------|-------------|
| Strut Mount Part # | Surface Mount Part #. | Size O.D.     | Strut Mount Part # | Surface Mount Part #. | Size O.D.   |
| CL-04              | CLS-04                | 1/4" (6mm)    | EMT-1/2            | EMTS-1/2              | 1/2" (18mm) |
| CL-06              | CLS-06                | 3/8" (10mm)   | EMT-3/4            | EMTS-3/4              | 3/4" (23mm) |
| CL-08              | CLS-08                | 1/2" (13mm)   | EMT-1              | EMTS-1                | 1" (30mm)   |
| CL-10              | CLS-10                | 5/8" (16mm)   |                    |                       |             |
| CL-12              | CLS-12                | 3/4" (19mm)   |                    |                       |             |
| CL-14              | CLS-14                | 7/8" (22mm)   |                    |                       |             |
| CL-18              | CLS-18                | 1 1/8" (29mm) |                    |                       |             |



75 Lbs. Load (Safety Factor: 3)



Cush-A-Claw® is manufactured under U.S. patent #D631739, #D679177, and European Community patent #0011520030001, #0011520030002, #0011520030003, #0011520030004, #0011520030005, #0011520030006, #0011520030007





**Omega Series™**

The Omega Series™ clamp assembly retains, guides, protects, and uniformly spaces line runs. Attached with two standard fasteners to any flat surface, the Omega Series™ clamp eliminates the use of special channels, providing a savings in both space and cost. They go up fast, lines are rigid, and look neat.

**THE CLAMP** — Steel with gold electro-dichromate finish, or stainless steel type 304.

**THE CUSHION** — Manufactured from a thermoplastic elastomer, it's built tough to withstand the effects of most oils, chemicals and industrial cleaning compounds. Interlock edge ensures that the cushion remains in place.



Stainless Steel



Assembly consists of clamp and thermoplastic elastomer cushion. Fasteners not included.



Stainless Steel



Gold Electro-Galvanized Steel

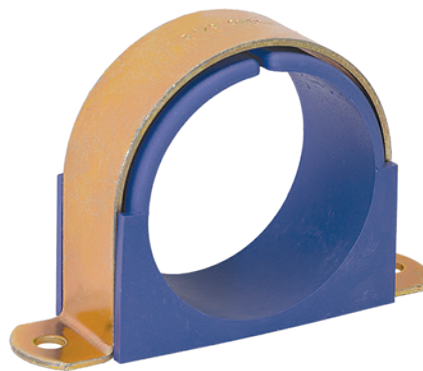
**Standard**

**Extreme Temp (HT)**

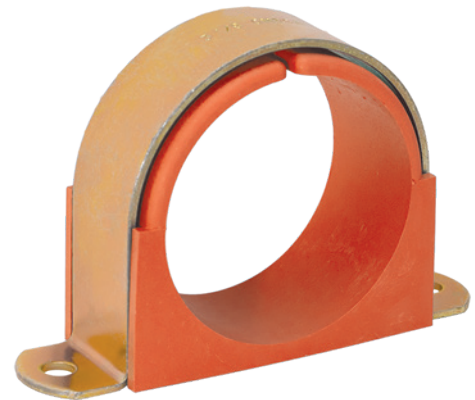
**High Intensity Temp (HIT)**



-50°F to 275°F  
(-45°C to 135°C)



-65°F to 340°F  
(-53°C to 170°C)

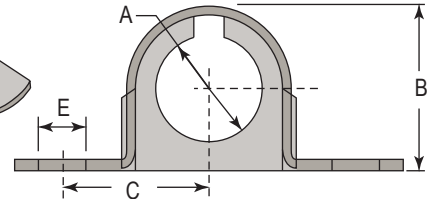
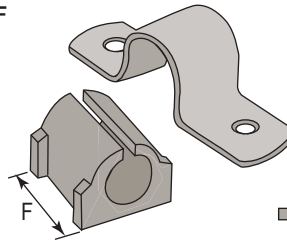
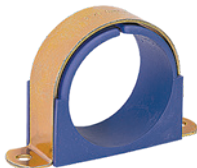


-65°F to 400°F  
(-53°C to 204°C)

**Standard**  
-50°F to 275°F  
(-45°C to 135°C)

**Extreme Temp (HT)**  
-65°F to 340°F  
(-53°C to 170°C)

**High Intensity Temp (HIT)**  
-65°F to 400°F  
(-53°C to 204°C)



| Steel - Part No.                  |              |                     | Copper & Steel Tubing O.D.   | Copper Water Pipe (Nom.) | Pipe Size (Nom.) | Dimensions (inches)                              |               |               |             |              | Hanging Design Load |
|-----------------------------------|--------------|---------------------|------------------------------|--------------------------|------------------|--|---------------|---------------|-------------|--------------|---------------------|
| Standard Black                    | Extreme Blue | High Intensity Temp |                              |                          |                  | A  | B             | C             | E           | F            |                     |
| 004M007                           | HT004M007    | HIT004M007          | 1/4"                         | -                        | -                | 0.25" (6mm)                                      | 0.48" (12mm)  | 0.60" (15mm)  | 0.26" (7mm) | 0.78"        | 50 (0.22 kN)        |
| 006M008                           | HT006M008    | HIT006M008          | 3/8"                         | 1/4"                     | -                | 0.37" (9mm)                                      | 0.62" (16mm)  | 0.66" (17mm)  |             | 0.81"        |                     |
| 008M011                           | HT008M011    | HIT008M011          | 1/2"                         | 3/8"                     | 1/4"             | 0.50" (13mm)                                     | 0.81" (21mm)  | 0.83" (21mm)  |             | 0.98" (25mm) |                     |
| 010M013                           | HT010M013    | HIT010M013          | 5/8"                         | 1/2"                     | 3/8"             | 0.62" (16mm)                                     | 0.93" (24mm)  | 0.85" (22mm)  |             |              |                     |
| 012M015                           | HT012M015    | HIT012M015          | 3/4"                         | 5/8"                     | -                | 0.75" (19mm)                                     | 1.02" (26mm)  | 0.90" (23mm)  |             |              |                     |
| 014M017                           | HT014M017    | HIT014M017          | 7/8"                         | 3/4"                     | 1/2"             | 0.87" (22mm)                                     | 1.12" (28mm)  | 1.03" (26mm)  |             |              |                     |
| 016M019                           | HT016M019    | HIT016M019          | 1"                           | -                        | -                | 1.00" (25mm)                                     | 1.24" (31mm)  | 1.04" (26mm)  |             |              |                     |
| 018M020                           | HT018M020    | HIT018M020          | -                            | -                        | 3/4"             | 1.05" (27mm)                                     | 1.40" (36mm)  | 1.11" (28mm)  |             |              |                     |
| 018M021                           | HT018M021    | HIT018M021          | 1-1/8"                       | 1"                       | -                | 1.12" (28mm)                                     | 1.40" (36mm)  | 1.17" (30mm)  |             |              |                     |
| 020M024                           | HT020M024    | HIT020M024          | 1-1/4"                       | -                        | -                | 1.25" (32mm)                                     | 1.60" (41mm)  | 1.20" (30mm)  |             |              |                     |
| 021M026                           | HT021M026    | HIT021M026          | -                            | -                        | 1"               | 1.31" (33mm)                                     | 1.71" (43mm)  | 1.28" (33mm)  |             |              |                     |
| 022M026                           | HT022M026    | HIT022M026          | 1-3/8"                       | 1-1/4"                   | -                | 1.37" (35mm)                                     | 1.71" (43mm)  | 1.28" (33mm)  |             |              |                     |
| 024M028                           | HT024M028    | HIT024M028          | 1-1/2"                       | -                        | -                | 1.50" (38mm)                                     | 1.85" (47mm)  | 1.36" (35mm)  |             |              |                     |
| 026M030                           | HT026M030    | HIT026M030          | 1-5/8"                       | 1-1/2"                   | -                | 1.62" (41mm)                                     | 1.98" (50mm)  | 1.43" (36mm)  |             |              |                     |
| 027M032                           | HT027M032    | HIT027M032          | -                            | -                        | 1-1/4"           | 1.66" (42mm)                                     | 2.12" (54mm)  | 1.55" (39mm)  |             |              |                     |
| 028M032                           | HT028M032    | HIT028M032          | 1-3/4"                       | -                        | -                | 1.75" (44mm)                                     | 2.12" (54mm)  | 1.55" (39mm)  |             |              |                     |
| 030M034                           | HT030M034    | HIT030M034          | 1-7/8"                       | -                        | 1-1/2"           | 1.87" (47mm)                                     | 2.25" (57mm)  | 1.64" (42mm)  |             |              |                     |
| 032M036                           | HT032M036    | HIT032M036          | 2"                           | -                        | -                | 2.00" (51mm)                                     | 2.38" (60mm)  | 1.69" (43mm)  |             |              |                     |
| 034M040                           | HT034M040    | HIT034M040          | 2-1/8"                       | -                        | -                | 2.12" (54mm)                                     | 2.62" (67mm)  | 1.86" (47mm)  |             |              |                     |
| 038M044                           | HT038M044    | HIT038M044          | 2-3/8"                       | -                        | 2"               | 2.37" (60mm)                                     | 2.88" (73mm)  | 1.94" (49mm)  |             |              |                     |
| 040M046                           | HT040M046    | HIT040M046          | 2-1/2"                       | -                        | -                | 2.50" (64mm)                                     | 3.00" (76mm)  | 2.00" (51mm)  |             |              |                     |
| 042M048                           | HT042M048    | HIT042M048          | 2-5/8"                       | 2-1/2"                   | -                | 2.62" (67mm)                                     | 3.13" (80mm)  | 2.07" (53mm)  |             |              |                     |
| 046M052                           | HT046M052    | HIT046M052          | 2-7/8"                       | -                        | 2-1/2"           | 2.87" (73mm)                                     | 3.38" (86mm)  | 2.19" (56mm)  |             |              |                     |
| 050M056                           | HT050M056    | HIT050M056          | 3-1/8"                       | 3"                       | -                | 3.12" (79mm)                                     | 3.68" (93mm)  | 2.32" (59mm)  |             |              |                     |
| 056M062                           | HT056M062    | HIT056M062          | 3-1/2"                       | -                        | 3"               | 3.50" (89mm)                                     | 4.06" (103mm) | 2.50" (64mm)  |             |              |                     |
| 058M064                           | HT058M064    | HIT058M064          | 3-5/8"                       | 3-1/2"                   | -                | 3.62" (92mm)                                     | 4.19" (106mm) | 2.57" (65mm)  |             |              |                     |
| 064M072                           | HT064M072    | HIT064M072          | 4"                           | -                        | 3-1/2"           | 4.00" (102mm)                                    | 4.68" (119mm) | 2.82" (72mm)  |             |              |                     |
| 066M074                           | HT066M074    | HIT066M074          | 4-1/8"                       | 4"                       | -                | 4.12" (105mm)                                    | 4.84" (123mm) | 3.05" (77mm)  |             |              |                     |
| 072M080                           | HT072M080    | HIT072M080          | 4-1/2"                       | -                        | 4"               | 4.50" (114mm)                                    | 5.22" (133mm) | 3.24" (82mm)  |             |              |                     |
| 082M090                           | HT082M090    | HIT082M090          | 5-1/8"                       | 5"                       | -                | 5.12" (130mm)                                    | 5.82" (148mm) | 3.55" (90mm)  |             |              |                     |
| 089M096                           | HT089M096    | HIT089M096          | -                            | -                        | 5"               | 5.56" (141mm)                                    | 6.31" (160mm) | 4.00" (102mm) |             |              |                     |
| 098M106                           | HT098M106    | HIT098M106          | 6-1/8"                       | 6"                       | -                | 6.12" (155mm)                                    | 6.90" (175mm) | 4.31" (109mm) |             |              |                     |
| 106M114                           | HT106M114    | HIT106M114          | -                            | -                        | 6"               | 6.62" (168mm)                                    | 7.39" (188mm) | 4.56" (116mm) |             |              |                     |
| PART NO. SUFFIX                   |              |                     | Cushions                     |                          |                  | Example  |               |               |             |              |                     |
| CHANGE "M" IN PART NUMBER TO 'MS' |              |                     | Thermoplastic elastomer      |                          |                  | 004M007 (STEEL) - 004MS007 (STAINLESS STEEL)     |               |               |             |              |                     |
| N                                 | -            |                     | Flame Retardant              |                          |                  | 004M007N (STEEL) - 004MS007N (STAINLESS STEEL)   |               |               |             |              |                     |
| NH                                | -            |                     | Flame Retardant Halogen Free |                          |                  | 004M007NH (STEEL) - 004MS007NH (STAINLESS STEEL) |               |               |             |              |                     |

Note: Fasteners not included.



Introduction

Channel

Channel Nuts & Hardware

General Fittings

Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

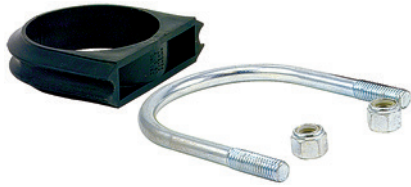
Concrete Inserts

Roofing Supports

Fiberglass System

Technical Data

### Alpha Series™



Designed for the tough jobs, the **Alpha Series™** U-Bolt Assembly secures pipe runs to any flat surface. The cushion design provides total load distribution, allowing the U-Bolt to become a full contact hanger, eliminating knife-edge loading. The U-Bolt traps and secures the cushion in place to prevent lateral movement, while nylon insert lock nuts provide a positive lock.

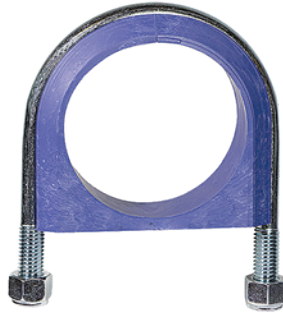
**Alpha Series™** U-Bolt Assembly conforms to MIL-S-901D for shock testing.

#### Standard



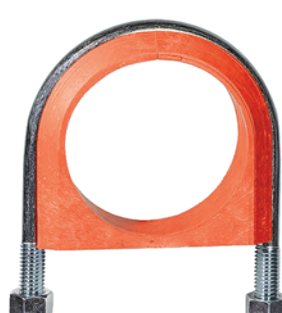
**-50°F to 275°F**  
(-45°C to 135°C)

#### Extreme Temp (HT)

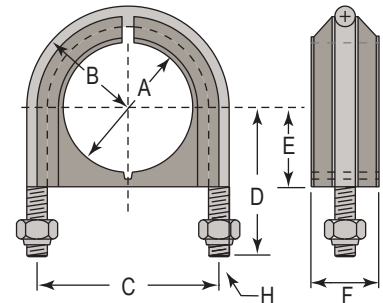


**-65°F to 340°F**  
(-53°C to 170°C)

#### High Intensity Temp (HIT)



**-65°F to 400°F**  
(-53°C to 204°C)



½" thru 6" assembly

| Assembly Part No. |              |                     | Tube Size (O.D.)          | Dimensions (Inches)          |                 |                  |                  |                 |                 | H Bolt Size    | Torque | Design Load Lbs. (kN) | Slip Thru |
|-------------------|--------------|---------------------|---------------------------|------------------------------|-----------------|------------------|------------------|-----------------|-----------------|----------------|--------|-----------------------|-----------|
| Standard Black    | Extreme Blue | High Intensity Temp |                           | A Dia.                       | B Radius        | C                | D                | E               | F               |                |        |                       |           |
| UB7/8TA           | HTUB7/8TA    | HITUB7/8TA          | 7/8"                      | 0.875"<br>(22mm)             | 0.80"<br>(20mm) | 1.60"<br>(41mm)  | 1.50"<br>(38mm)  | 0.67"<br>(17mm) | 0.68"<br>(17mm) | 1/4"-20 UNC-2B | 100    | 485<br>(2.16 kN)      | 500       |
| UB1TA             | HTUB1TA      | HITUB1TA            | 1"                        | 1.00"<br>(25mm)              | 0.90"<br>(23mm) | 1.80"<br>(46mm)  | 1.60"<br>(41mm)  | 0.78"<br>(20mm) | 0.68"<br>(17mm) | 1/4"-20 UNC-2B |        |                       | 500       |
| UB11/4TA          | HTUB1-1/4TA  | HITUB1-1/4TA        | 1-1/4"                    | 1.25"<br>(32mm)              | 1.02"<br>(26mm) | 2.05"<br>(52mm)  | 1.70"<br>(43mm)  | 0.91"<br>(23mm) | 0.68"<br>(17mm) | 1/4"-20 UNC-2B |        |                       | 500       |
| UB13/8TA          | HTUB1-3/8TA  | HITUB1-3/8TA        | 1-3/8"                    | 1.375"<br>(35mm)             | 1.02"<br>(26mm) | 2.05"<br>(52mm)  | 1.70"<br>(43mm)  | 0.91"<br>(23mm) | 0.68"<br>(17mm) | 1/4"-20 UNC-2B |        |                       | 500       |
| UB2TA             | HTUB2TA      | HITUB2TA            | 2"                        | 2.00"<br>(51mm)              | 1.40"<br>(36mm) | 2.80"<br>(71mm)  | 2.20"<br>(56mm)  | 1.19"<br>(30mm) | 1.24"<br>(31mm) | 3/8"-16 UNC-2B | 150    | 1,220<br>(5.43 kN)    | 500       |
| UB3TA             | HTUB3TA      | HITUB3TA            | 3"                        | 3.00"<br>(76mm)              | 1.95"<br>(50mm) | 3.90"<br>(99mm)  | 3.00"<br>(76mm)  | 1.69"<br>(43mm) | 1.24"<br>(31mm) | 1/2"-13 UNC-2B | 200    | 2,260<br>(10.05 kN)   | 500       |
| UB4TA             | HTUB4TA      | HITUB4TA            | 4"                        | 4.00"<br>(102mm)             | 2.52"<br>(64mm) | 5.05"<br>(128mm) | 3.70"<br>(94mm)  | 2.25"<br>(57mm) | 1.24"<br>(31mm) | 1/2"-13 UNC-2B |        |                       | 500       |
| UB5TA             | HTUB5TA      | HITUB5TA            | 5"                        | 5.00"<br>(127mm)             | 3.25"<br>(83mm) | 6.56"<br>(167mm) | 4.50"<br>(114mm) | 3.03"<br>(77mm) | 1.24"<br>(31mm) | 1/2"-13 UNC-2B |        |                       | 500       |
| UB6TA             | HTUB6TA      | HITUB6TA            | 6"                        | 6.00"<br>(152mm)             | 3.87"<br>(98mm) | 7.75"<br>(197mm) | 5.40"<br>(137mm) | 3.56"<br>(90mm) | 1.44"<br>(37mm) | 5/8"-11 UNC-2B | 250    | 3,620<br>(16.10 kN)   | 500       |
| ▼<br>SUFFIX       |              |                     | Clamp                     | Cushion                      |                 |                  |                  |                 |                 | Example        |        |                       |           |
| NONE              |              |                     | Electro-galvanized        | Thermoplastic elastomer      |                 |                  |                  |                 |                 | UB½PA          |        |                       |           |
| 6                 |              |                     | Stainless Steel, Type 316 | Thermoplastic elastomer      |                 |                  |                  |                 |                 | UB½PA6         |        |                       |           |
| N6                | -            | -                   | Stainless Steel, Type 316 | Flame Retardant              |                 |                  |                  |                 |                 | UB½PAN6        |        |                       |           |
| N                 | -            | -                   | Electro-galvanized        |                              |                 |                  |                  |                 |                 | UB½PAN         |        |                       |           |
| NH                | -            | -                   | Electro-galvanized        | Flame Retardant Halogen Free |                 |                  |                  |                 |                 | UB½PANH        |        |                       |           |
| NH6               | -            | -                   | Stainless Steel, Type 316 |                              |                 |                  |                  |                 |                 | UB½PANH6       |        |                       |           |



## Pipe Sizes



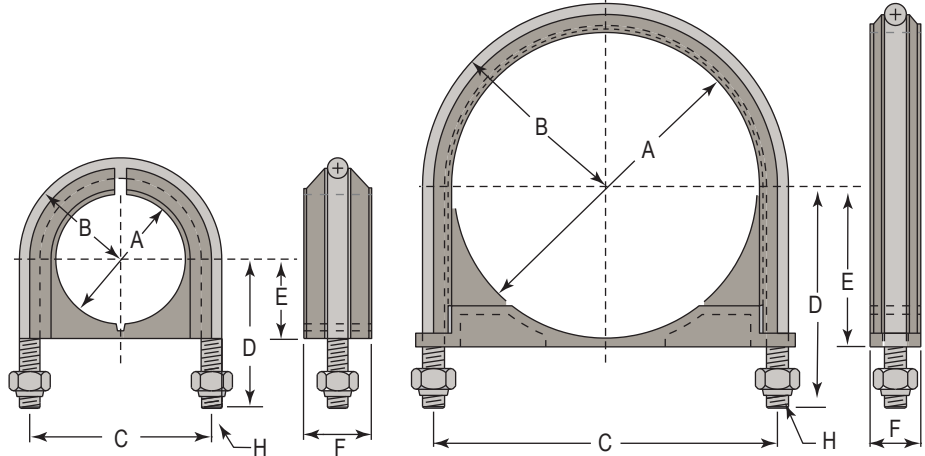
**Standard**  
-50°F to 275°F  
(-45°C to 135°C)



**Extreme Temp (HT)**  
-65°F to 340°F  
(-53°C to 170°C)



**High Intensity Temp (HIT)**  
-65°F to 400°F  
(-53°C to 204°C)



1/2" thru 6" assembly

8" thru 12" assembly – Two piece cushion design

| Assembly Part No. |              |                     | Pipe Size (Nom.)          | Dimensions (Inches) |                         |               |               |               |              |                | Torque | Design Load Lbs. (kN) | Slip Thru |
|-------------------|--------------|---------------------|---------------------------|---------------------|-------------------------|---------------|---------------|---------------|--------------|----------------|--------|-----------------------|-----------|
| Standard Black    | Extreme Blue | High Intensity Temp |                           | A Dia.              | B Radius                | C             | D             | E             | F            | H              |        |                       |           |
| UB1/2PA           | HTUB1/2PA    | HITUB1/2PA          | 1/2"                      | 0.840" (21mm)       | 0.80" (20mm)            | 1.60 (41mm)   | 1.50" (38mm)  | 0.67" (17mm)  | 0.68" (17mm) | 1/4"-20 UNC-2B | 100    | 485 (2.16 kN)         | 500       |
| UB3/4PA           | HTUB3/4PA    | HITUB3/4PA          | 3/4"                      | 1.05" (27mm)        | 0.90" (23mm)            | 1.80 (46mm)   | 1.60" (41mm)  | 0.78" (20mm)  | 0.68" (17mm) | 1/4"-20 UNC-2B |        |                       | 500       |
| UB1PA             | HTUB1PA      | HITUB1PA            | 1"                        | 1.31" (33mm)        | 1.02" (26mm)            | 2.05 (52mm)   | 1.70" (43mm)  | 0.91" (23mm)  | 0.68" (17mm) | 1/4"-20 UNC-2B |        |                       | 500       |
| UB1-1/4PA         | HTUB1-1/4PA  | HITUB1-1/4PA        | 1-1/4"                    | 1.66" (42mm)        | 1.27" (32mm)            | 2.55 (65mm)   | 2.10" (53mm)  | 1.08" (27mm)  | 1.24" (31mm) | 3/8"-16 UNC-2B | 150    | 1,220 (5.43 kN)       | 500       |
| UB1-1/2PA         | HTUB1-1/2PA  | HITUB1-1/2PA        | 1-1/2"                    | 1.90" (48mm)        | 1.40" (36mm)            | 2.80 (71mm)   | 2.20" (56mm)  | 1.19" (30mm)  | 1.24" (31mm) | 3/8"-16 UNC-2B |        |                       | 500       |
| UB2PA             | HTUB2PA      | HITUB2PA            | 2"                        | 2.37" (60mm)        | 1.67" (42mm)            | 3.35 (85mm)   | 2.50" (64mm)  | 1.45" (37mm)  | 1.24" (31mm) | 3/8"-16 UNC-2B |        |                       | 500       |
| UB2-1/2PA         | HTUB2-1/2PA  | HITUB2-1/2PA        | 2-1/2"                    | 2.87" (73mm)        | 1.95" (50mm)            | 3.90 (99mm)   | 3.00" (76mm)  | 1.69" (43mm)  | 1.24" (31mm) | 1/2"-13 UNC-2B | 200    | 2,260 (10.05 kN)      | 500       |
| UB3PA             | HTUB3PA      | HITUB3PA            | 3"                        | 3.50" (89mm)        | 2.27" (58mm)            | 4.55 (116mm)  | 3.30" (84mm)  | 2.00" (51mm)  | 1.24" (31mm) | 1/2"-13 UNC-2B |        |                       | 500       |
| UB3-1/2PA         | HTUB3-1/2PA  | HITUB3-1/2PA        | 3-1/2"                    | 4.00" (102mm)       | 2.52" (64mm)            | 5.05 (128mm)  | 3.70" (94mm)  | 2.25" (57mm)  | 1.24" (31mm) | 1/2"-13 UNC-2B |        |                       | 500       |
| UB4PA             | HTUB4PA      | HITUB4PA            | 4"                        | 4.50" (114mm)       | 2.50" (64mm)            | 5.50 (140mm)  | 3.90" (99mm)  | 2.50" (64mm)  | 1.24" (31mm) | 1/2"-13 UNC-2B | 250    | 3,620 (16.10 kN)      | 500       |
| UB5PA             | HTUB5PA      | HITUB5PA            | 5"                        | 5.56" (141mm)       | 3.25" (83mm)            | 6.56 (167mm)  | 4.50" (114mm) | 3.03" (77mm)  | 1.24" (31mm) | 1/2"-13 UNC-2B |        |                       | 500       |
| UB6PA             | HTUB6PA      | HITUB6PA            | 6"                        | 6.62" (168mm)       | 3.87" (98mm)            | 7.75 (197mm)  | 5.40" (137mm) | 3.56" (90mm)  | 1.44" (37mm) | 5/8"-11 UNC-2B |        |                       | 500       |
| UB8PA             | HTUB8PA      | HITUB8PA            | 8"                        | 8.62" (219mm)       | 4.85" (123mm)           | 9.82 (249mm)  | 6.40" (163mm) | 4.56" (116mm) | 1.44" (37mm) | 5/8"-11 UNC-2B | 275    | 5,420 (25.11 kN)      | 500       |
| UB10PA            | HTUB10PA     | HITUB10PA           | 10"                       | 10.75" (273mm)      | 6.08" (154mm)           | 12.16 (309mm) | 7.70" (196mm) | 5.68" (144mm) | 1.65" (42mm) | 3/4"-10 UNC-2B |        |                       | 500       |
| UB12PA            | HTUB12PA     | HITUB12PA           | 12"                       | 12.75" (324mm)      | 7.13" (181mm)           | 14.25 (362mm) | 8.7" (221mm)  | 6.68" (170mm) | 1.65" (42mm) | 3/4"-10 UNC-2B |        |                       | 500       |
| ▼<br>SUFFIX       |              |                     | Clamp                     |                     | Cushion                 |               |               |               |              | Example        |        |                       |           |
| NONE              |              |                     | Electro-galvanized        |                     | Thermoplastic elastomer |               |               |               |              | UB1/2PA        |        |                       |           |
| 6                 |              |                     | Stainless Steel, Type 316 |                     | Thermoplastic elastomer |               |               |               |              | UB1/2PA6       |        |                       |           |
| N6                | -            | -                   | Stainless Steel, Type 316 |                     |                         |               |               |               |              | UB1/2PAN6      |        |                       |           |
| N                 | -            | -                   | Electro-galvanized        |                     |                         |               |               |               |              | UB1/2PAN       |        |                       |           |
| NH                | -            | -                   | Electro-galvanized        |                     |                         |               |               |               |              | UB1/2PANH      |        |                       |           |
| NH6               | -            | -                   | Stainless Steel, Type 316 |                     |                         |               |               |               |              | UB1/2PANH6     |        |                       |           |



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Brackets

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Electrical Fittings

Spring Steel

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Rooftop Supports

Fiberglass System

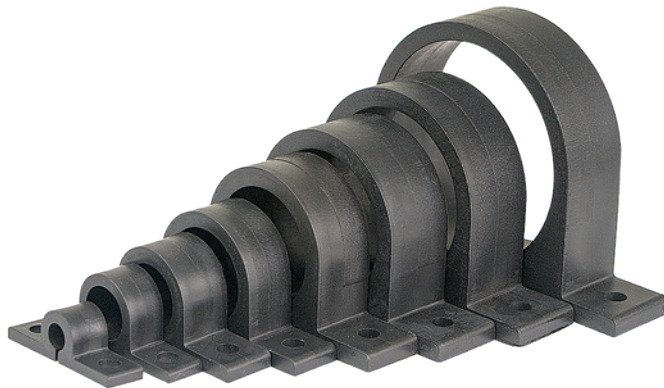
Technical Data



## Cush-a-Glide™

Cush-A-Glide is designed for fast installation of copper tube or pipe, and can be easily installed in seconds with fasteners of your choice. Just spread the clamp apart placing it over the top of a tube or pipe and fasten one side. Push in the opposite side to the desired tightness, allowing for expansion and contraction, then fasten the other side.

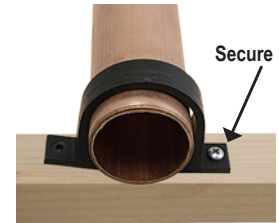
- Allows for expansion and contraction of copper tube and pipe
- Excellent alternative to stainless or galvanized clamps
- Fits tightly and securely against mounting surfaces
- Made from trusted high quality TPE material
- One piece molded split ring design
- Suitable for indoor or outdoor applications
- Temperature range of -50°F to 275°F (-45°C to 135°C)
- Will not rust and prevents and eliminates galvanic corrosion
- Made in the USA



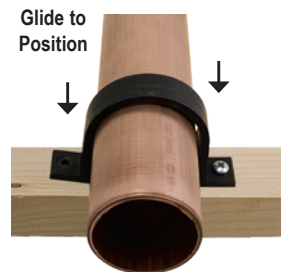
**Step 1:** Spread open Cush-a-Glide, and place it over tube, pipe, or hose



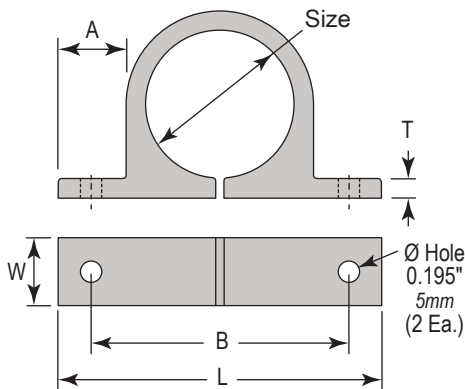
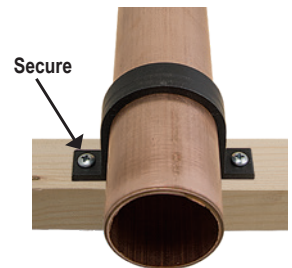
**Step 2:** Secure one side of Cush-a-Glide with a fastener of your choice



**Step 3:** Simply glide tube or pipe through the Cush-a-Glide to desired position



**Step 4:** Fasten second side of the Cush-a-Glide



| Part No. | Pipe, Hose or Tube Size | Size          | Dimensions – inches |               |               |              |               |
|----------|-------------------------|---------------|---------------------|---------------|---------------|--------------|---------------|
|          |                         |               | A                   | B             | L             | T Thickness  | W             |
| CAGB04   | 1/4"                    | 0.245" (6mm)  | 0.500" (13mm)       | 1.000" (25mm) | 1.465" (37mm) | 0.110" (3mm) | 0.375" (10mm) |
| CAGB06   | 3/8"                    | 0.370" (9mm)  |                     | 1.125" (29mm) | 1.590" (40mm) |              |               |
| CAGB08   | 1/2"                    | 0.495" (13mm) |                     | 1.250" (32mm) | 1.715" (44mm) |              |               |
| CAGB10   | 5/8"                    | 0.620" (16mm) | 0.563" (14mm)       | 1.500" (38mm) | 2.045" (52mm) | 0.150" (4mm) | 0.500" (13mm) |
| CAGB14   | 7/8"                    | 0.870" (22mm) |                     | 1.750" (44mm) | 2.295" (58mm) |              |               |
| CAGB18   | 1 1/8"                  | 1.120" (28mm) | 0.625" (16mm)       | 2.125" (54mm) | 2.730" (69mm) | 0.180" (5mm) | 0.625" (16mm) |
| CAGB20   | 1 1/4"                  | 1.250" (32mm) |                     | 2.250" (57mm) | 2.855" (73mm) |              |               |
| CAGB22   | 1 3/8"                  | 1.370" (35mm) |                     | 2.375" (60mm) | 2.980" (76mm) |              |               |
| CAGB26   | 1 5/8"                  | 1.620" (41mm) |                     | 2.625" (67mm) | 3.230" (82mm) |              | 0.750" (19mm) |
| CAGB34   | 2 1/8"                  | 2.120" (54mm) | 3.125" (79mm)       | 3.730" (95mm) |               |              |               |



## Quick-Clip

**Quick-Clip's** unique one-piece composite polyamide alloy design combines strength with light weight. It will overcome the problems of using cable ties for piping, electrical, optical and network cabling.

- Quick-Clip locates easily on 3/8" rod
- No breaks in insulation material
- Fast and easy installation, saves time and money
- Single handed installation
- Manufactured from a composite polyamide, tested from -40°F to + 275°F, (-40°C to +135°C) makes it ideal for network cables
- Studding panel inserts.



Slide onto threaded rod, twist to engage. Insert pipe and clip to lock.



| Part No. | Standard Copper | Metric Copper | Copper Tube                 |                             | Condensate Drain |
|----------|-----------------|---------------|-----------------------------|-----------------------------|------------------|
|          | (no insulation) |               | with 3/8" (10mm) Insulation | with 1/2" (13mm) Insulation |                  |
| QC12     | 3/4"            | -             | -                           | -                           | -                |
| QC14     | 7/8"            | 22mm          | -                           | -                           | yes              |
| QC16     | 1"              | -             | 1/4" tube                   | -                           | -                |
| QC18     | 1 1/8"          | 28mm          | 3/8" tube                   | -                           | -                |
| QC20     | 1 1/4"          | -             | 1/2" tube                   | 1/4" tube                   | -                |
| QC22     | 1 3/8"          | -             | 5/8" tube                   | 3/8" tube                   | yes              |
| QC24     | 1 1/2"          | -             | 7/8" tube                   | 5/8" tube                   | -                |
| QC26     | 1 5/8"          | 42mm          | 1 1/8" tube                 | 3/4" tube                   | yes              |
| QC32     | 2"              | -             | -                           | 7/8" tube                   | -                |
| QC34     | 2 1/8"          | 54mm          | 1 3/8" tube                 | 1 1/8" tube                 | yes              |

Inside diameter: Certain clips have two or more positions to accommodate both metric and standard sizes

## Cush-A-Grip

### FEATURES:

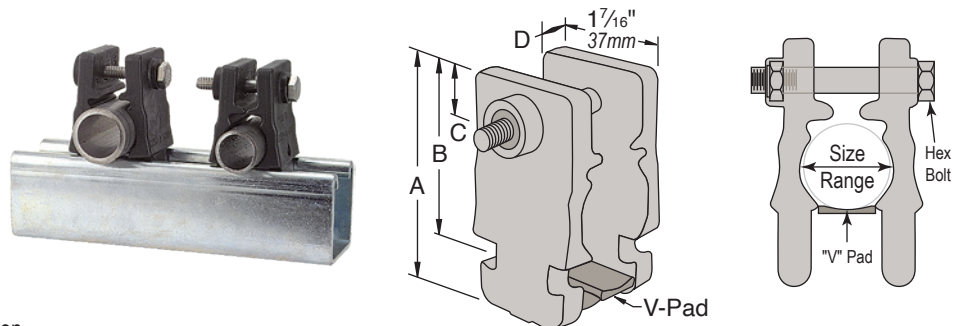
- Ten sizes of tube, five sizes of pipe
- Diameters from .25" to 1.31"

### ADVANTAGES:

- Reduces inventory SKU's
- Simplifies take-offs and requirements on projects using both tube and pipe sizes
- Easy installation, non-conducting
- Permissible outdoors
- Temp. range: -40°F to +380°F (-40°C to 193°C)
- No galvanic reaction, Will not rust

### BENEFITS:

- Lowers overall inventory costs
- Works with screw or nut driver
- Resists vibration
- Use in place of steel clamps with steel tube
- Multi-environmental
- Covers a wide range of applications and maintains thermal barrier
- For use on copper tube
- Use in place of stainless, aluminum, PVC or hot dipped galvanized clamps



| Part No. | O.D. Tube Sizes |        | Pipe Sizes | Metric Sizes | Diameters (in) |
|----------|-----------------|--------|------------|--------------|----------------|
| CG-10    | 1/4"            | 3/8"   | 1/2"       | 1/4"         | 6mm – 14mm     |
| CG-20    | 5/8"            | 3/4"   | 7/8"       | 3/8" – 1/2"  | 15mm – 22mm    |
| CG-30    | 7/8"            | 1"     | 1-1/8"     | 3/4"         | 22mm – 28mm    |
| CG-40    | 1"              | 1-1/8" | 1-1/4"     | 3/4" – 1"    | 26mm – 32mm    |

| Part No. | Nominal Pipe Size | Dimensions         |                    |                 |                | Hex Head Cap Screw & Lock Nut |
|----------|-------------------|--------------------|--------------------|-----------------|----------------|-------------------------------|
|          |                   | "A"                | "B"                | "C"             | "D"            |                               |
| CG-10    | 1/4"              | 1-15/16"<br>(49mm) | 1-3/8"<br>(35mm)   | 3/8"<br>(10mm)  | 3/16"<br>(5mm) | 1/4"-20 x 1-1/2"              |
| CG-20    | 3/8"              | 2-3/8" (60mm)      | 1-5/8"<br>(41mm)   | 7/16"<br>(11mm) | 1/4"<br>(6mm)  | 1/4"-20 x 2"                  |
| CG-30    | 1/2"              | 2-9/16"<br>(65mm)  | 1-13/16"<br>(46mm) | 7/16"<br>(11mm) | 5/16"<br>(8mm) | 1/4"-20 x 2"                  |
| CG-40    | 3/4"              | 2-11/16"<br>(68mm) | 1-15/16"<br>(49mm) | 7/16"<br>(11mm) | 5/16"<br>(8mm) | 1/4"-20 x 2"                  |



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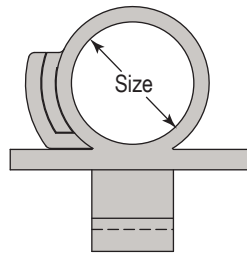


## Cush-A-Clip®



A Simple, Economical, Lightweight Hanger For Supporting Tubing

- Manufactured from polyamide alloy
- U.L. Rated
- Sizes from 3/8" to 1 1/8"
- One piece design makes installation a snap.
- No nuts to tighten, no parts to lose.
- Temperatures from -40°F to 275°F (-40°C to 135°C)
- Secure but non-tightening design allows for expansion, greatly reducing joint fractures

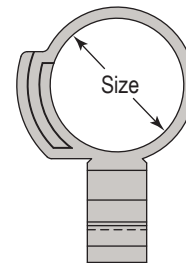


| Part No.  | Tube O.D.     |
|-----------|---------------|
| RPC-3/8   | 3/8" (10mm)   |
| RPC-1/2   | 1/2" (13mm)   |
| RPC-5/8   | 5/8" (16mm)   |
| RPC-3/4   | 3/4" (19mm)   |
| RPC-7/8   | 7/8" (22mm)   |
| RPC-1-1/8 | 1-1/8" (29mm) |

## Cush-A-Click

The great advantage with the **Cush-A-Click** is it retains an unbroken vapor barrier seal, eliminating the problem of sweating on metal fittings. The Cush-A-Click is ideal for the installation of refrigeration systems allowing the barrier seal to run the length of the pipe work without cutting the insulation material. The Cush-A-Click quickly secures both the pipe and the insulation.

- Time and labor savings
- Simple, secure installation of refrigeration and plumbing pipe work
- No break insulation material
- Corrosion resistance
- Light weight

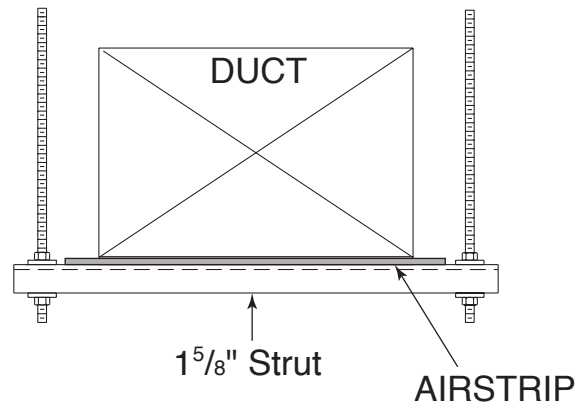


| Part No. | Standard Copper | Metric Copper | Copper Tube                 |                             | Condensate Drain |
|----------|-----------------|---------------|-----------------------------|-----------------------------|------------------|
|          | (no insulation) |               | with 3/8" (10mm) Insulation | with 1/2" (13mm) Insulation |                  |
| CAC12    | 3/4"            | -             | -                           | -                           | -                |
| CAC14    | 7/8"            | 22mm          | -                           | -                           | yes              |
| CAC16    | 1"              | -             | 1/4" tube                   | -                           | -                |
| CAC18    | 1 1/8"          | 28mm          | 3/8" tube                   | -                           | -                |
| CAC20    | 1 1/4"          | -             | 1/2" tube                   | 1/4" tube                   | -                |
| CAC22    | 1 3/8"          | -             | 5/8" tube                   | 3/8" tube                   | yes              |
| CAC24    | 1 1/2"          | -             | 7/8" tube                   | 5/8" tube                   | -                |
| CAC26    | 1 5/8"          | 42mm          | 1 1/8" tube                 | 3/4" tube                   | yes              |
| CAC32    | 2"              | -             | -                           | 7/8" tube                   | -                |
| CAC34    | 2 1/8"          | 54mm          | 1 3/8" tube                 | 1 1/8" tube                 | yes              |

Inside diameter: Certain clips have two or more positions to accommodate both metric and standard sizes



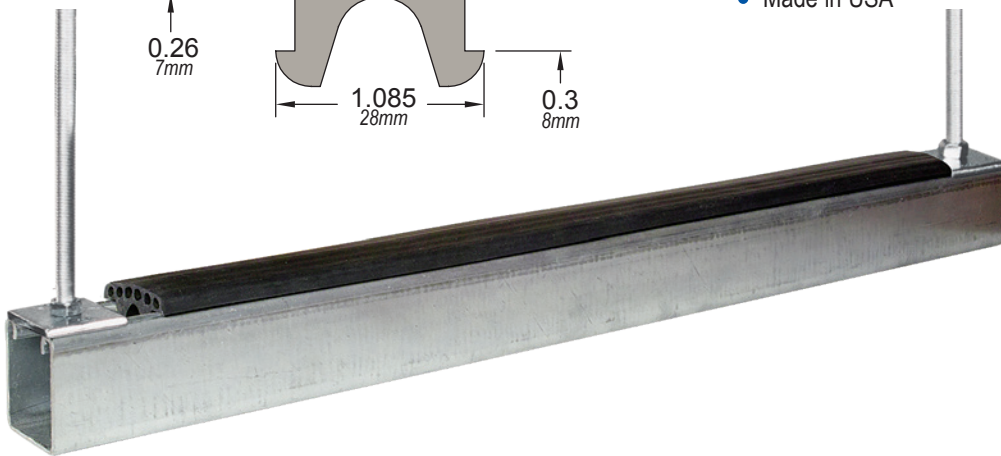
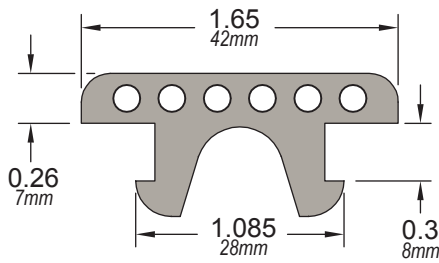
## AIRSTRIP®



The AIRSTRIP is designed to dampen the noise and vibration that can occur between piping or duct work and the supporting channel. Made from 64 Durometer Santoprene, the AIRSTRIP 1 is light weight, dependable, and long-lasting.

| Part No. | Max. Load Lbs. per Lineal In. |             | Length |      |
|----------|-------------------------------|-------------|--------|------|
|          | Lbs.                          | (kg/25.4mm) | Ft.    | (m)  |
| AS1      | 40                            | 18.1        | 10     | 3.05 |

- Temp Range: -40°F to 250°F (-40°C to 121°C)
- Available in 10' (3m) lengths
- Santoprene UL94HB rated
- Made in USA



Installs simply by pushing into place



To remove, squeeze the tabs at the end and push up



## Cush-A-Strip™

- Manufactured from a thermoplastic elastomer, Cush-A-Strip is designed for use from -50°F to 275°F.
- Easy Stocking – Packaged in 20 foot rolls in an E-Z dispenser box for convenience in handling and storage. **Cush-A-Strip roll part number is S-716**
- Easy Measuring – Marked in 1/4" increments for fast measuring and cutting, while eliminating waste.
- Lock-lip edges ensure that Cush-A-Strip will remain in place with a balanced grip.
- Clamps ordered separately. They are available with a standard bolt and nylon lock nut in steel (electro-dichromate), and stainless steel, in sizes ranging from 1/4" tube to 6" pipe.



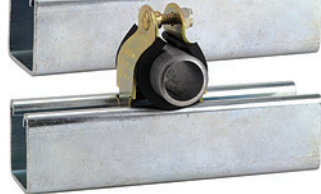
(1) Cut appropriate length strip using the cutting schedule shown on right.



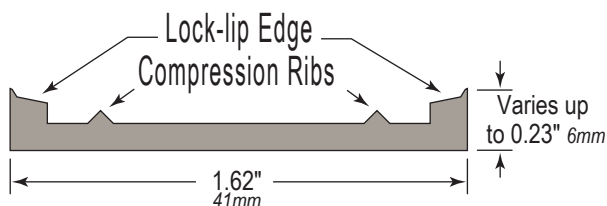
(2) Place the pipe on the Cush-A-Strip



(3) Insert the clamps in the strut



(4) Tighten the clamps.



| Cush-A-Strip™ Cutting Guide |                          |                     |                |                  |                  |
|-----------------------------|--------------------------|---------------------|----------------|------------------|------------------|
| Clamp Part No.              |                          | Dimensions (Inches) |                |                  |                  |
| Gold Plated Steel           | Stainless Steel Type 304 | Clamp Size O.D.     | Tube Size O.D. | Pipe Size (Nom.) | Cutting Schedule |
| TG008C                      | NS008                    | 1/2"                | 1/4"           | –                | 7/8" (22mm)      |
| TG010C                      | NS010                    | 5/8"                | 3/8"           | –                | 1-1/8" (29mm)    |
| TG012C                      | NS012                    | 3/4"                | 1/2"           | 1/4"             | 1-1/2" (38mm)    |
| TG014C                      | NS014                    | 7/8"                | 5/8"           | 3/8"             | 2" (51mm)        |
| TG016C                      | NS016                    | 1"                  | 3/4"           | –                | 2-1/4" (57mm)    |
| TG018C                      | NS018                    | 1-1/8"              | 7/8"           | 1/2"             | 3" (76mm)        |
| TG020C                      | NS020                    | 1-1/4"              | 1"             | 3/4"             | 3-1/4" (83mm)    |
| TG022C                      | NS022                    | 1-3/8"              | 1-1/8"         | –                | 3-5/8" (92mm)    |
| TG024C                      | NS024                    | 1-1/2"              | 1-3/16"        | –                | 3-7/8" (98mm)    |
| TG024C                      | NS024                    | 1-1/2"              | 1-1/4"         | 1"               | 4" (102mm)       |
| TG026C                      | NS026                    | 1-5/8"              | 1-3/8"         | –                | 4-1/2" (114mm)   |
| NG028C                      | CS028                    | 1-3/4"              | 1-1/2"         | –                | 4-7/8" (124mm)   |
| NG030C                      | CS030                    | 1-7/8"              | 1-5/8"         | 1-1/4"           | 5-1/4" (133mm)   |
| NG032C                      | CS032                    | 2"                  | 1-3/4"         | –                | 5-1/2" (140mm)   |
| NG034C                      | CS034                    | 2-1/8"              | 1-7/8"         | 1-1/2"           | 6" (152mm)       |
| NG036C                      | CS036                    | 2-1/4"              | 2"             | –                | 6-3/8" (162mm)   |
| NG038C                      | CS038                    | 2-3/8"              | 2-1/8"         | –                | 6-3/4" (172mm)   |
| NG040C                      | CS040                    | 2-1/2"              | 2-1/4"         | –                | 7-1/4" (184mm)   |
| NG042C                      | CS042                    | 2-5/8"              | 2-3/8"         | 2"               | 7-1/2" (191mm)   |
| NG044C                      | CS044                    | 2-3/4"              | 2-1/2"         | –                | 8" (203mm)       |
| NG048C                      | CS048                    | 3"                  | 2-3/4"         | –                | 8-3/4" (222mm)   |
| NG050C                      | CS050                    | 3-1/8"              | 2-7/8"         | 2-1/2"           | 9-1/4" (235mm)   |
| NG054C                      | CS054                    | 3-1/4"              | 3"             | –                | 9-1/2" (241mm)   |
| NG060C                      | CS060                    | 3-3/4"              | 3-1/2"         | 3"               | 11" (279mm)      |
| NG068C                      | CS068                    | 4-1/4"              | 4"             | 3-1/2"           | 12-1/4" (311mm)  |
| NG076C                      | CS076                    | 4-3/4"              | 4-1/2"         | 4"               | 14" (356mm)      |
| NG092C                      | CS092                    | 5-3/4"              | –              | 5"               | 15-1/2" (394mm)  |
| NG110C                      | CS110                    | 6-7/8"              | –              | 6"               | 18-1/2" (470mm)  |

\* Gold Plated Steel Clamps Supplied with Fixed Stud and Nylon Lock Nut  
 \* Stainless Steel Clamps Supplied with fixed Stud and Nylon Lock Nut from 1/2" through 1-3/4" Sizes and 1-7/8" through 6-7/8" Sizes are supplied with a Loose Bolt and Hex Nut

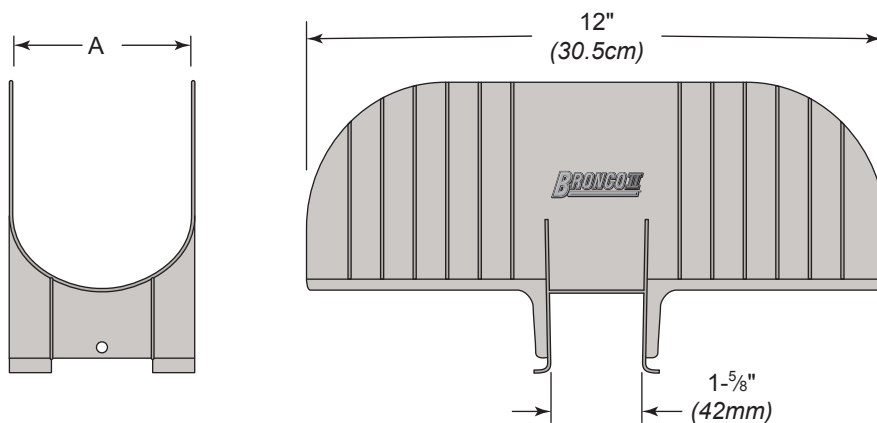






- Universal mounting feature allows secure fit on either side of channel.
- Molded with self-tapping screw location hole
- UL Classified 2043 (25/50) for use in plenums and air handling systems
- Manufactured from high-strength Polypropylene Copolymer
- Extra strength ribbed side walls
- No assembly or tools required
- Enhanced safety lip prevents insulation crushing and tearing from pipe movement
- UV resistant
- Available in black and white to match insulation
- Excellent finished appearance
- Made in the U.S.A.

| Part No.               |                        | A             |
|------------------------|------------------------|---------------|
| Black                  | White                  |               |
| <a href="#">225B2S</a> | <a href="#">225W2S</a> | 2.25" (57mm)  |
| <a href="#">325B2S</a> | <a href="#">325W2S</a> | 3.25" (82mm)  |
| <a href="#">425B2S</a> | <a href="#">425W2S</a> | 4.25" (108mm) |
| <a href="#">525B2S</a> | <a href="#">525W2S</a> | 5.25" (133mm) |
| <a href="#">625B2S</a> | <a href="#">625W2S</a> | 6.25" (159mm) |
| <a href="#">825B2S</a> | <a href="#">825W2S</a> | 8.25" (204mm) |





| Copper Tube Size | Insulation Thickness |             |           |               |           |
|------------------|----------------------|-------------|-----------|---------------|-----------|
|                  | 1/2" (13mm)          | 3/4" (19mm) | 1" (25mm) | 1 1/2" (38mm) | 2" (50mm) |
| 3/8" (9.5 mm)    | 225B2S               | 225B2S      | 325B2S    | 425B2S        | 525B2S    |
| 1/2" (13 mm)     |                      |             |           |               |           |
| 5/8" (16 mm)     |                      |             |           |               |           |
| 3/4" (19 mm)     |                      |             |           |               |           |
| 7/8" (22 mm)     |                      |             |           |               |           |
| 1-1/8" (29 mm)   | 325B2S               | 325B2S      | 425B2S    | 525B2S        | 625B2S    |
| 1-3/8" (35 mm)   |                      |             |           |               |           |
| 1-5/8" (41 mm)   |                      |             |           |               |           |
| 2-1/8" (54 mm)   | 425B2S               | 425B2S      | 525B2S    | 625B2S        | 825B2S    |
| 2-5/8" (67 mm)   |                      |             |           |               |           |
| 3-1/8" (79 mm)   | 525B2S               | 525B2S      | 625B2S    | 825B2S        | 825B2S    |
| 3-5/8" (92 mm)   |                      |             |           |               |           |
| 4-1/8" (105 mm)  | 525B2S               | 625B2S      | 625B2S    | 825B2S        | 825B2S    |

Available in Black (B) or White (W) to match insulation

| Schedule 40/80 Pipe Size | Insulation Thickness |             |           |               |           |
|--------------------------|----------------------|-------------|-----------|---------------|-----------|
|                          | 1/2" (13mm)          | 3/4" (19mm) | 1" (25mm) | 1 1/2" (38mm) | 2" (50mm) |
| 1/4" (6.4 mm)            | 225B2S               | 225B2S      | 325B2S    | 425B2S        | 525B2S    |
| 3/8" (9.5 mm)            |                      |             |           |               |           |
| 1/2" (13 mm)             |                      |             |           |               |           |
| 3/4" (19 mm)             |                      |             |           |               |           |
| 1" (25 mm)               | 325B2S               | 325B2S      | 425B2S    | 525B2S        | 625B2S    |
| 1-1/4" (31 mm)           |                      |             |           |               |           |
| 1-1/2" (38 mm)           |                      |             |           |               |           |
| 2" (50 mm)               | 425B2S               | 425B2S      | 525B2S    | 625B2S        | 825B2S    |
| 2-1/2" (63 mm)           |                      |             |           |               |           |
| 3" (75 mm)               | 525B2S               | 525B2S      | 625B2S    | 825B2S        | 825B2S    |
| 3-1/2" (88 mm)           |                      |             |           |               |           |
| 4" (100 mm)              |                      |             |           |               |           |

Available in Black (B) or White (W) to match insulation





# Snap-A-Saddle Pro™



Insulated Pipe Saddle for Mounting on Strut

Its revolutionary design allows for pipe movement within the support, eliminating common problems related to traditional pipe saddles: rotation, displacement and thermal insulation damages.

## Breakthrough Innovation

Snap-a-Saddle Pro™ is designed to accommodate movement of the pipes generated by thermal expansion and vibration. With its unique sliding design at each end, Snap-a-Saddle Pro easily and effectively cradles and protects pipes allowing them to expand and vibrate without damaging their insulation.

Snap-a-Saddle Pro permanently eliminates insulation tears, refrigerant leaks, condensing, and freezing. It holds up to the highest quality standards of the industry.



## Maintains Pipe Insulation Properties

Eliminates displacement and/or failing of pipe support, leading to refrigerant leaks

## Maintains Liquid Line In Place

Eliminates refrigerant leaks

## Fastest Installation In The Industry

60% faster than metal or plastic shields

80% faster than clamps and collars

## Keeps Thermal Bridge Intact

Eliminates insulation compression

| Copper Tube Size | Insulation Thickness |             |           |               |           |
|------------------|----------------------|-------------|-----------|---------------|-----------|
|                  | 1/2" (13mm)          | 3/4" (19mm) | 1" (25mm) | 1 1/2" (38mm) | 2" (50mm) |
| 1/4" (6.4 mm)    | SAS225               | SAS225      | SAS325    | SAS425        | SAS525    |
| 3/8" (9.5 mm)    |                      |             |           |               |           |
| 1/2" (13 mm)     |                      |             |           |               |           |
| 5/8" (16 mm)     |                      |             |           |               |           |
| 3/4" (19 mm)     |                      |             |           |               |           |
| 7/8" (22 mm)     |                      |             |           |               |           |
| 1 1/8" (29 mm)   | SAS325               | SAS325      | SAS425    | SAS525        | SAS625    |
| 1 3/8" (35 mm)   |                      |             |           |               |           |
| 1 5/8" (41 mm)   |                      |             |           |               |           |
| 2 1/8" (54 mm)   | SAS425               | SAS425      | SAS525    | SAS625        | SAS825    |
| 2 5/8" (67 mm)   |                      |             |           |               |           |
| 4 1/8" (105 mm)  | SAS525               | SAS525      | SAS625    | SAS825        | -         |
| 5 1/8" (130 mm)  |                      |             |           |               |           |

| Schedule 40/80 Pipe Size | Insulation Thickness |             |           |               |           |
|--------------------------|----------------------|-------------|-----------|---------------|-----------|
|                          | 1/2" (13mm)          | 3/4" (19mm) | 1" (25mm) | 1 1/2" (38mm) | 2" (50mm) |
| 1/4" (6.4 mm)            | SAS225               | SAS225      | SAS325    | SAS425        | SAS525    |
| 3/8" (9.5 mm)            |                      |             |           |               |           |
| 1/2" (13 mm)             |                      |             |           |               |           |
| 3/4" (19 mm)             |                      |             |           |               |           |
| 1" (25 mm)               |                      |             |           |               |           |
| 1 1/4" (31 mm)           |                      |             |           |               |           |
| 1 1/2" (38 mm)           | SAS325               | SAS325      | SAS425    | SAS525        | SAS625    |
| 2" (50 mm)               |                      |             |           |               |           |
| 2 1/2" (63 mm)           |                      |             |           |               |           |
| 3" (75 mm)               | SAS425               | SAS425      | SAS525    | SAS625        | SAS825    |
| 3 1/2" (88 mm)           |                      |             |           |               |           |
| 4" (100 mm)              | SAS525               | SAS525      | SAS625    | SAS825        | -         |
| 5" (127 mm)              |                      |             |           |               |           |
| 6" (152 mm)              | SAS625               | SAS625      | -         | -             | -         |



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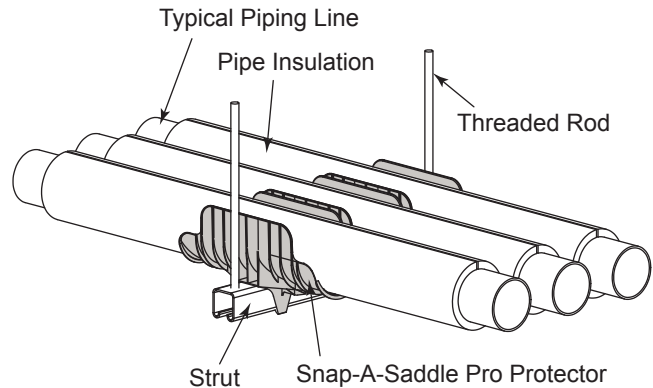
Rooftop Supports

Fiberglass System

Technical Data

### Snap-A-Saddle Pro™

Insulated Pipe Saddle



#### Applications:

Refrigeration, Air Conditioning and Plumbing

#### Installation:

Tool-Free, "Clips" directly on standard 1-5/8" x 1-5/8" (41mm x 41mm) strut channel.

Suited for horizontal pipe installation.

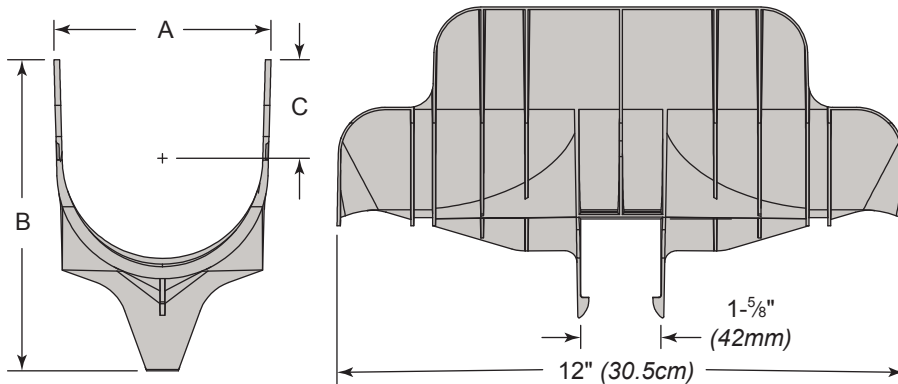
#### Certification:

UL classified for USA (UL-723 (ASTM E 84)) and ULC listed for Canada (ULC-S102.2).

#### Material:

Polypropylene copolymer

- UV resistant
- Operating temperature -40° to 178°F (-40° to 81°C)
- Paintable (preserves mechanical properties even after painting)
- Non-adhesive surface for linear expansion of thermal insulation. SAS825B & SAS825W have 20% glass filled material for additional strength.



| Part No. |         | A             | B              | C             |
|----------|---------|---------------|----------------|---------------|
| Black    | White   |               |                |               |
| SAS225B  | SAS225W | 2.25" (57mm)  | 4.56" (116mm)  | 1.09" (28mm)  |
| SAS325B  | SAS325W | 3.25" (82mm)  | 5.57" (140mm)  | 1.59" (40mm)  |
| SAS425B  | SAS425W | 4.25" (108mm) | 6.59" (167mm)  | 2.09" (53mm)  |
| SAS525B  | SAS525W | 5.25" (133mm) | 7.57" (192mm)  | 2.58" (66mm)  |
| SAS625B  | SAS625W | 6.25" (159mm) | 8.57" (218mm)  | 3.09" (78mm)  |
| SAS825B  | SAS825W | 8.25" (204mm) | 11.04" (280mm) | 4.27" (108mm) |



### Snap-A-Saddle Pro Multi™ Adapts To Your Needs!

Allows use on various sizes of strut, H-Beam, floor-mount, Clevis and steel angle mountings  
Adapts to different suspension systems, simply by swapping clipping adapters.



#### Breakthrough Innovation

Piping installations require different types of suspension systems, which vary in size. This new design adapts to various sizes of strut, H-Beam, floor-mount, clevis hangers, and steel angles. Thanks to the interchangeable bottom adapters, Snap-a-Saddle Pro Multi eliminates the hassle and headaches of compatibility problems you've been dealing with for so long!

#### Standardize Your Installation

Snap-a-Saddle Pro Multi™ makes the installer's job easier while standardizing piping installations and improving appearance. Whether you are looking at new or existing installations, the Snap-a-Saddle Pro Multi clip-on adapters will adapt to both the suspension system and the selected size of saddle core.

#### One Part Suits Multiple Uses

Simply change adapters

#### Fastest Installation In The Industry

40% Faster than metal or plastic shields

80% Faster than clamps and collars

#### Keeps Thermal Bridge Intact

Prevents insulation damage and compression

#### Tool-Free Installation

One simple click is all it takes

#### Maintains Pipe Insulation Properties

Permanent solution to displacement and/or falling of pipe support

#### Maintains Liquid Line In Place

Eliminates refrigerant leaks

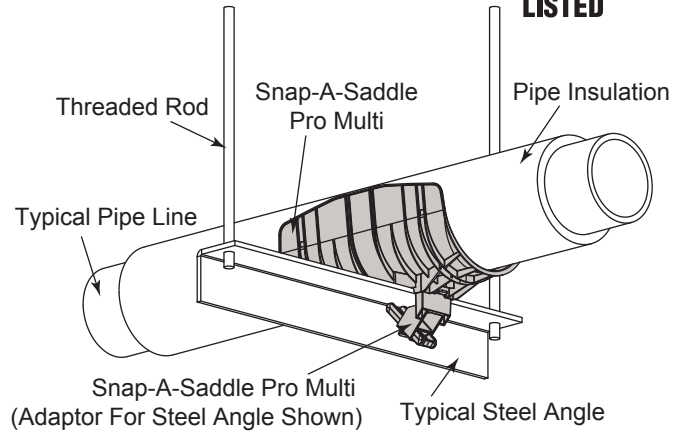






### Snap-A-Saddle Pro Multi™

Adaptable Insulated Pipe Saddle



#### Applications:

Plumbing, Mechanical, Refrigeration, and Air Conditioning

#### Installation:

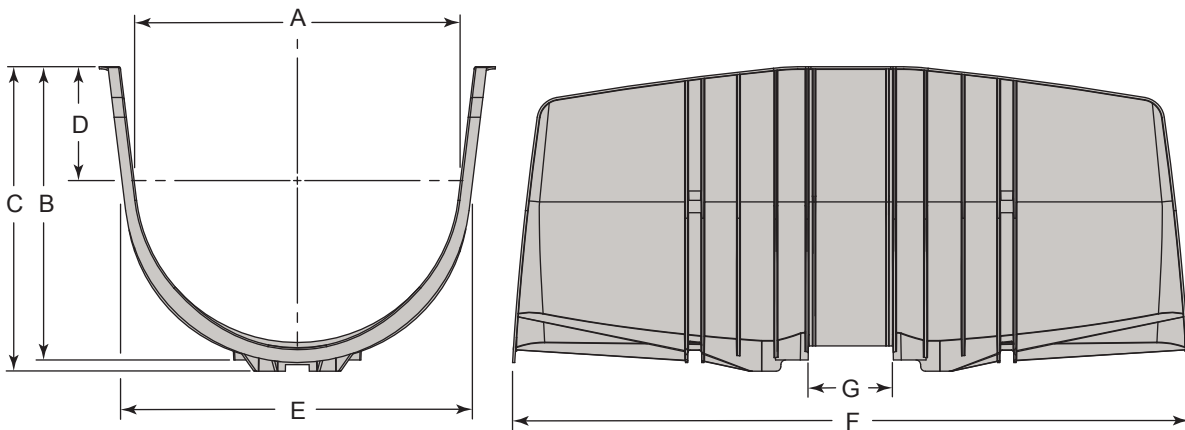
Tool-Free, suited for horizontal pipe installation.

#### Certification:

UL classified for USA (UL-723 (ASTM E 84)) and ULC listed for Canada (ULC-S102.2).

#### Material:

- Polypropylene 20% glass filled
- UV resistant
- Operating temperature -40° to 178°F (-40° to 81°C)
- Paintable (preserves mechanical properties even after painting)
- Non-adhesive surface for linear expansion of thermal insulation.



| Part No.<br>Grey | A              | B             | C             | D            | E              | F<br>Length | G            |              |
|------------------|----------------|---------------|---------------|--------------|----------------|-------------|--------------|--------------|
| SASM250G         | 2.34" (60mm)   | 1.92" (49mm)  | 2.33" (59mm)  | 0.40" (10mm) | 2.45" (62mm)   | 12" (305mm) | 1.20" (30mm) |              |
| SASM350G         | 3.45" (88mm)   | 3.17" (81mm)  | 3.58" (91mm)  | 1.09" (28mm) | 3.56" (90mm)   |             | 1.48" (38mm) |              |
| SASM450G         | 4.50" (114mm)  | 3.89" (99mm)  | 4.19" (106mm) | 1.17" (30mm) | 4.61" (117mm)  |             | 1.75" (44mm) |              |
| SASM550G         | 5.56" (140mm)  | 4.90" (124mm) | 5.20" (132mm) | 1.66" (42mm) | 5.75" (146mm)  |             | 1.78" (45mm) |              |
| SASM650G         | 6.46" (165mm)  | 5.96" (151mm) | 6.26" (159mm) | 2.18" (55mm) | 6.75" (171mm)  | 18" (457mm) | 2.08" (53mm) |              |
| SASM850G         | 8.65" (219mm)  | 7.83" (199mm) | 8.13" (207mm) | 3.04" (77mm) | 8.75" (222mm)  |             | 23" (584mm)  | 2.26" (57mm) |
| SASM1050G        | 10.65" (271mm) | 7.80" (198mm) | 8.10" (206mm) | 1.76" (45mm) | 10.59" (269mm) |             |              |              |
| SASM1250G        | 12.65" (321mm) | 9.18" (233mm) | 9.48" (241mm) | 2.14" (54mm) | 12.52" (318mm) |             |              |              |

The use of the Stabilizer Adapter with 10" SASM1050G and 12" SASM1250G Saddles is suggested for additional support.

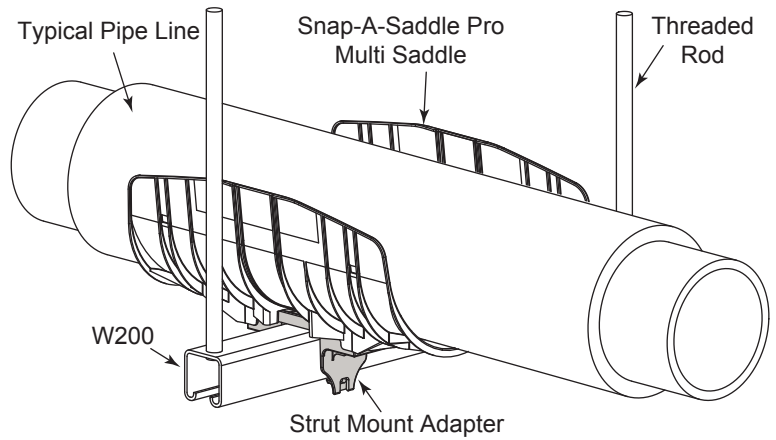
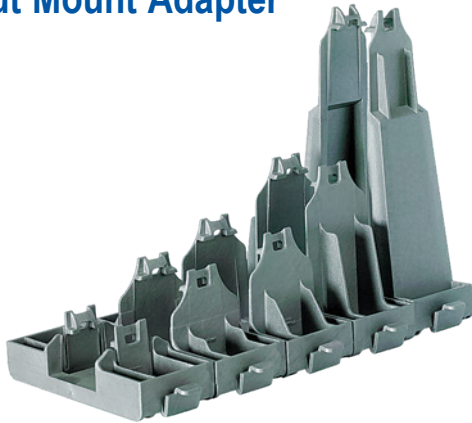


# Snap-A-Saddle Pro Multi™ Adapters

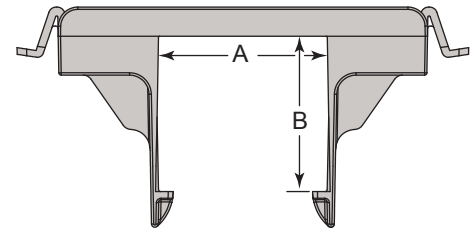


Adaptable Insulated Pipe Saddle

## Strut Mount Adapter



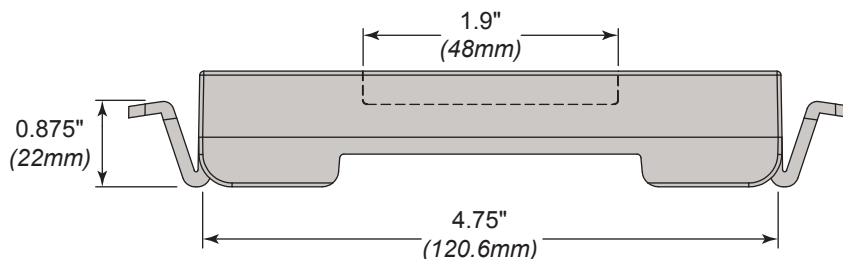
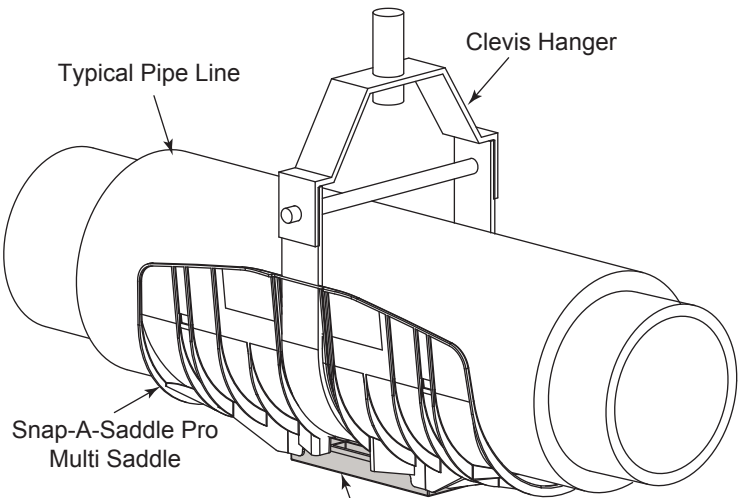
| Part No.    | A              | B               | Use with Channel Sizes                           |
|-------------|----------------|-----------------|--|
| SASM30X30G  | 1-3/16" (30mm) | 1-3/16" (30mm)  | -  |
| SASM31X43G  | 1-5/64" (31mm) | 1-11/16" (43mm) | -  |
| SASM40X38G  | 1-9/16" (40mm) | 1-1/2" (38mm)   | -  |
| SASM42X20G  | 1-5/8" (41mm)  | 13/16" (21mm)   | 1-5/8" x 13/16"                                  |
| SASM42X42G  |                | 1-5/8" (41mm)   | 1-5/8" x 1-5/8",<br>1-5/8" x 13/16" Back-to-Back |
| SASM42X84G  |                | 3-1/4" (165mm)  | 1-5/8" x 1-5/8" Back-to-Back,<br>1-5/8" x 3-1/4" |
| SASM42X166G |                | 6-1/2" (165mm)  | 1-5/8" x 3-1/4" Back-to-Back                     |
| SASM4D21G   | 2-1/8" (54mm)  | 1-1/16" (27mm)  | -  |
| SASM4D22G   |                | 2-1/8" (54mm)   | -  |



The use of the Stabilizer Adapter with 10" SASM1050G and 12" SASM1250G Saddles is suggested for additional support.

## SASMCLEVISG

Clevis Mount Adapter



Clevis Mount Adapter

SnapShock™ can be attached to Clevis Mount Adapter.

Stabilizer can be attached with Clevis Mount Adapter

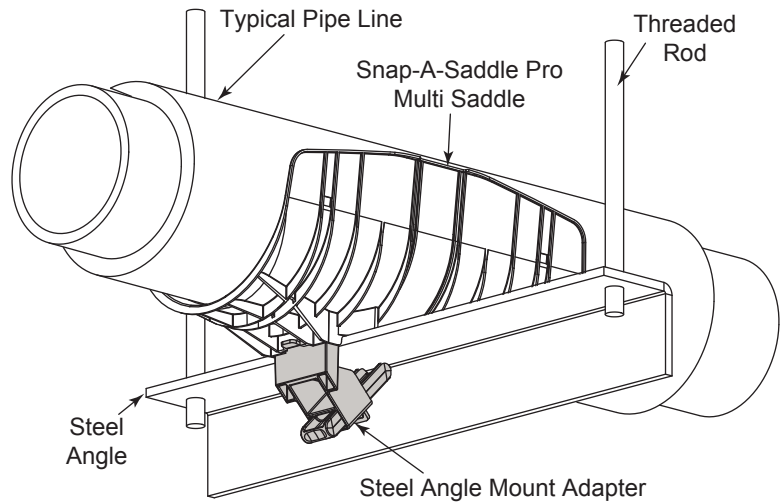
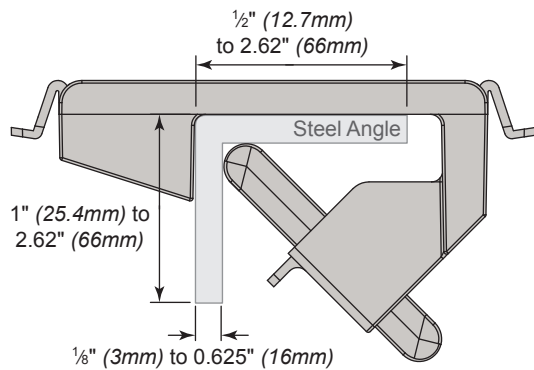
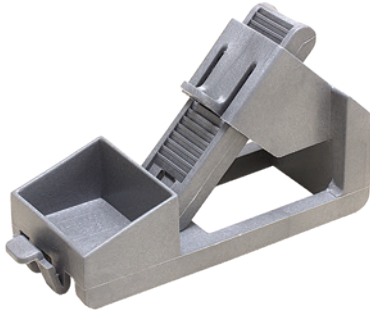
Clevis Mount Adapter is utilized with Floor Adapter assembly.





### SASM2-5/8G

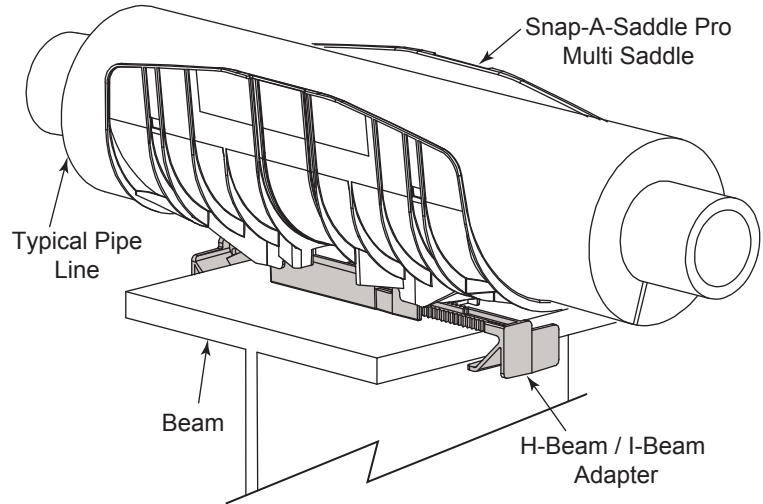
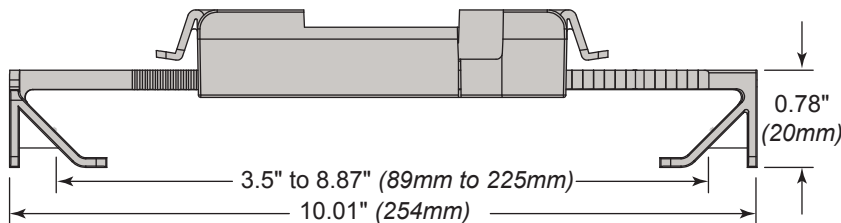
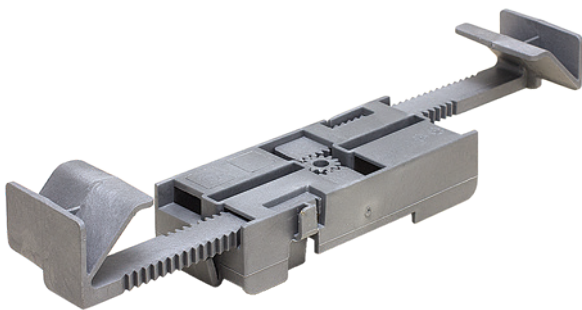
Steel Angle Mount Adapter



The use of the Stabilizer Adapter with 10" SASM1050G and 12" SASM1250G Saddles is suggested for additional support.

### SASMHBEAMG

H-Beam / I-Beam Adapter



The use of the Stabilizer Adapter with 10" SASM1050G and 12" SASM1250G Saddles is suggested for additional support.

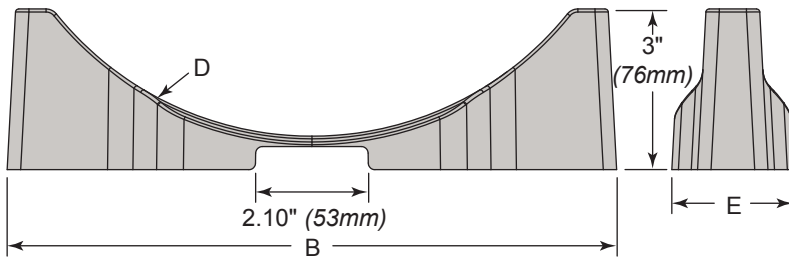


# Snap-A-Saddle Pro Multi™ Adapters

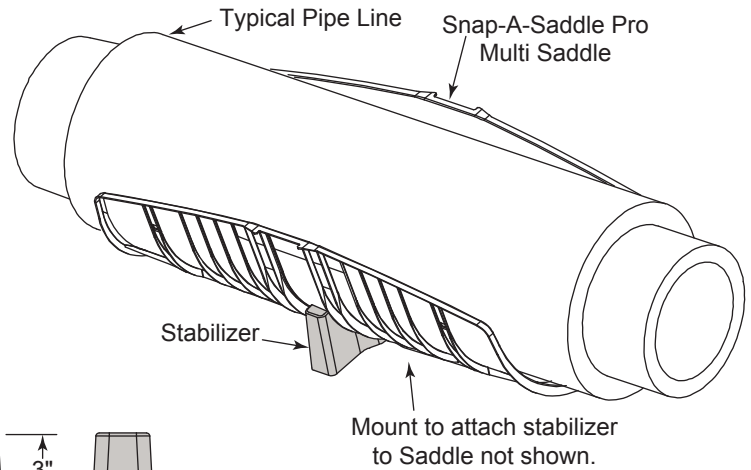


Adaptable Insulated Pipe Saddle

## Stabilizer



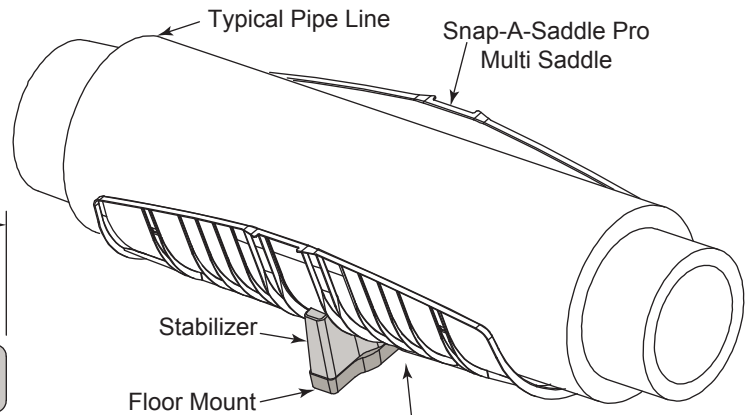
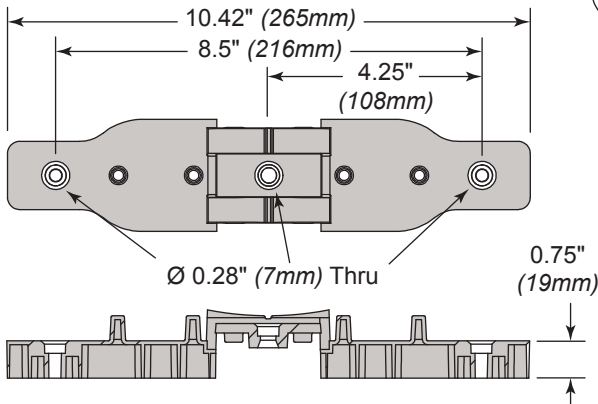
| Part Number   | B              | D     | E            | Compatible Only with Saddle |
|---------------|----------------|-------|--------------|-----------------------------|
| SASMSTAB1050G | 10.34" (263mm) | R5.13 | 2.24" (57mm) | SASM1050G                   |
| SASMSTAB1250G | 11.38" (289mm) | R6.13 | 2.28" (58mm) | SASM1250G                   |



Stabilizer is attached to Saddle with Strut Mount, Steel Angle, H & I-Beam and Clevis Mount adapters.

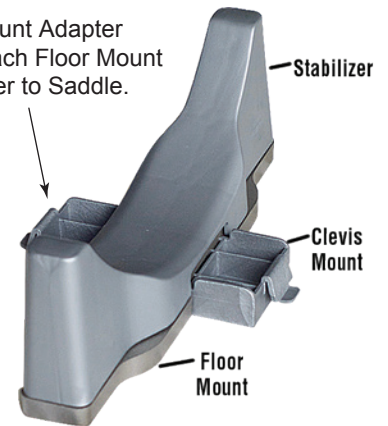
The use of this Stabilizer Adapter with 10" SASM1050G and 12" SASM1250G Saddles is suggested for additional support.

## Floor Adapter

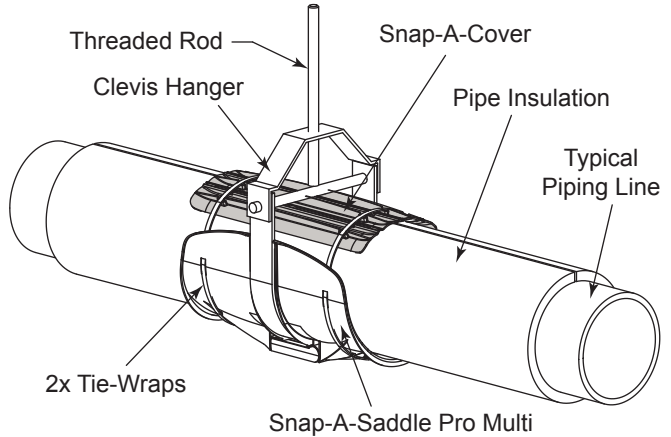
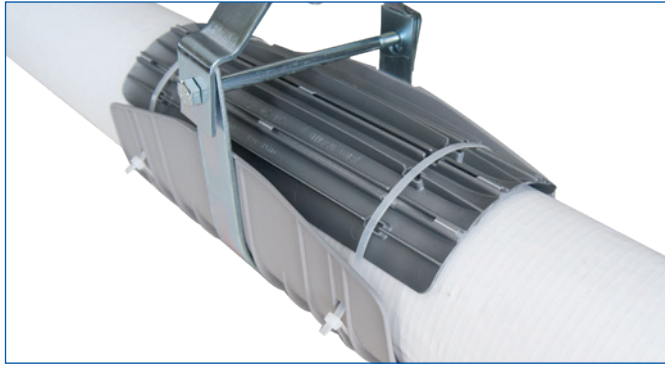
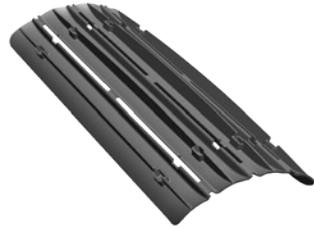


Floor Mount works with 10" SASM1050G and 12" SASM1250G Saddles. Requires the Stabilizer and Clevis Mount Adapters as shown in photo to the right.

| Part Number     | Compatible Only with Saddle | Requires a Stabilizer         | Requires a Clevis Mount |
|-----------------|-----------------------------|-------------------------------|-------------------------|
| SASMFLOOR10-12G | SASM1050G & SASM1250G       | SASMSTAB1050G & SASMSTAB1250G | SASMCLEVISG             |



**Snap-A-Cover™**  
Insulated Pipe Saddle Cover



**Applications:**

Refrigeration, Air Conditioning and Plumbing

**Installation:**

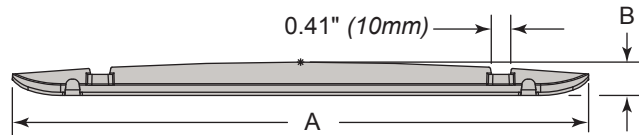
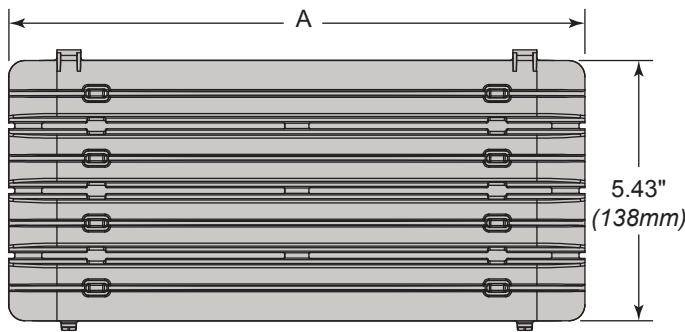
Tool-Free, Suited for vertical or horizontal pipe installation.

**Certification:**

UL classified for USA (UL-723 (ASTM E 84)) and ULC listed for Canada (ULC-S102.2).

**Material:**

- Polypropylene
- UV resistant
- Operating temperature -40° to 178°F (-40° to 81°C)
- Paintable (preserves mechanical properties even after painting)
- Non-adhesive surface for linear expansion of thermal insulation.



| Part Number    | Color | Use With Snap-A-Saddle Pro Part Numbers            | A           | B            |
|----------------|-------|--|-------------|--------------|
| <b>SACX25B</b> | Black | <b>SAS225B, SAS325B, SAS425B, SAS525B, SAS625B</b> | 12" (305mm) | 0.83" (21mm) |
| <b>SACX25W</b> | White | <b>SAS225W, SAS325W, SAS425W, SAS525W, SAS625W</b> |             |              |
| <b>SAC825B</b> | Black | <b>SAS825B</b>                                     |             |              |
| <b>SAC825W</b> | White | <b>SAS825W</b>                                     |             |              |

| Part Number    | Color | Use With Snap-A-Saddle Pro Multi Part Numbers           | A           | B              |
|----------------|-------|---|-------------|----------------|
| <b>SACX50G</b> | Grey  | <b>SASM250G, SASM350G, SASM450G, SASM550G, SASM650G</b> | 12" (305mm) | 0.83" (21mm)   |
| <b>SACL50G</b> | Grey  | <b>SASM850G, SASM1050G, SASM1250G</b>                   | 18" (457mm) | 0.77" (19.5mm) |



## Magnetic Shock Detection Device

### SnapShock™

#### Applications:

Refrigeration, Air Conditioning and Plumbing

#### Installation:

Tool-Free, clips directly into the Clevis adapter of the Snap-A-Saddle Pro Multi™

#### Certification:

UL classified for USA (UL-723 (ASTM E 84) and ULC listed for Canada (ULC-S102.2).

#### Material:

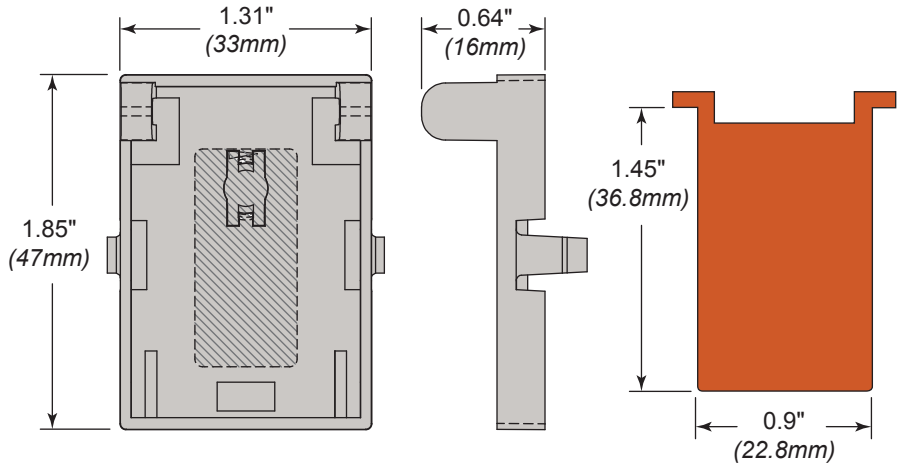
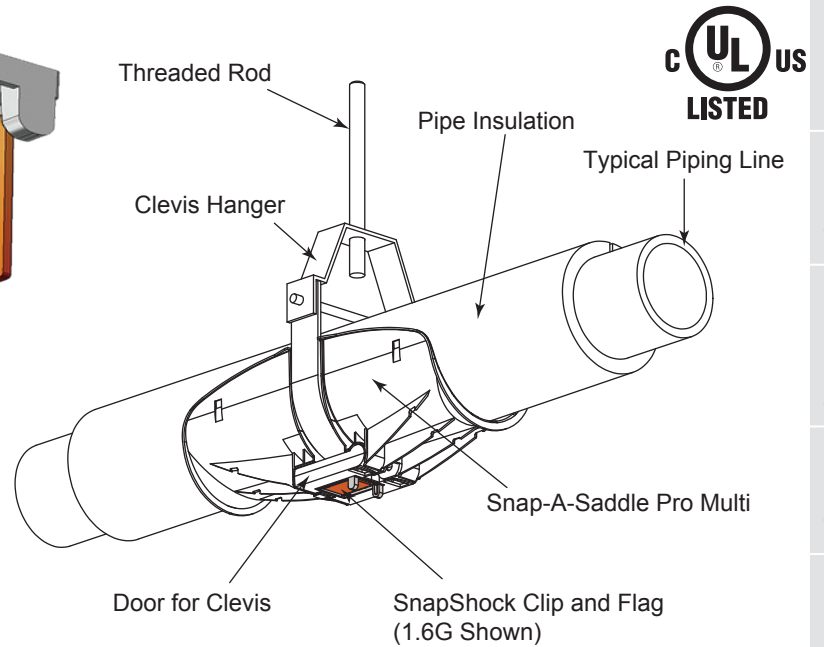
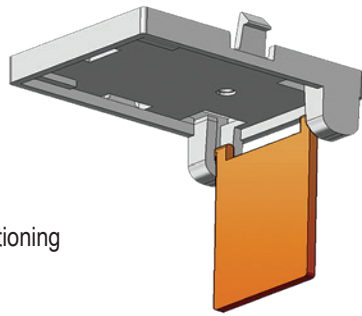
- Polypropylene 20% glass filled
- UV resistant
- Operating temperature -40° to 178°F (-40° to 81°C)



Each color coded flag will trigger at a different shock intensity. Flags are easily interchangeable for different shock tolerance. Flag thickness varies by shock intensity.

- 1.8G (Downward Allowable Stress Design)
- 1.6G (Downward Allowable Stress Design)
- 1.4G (Downward Allowable Stress Design)

SnapShock is sold by the set. Each set is supplied complete with all three flags.



**Install Flag**



**Set Flag to Arm**

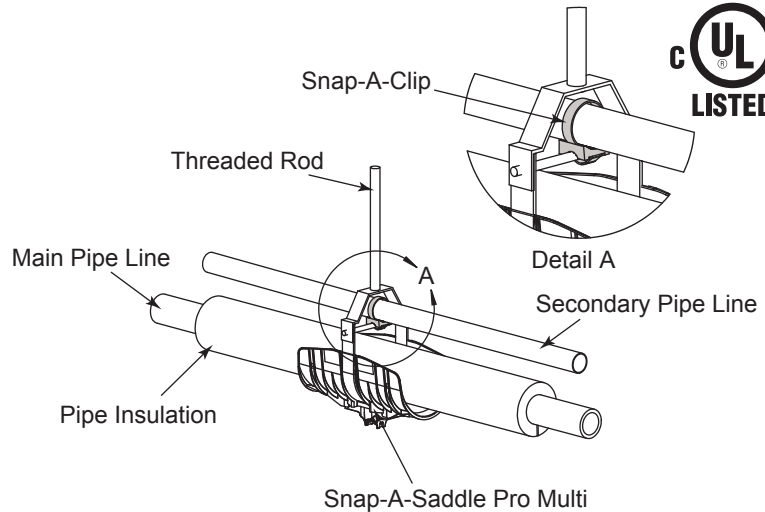


**Activated Flag Indicates Shock Issue**





### Snap-A-Clip™



### Applications:

Refrigeration, Air Conditioning, Plumbing, Electrical and Communication

### Installation:

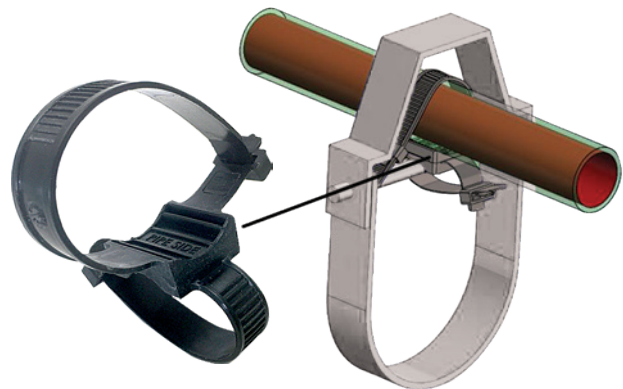
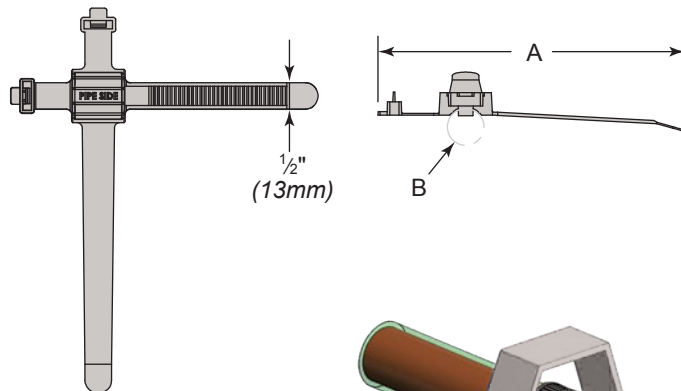
Tool-Free, Tie-wrap style

### Certification:

UL classified for USA (UL-723 (ASTM E 84)) and ULC listed for Canada (ULC-S102.2).

### Material:

- Polypropylene
- UV resistant
- Operating temperature -40° to 178°F (-40° to 81°C)
- Paintable (preserves mechanical properties even after painting)



| Part Number | For Pipe OD      | A             | B            |
|-------------|------------------|---------------|--------------|
| SASP050B    | 1/4" - 1/2"      | 5.62" (143mm) | 0.68" (17mm) |
| SASP125B    | 5/8" - 1-1/4"    | 5.77" (147mm) | 1.25" (32mm) |
| SASP175B    | 1-5/16" - 1-3/4" | 6.20" (158mm) | 1.75" (45mm) |
| SASP225B    | 1-3/4" - 2-1/4"  | 6.20" (158mm) | 1.71" (44mm) |

| Bolt Diameter   | Pipe Diameter |             |             |             |           |               |               |               |           |               |
|-----------------|---------------|-------------|-------------|-------------|-----------|---------------|---------------|---------------|-----------|---------------|
|                 | 1/4" (6mm)    | 1/2" (13mm) | 5/8" (16mm) | 3/4" (19mm) | 1" (25mm) | 1-1/4" (39mm) | 1-1/2" (38mm) | 1-3/4" (45mm) | 2" (51mm) | 2-1/4" (57mm) |
| 1/4" (6.3mm)    | SASP050B      | SASP050B    | -           | -           | -         | -             | -             | -             | -         | -             |
| 5/16" (7.9mm)   |               |             | -           | -           | -         | -             | -             | -             | -         | -             |
| 3/8" (9.5mm)    |               |             | SASP125B    | SASP125B    | SASP125B  | SASP125B      | -             | -             | -         | -             |
| 1/2" (12.7mm)   |               |             | -           | -           | -         | -             | SASP175B      | -             | -         | -             |
| 11/16" (17.5mm) |               |             | -           | -           | -         | -             | -             | SASP225B      | SASP225B  | SASP225B      |





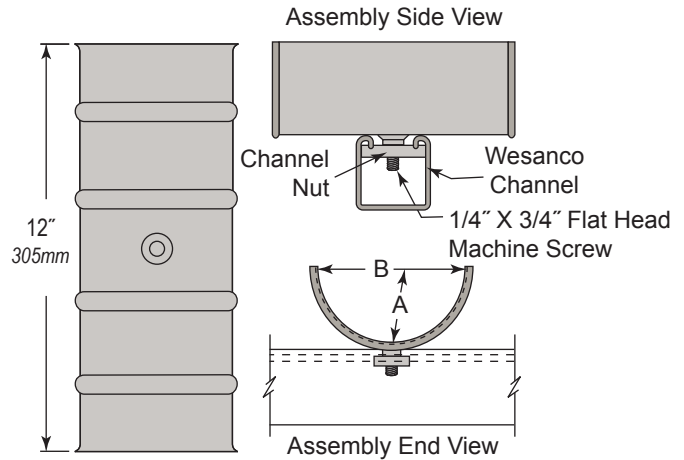
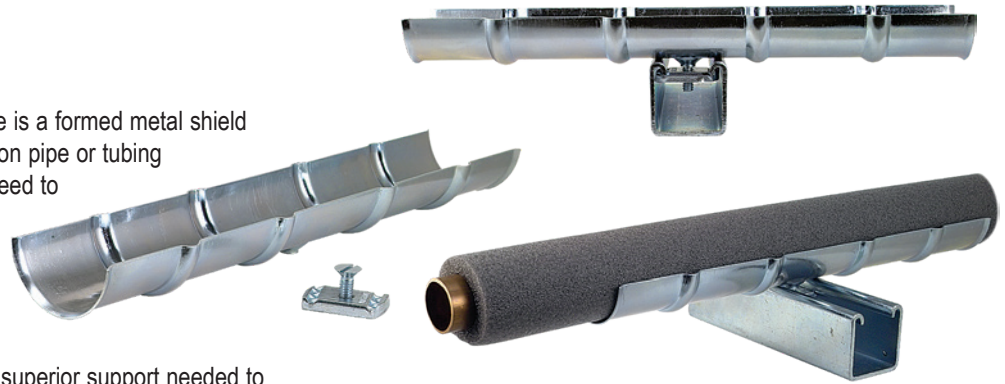
## Saddle-Up

### Insulation Saddle

The Saddle-Up Pipe Insulation Saddle is a formed metal shield designed to allow insulated refrigeration pipe or tubing to pass through the support without need to compromise the vapor barrier and protects from crushing or damage at hanger and support locations. Made from 20 gauge electro-galvanized steel the ribbed design along its 12" (305mm) length offers the superior support needed to spread out loading on insulation which reduces the potential for internal cavity creation between the pipe and insulation. The strut mounting option provides a time tested secure and safe attachment method so there is no need for other tie downs to the support.

#### FEATURES:

- Shipped with all necessary hardware to attach to strut or any other industry standard 1 5/8" (41mm) wide strut channel.
- Features flared edges to protect pipe insulation jacketing.
- Each Saddle individually marked with part number
- Counter Sunk attachment Hole and Flat Head Machine Screw prevent possible damage to insulation.
- Electro-Galvanized Steel provides excellent rust protection and has no exposed fabricated edges.



| Dimensions (Inches) |                |               | 1/2" (13mm) Insulation |                    | 3/4" (19mm) Insulation |                    | 1" (25mm) Insulation |                    | 1 1/2" (38mm) Insulation |                    |
|---------------------|----------------|---------------|------------------------|--------------------|------------------------|--------------------|----------------------|--------------------|--------------------------|--------------------|
| Part No.            | B Width        | A Radius      | OD Tube Size           | OD With Insulation | OD Tube Size           | OD With Insulation | OD Tube Size         | OD With Insulation | OD Tube Size             | OD With Insulation |
| SD150               | 1 1/2" (38mm)  | 3/4" (19mm)   | 3/8"                   | 1 3/8" (35mm)      | -                      | -                  | -                    | -                  | -                        | -                  |
|                     |                |               | 1/2"                   | 1 1/2" (38mm)      | -                      | -                  | -                    | -                  | -                        | -                  |
| SD200               | 2" (51mm)      | 1" (25mm)     | 5/8"                   | 1 5/8" (41mm)      | 3/8"                   | 1 7/8" (48mm)      | -                    | -                  | -                        | -                  |
|                     |                |               | 3/4"                   | 1 3/4" (45mm)      | 1/2"                   | 2" (51mm)          | -                    | -                  | -                        | -                  |
|                     |                |               | 7/8"                   | 1 7/8" (48mm)      | -                      | -                  | -                    | -                  | -                        | -                  |
| SD250               | 2 1/2" (64mm)  | 1 1/4" (32mm) | 1 1/8"                 | 2 1/8" (54mm)      | 5/8"                   | 2 1/8" (54mm)      | 3/8"                 | 2 3/8" (60mm)      | -                        | -                  |
|                     |                |               | 1 3/8"                 | 2 3/8" (60mm)      | 3/4"                   | 2 1/4" (57mm)      | 1/2"                 | 2 1/2" (64mm)      | -                        | -                  |
|                     |                |               | -                      | -                  | 7/8"                   | 2 3/8" (60mm)      | -                    | -                  | -                        | -                  |
|                     |                |               | -                      | -                  | -                      | -                  | -                    | -                  | -                        | -                  |
| SD300               | 3" (76mm)      | 1 1/2" (38mm) | 1 5/8"                 | 2 5/8" (67mm)      | 1 1/8"                 | 2 5/8" (67mm)      | 5/8"                 | 2 5/8" (67mm)      | -                        | -                  |
|                     |                |               | -                      | -                  | 1 3/8"                 | 2 7/8" (73mm)      | 3/4"                 | 2 3/4" (70mm)      | -                        | -                  |
|                     |                |               | -                      | -                  | -                      | -                  | 7/8"                 | 2 7/8" (73mm)      | -                        | -                  |
| SD350               | 3 1/2" (89mm)  | 1 3/4" (45mm) | 2 1/8"                 | 3 1/8" (79mm)      | 1 5/8"                 | 3 1/8" (79mm)      | 1 1/8"               | 3 1/8" (79mm)      | 3/8"                     | 3 3/8" (86mm)      |
|                     |                |               | 2 3/8"                 | 3 3/8" (86mm)      | -                      | -                  | 1 3/8"               | 3 3/8" (86mm)      | 1/2"                     | 3 1/2" (89mm)      |
|                     |                |               | 2 5/8"                 | 3 5/8" (86mm)      | 2 1/8"                 | 3 5/8" (92mm)      | 1 5/8"               | 3 5/8" (92mm)      | 5/8"                     | 3 5/8" (92mm)      |
| SD450               | 4 1/2" (114mm) | 2 1/4" (57mm) | -                      | -                  | 2 3/8"                 | 3 7/8" (98mm)      | -                    | -                  | 3/4"                     | 3 3/4" (95mm)      |
|                     |                |               | -                      | -                  | -                      | -                  | -                    | -                  | 7/8"                     | 3 7/8" (98mm)      |
|                     |                |               | 3 1/8"                 | 4 1/8" (105mm)     | 2 5/8"                 | 4 1/8" (105mm)     | 2 1/8"               | 4 1/8" (105mm)     | 1 1/8"                   | 4 1/8" (105mm)     |
|                     |                |               | -                      | -                  | -                      | -                  | 2 3/8"               | 4 3/8" (111mm)     | 1 3/8"                   | 4 3/8" (111mm)     |
| SD550               | 5 1/2" (140mm) | 2 3/4" (70mm) | 3 5/8"                 | 4 5/8" (118mm)     | 3 3/8"                 | 4 5/8" (118mm)     | 2 5/8"               | 4 5/8" (118mm)     | 1 5/8"                   | 4 5/8" (118mm)     |
|                     |                |               | 4 1/8"                 | 5 1/8" (130mm)     | 3 5/8"                 | 5 1/8" (130mm)     | 3 1/8"               | 5 1/8" (130mm)     | 2 1/8"                   | 5 1/8" (130mm)     |
|                     |                |               | -                      | -                  | -                      | -                  | -                    | -                  | 2 3/8"                   | 5 3/8" (143mm)     |
| SD650               | 6 1/2" (165mm) | 3 1/4" (83mm) | -                      | -                  | 4 1/8"                 | 5 5/8" (143mm)     | 3 5/8"               | 5 5/8" (143mm)     | 2 5/8"                   | 5 5/8" (143mm)     |
|                     |                |               | -                      | -                  | -                      | -                  | 4 1/8"               | 6 1/8" (156mm)     | 3 1/8"                   | 6 1/8" (156mm)     |

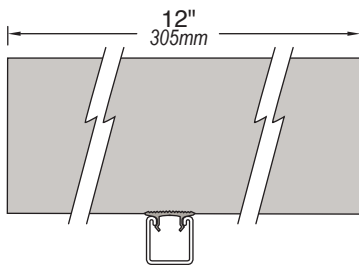
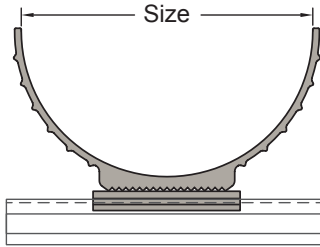
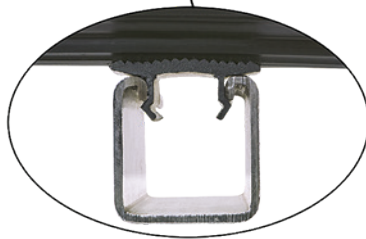


## Snap-A-Saddle®

Strut Mount Plastic Insulation Saddle



Snaps easily into channel



| Part No. |       | Nominal Inside Opening |
|----------|-------|------------------------|
| Black    | White |                        |
| SB225    | SW225 | 2¼" (57mm)             |
| SB325    | SW325 | 3¼" (83mm)             |
| SB425    | SW425 | 4¼" (108mm)            |
| SB525    | SW525 | 5¼" (133mm)            |
| SB625    | SW625 | 6¼" (159mm)            |
| SB825    | SW825 | 8⅝" (219mm)            |



- Temp Range: -50° to 275°F (-46° to 135° C)
- Available in both black and white
- UL94-HB1 Rated TPV Material
- Made in USA
- Easy Installation
- Standard 12" (305mm) lengths. Special lengths available upon request



| Snap-A-Saddle Size Guide - Copper Tubing |                      |           |           |            |           |
|--|----------------------|-----------|-----------|------------|-----------|
| Tubing Size                              | Insulation Thickness |           |           |            |           |
|  | ½" (13mm)            | ¾" (19mm) | 1" (25mm) | 1½" (38mm) | 2" (51mm) |
| ¼"                                       | S*225                | S*225     | S*325     | S*425      | S*525     |
| ⅜"                                       |                      |           |           |            |           |
| ½"                                       |                      |           |           |            |           |
| ⅝"                                       |                      |           |           |            |           |
| ¾"                                       |                      |           |           |            |           |
| 1"                                       |                      |           |           |            |           |
| 1¼"                                      | S*325                | S*325     | S*425     | S*525      | S*625     |
| 1½"                                      |                      |           |           |            |           |
| 2"                                       | S*425                | S*425     | S*525     | S*625      | S*825     |
| 2½"                                      |                      |           |           |            |           |
| 3"                                       |                      |           |           |            |           |
| 3½"                                      |                      |           |           |            |           |
| 4"                                       | S*525                | S*625     | S*625     | S*825      | S*825     |

\* Add "B" for Black or "W" for White

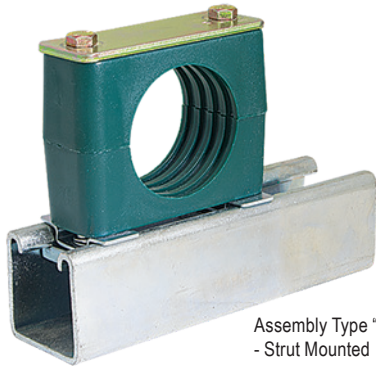
| Snap-A-Saddle Size Guide - Schedule 40/80 Pipe |                      |           |           |            |           |       |       |       |
|--|----------------------|-----------|-----------|------------|-----------|-------|-------|-------|
| Pipe Size                                      | Insulation Thickness |           |           |            |           |       |       |       |
|  | ½" (13mm)            | ¾" (19mm) | 1" (25mm) | 1½" (38mm) | 2" (51mm) |       |       |       |
| ¼"   | S*225                | S*225     | S*325     | S*425      | S*525     |       |       |       |
| ⅜"   |                      |           |           |            |           |       |       |       |
| ½"   |                      |           |           |            |           |       |       |       |
| ¾"   |                      | S*325     |           |            |           | S*425 | S*525 | S*625 |
| 1"   |                      |           |           |            |           |       |       |       |
| 1¼"  |                      |           |           |            |           |       |       |       |
| 1½"  | S*325                | S*425     | S*525     | S*625      |           |       |       |       |
| 2"   |                      |           |           |            |           |       |       |       |
| 2½"  | S*425                | S*425     | S*525     | S*625      | S*825     |       |       |       |
| 3"   |                      |           |           |            |           |       |       |       |
| 3½"  |                      |           |           |            |           |       |       |       |
| 4"   | S*525                | S*625     | S*625     | S*825      | S*825     |       |       |       |

\* Add "B" for Black or "W" for White

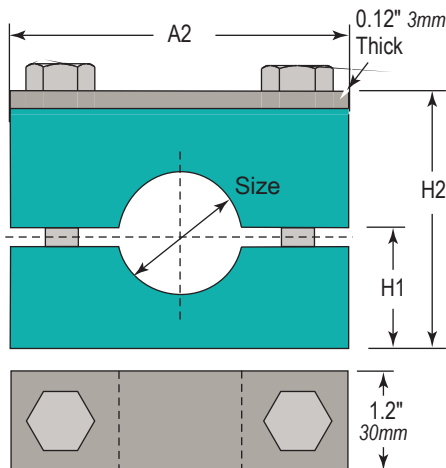
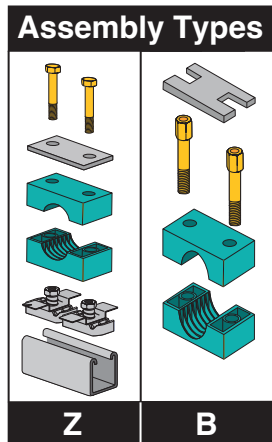
Snap-A-Saddle® is manufactured under U.S. patents #D753468 and Canadian patents #163550



## Standard Series Beta Clamps



Assembly Type "Z"  
- Strut Mounted



- Cushions are Polypropylene (Green Color)
- Recommended for systems with less than 1,500 psi (103 bar) without dynamic loads.
- Use for standard hydraulics, general pipe construction, electrical cables, and general duty piping applications subject to moderate levels of shock and vibration.
- Aluminum cushions are used in higher heat applications up to 500°F (260°C)

**INSTALLATION** - Refer to technical data section for complete installation guide.

| Group  | Part No. *  | Tube Size             | Pipe Size             | Metric Size      | Dimensions     |               |                | Bolt                |
|--------|---|-----------------------|-----------------------|------------------|----------------|---------------|----------------|---------------------|
|        |   |                       |                       |                  | A2             | H1            | H2             |                     |
| S1     | S1004   | 1/4" (0.250)          | -                     | -                | 1.34"<br>(34)  | 0.50"<br>(13) | 1.13"<br>(29)  | 1/4"-20 x<br>1 1/4" |
|        | S1006   | 3/8" (0.375)          | -                     | -                |                |               |                |                     |
|        | SM1006  | -                     | -                     | 6mm              |                |               |                |                     |
|        | S1007   | -                     | 1/8" (0.405)          | -                |                |               |                |                     |
|        | SM1008  | -                     | -                     | 8mm              |                |               |                |                     |
|        | SM1012  | -                     | -                     | 12mm             |                |               |                |                     |
| S2     | S2008   | 1/2" (0.500)          | -                     | -                | 1.57"<br>(40)  | 0.64"<br>(16) | 1.42"<br>(36)  | 1/4"-20 x<br>1 3/8" |
|        | S2009   | -                     | 1/4" (0.540)          | -                |                |               |                |                     |
|        | S2010   | 5/8" (0.625)          | -                     | -                |                |               |                |                     |
|        | S2011   | -                     | 3/8" (0.675)          | -                |                |               |                |                     |
|        | SM2014  | -                     | -                     | 14mm             |                |               |                |                     |
|        | SM2015  | -                     | -                     | 15mm             |                |               |                |                     |
| S3     | S3012   | 3/4" (0.750)          | -                     | -                | 1.96"<br>(50)  | 0.68"<br>(17) | 1.49"<br>(38)  | 1/4"-20 x<br>1 1/2" |
|        | S3014   | -                     | 1/2" (0.840)          | -                |                |               |                |                     |
|        | S3015   | 7/8" (0.875)          | -                     | -                |                |               |                |                     |
|        | S3016   | 1" (1.000)            | -                     | -                |                |               |                |                     |
|        | SM3020  | -                     | -                     | 20mm             |                |               |                |                     |
|        | SM3025  | -                     | -                     | 25mm             |                |               |                |                     |
| S4     | S4017   | -                     | 3/4" (1.050)          | -                | 2.28"<br>(58)  | 0.82"<br>(21) | 1.76"<br>(45)  | 1/4"-20 x<br>1 1/4" |
|        | S4018   | 1 1/8" (1.125)        | -                     | -                |                |               |                |                     |
|        | SM4030  | -                     | -                     | 30mm             |                |               |                |                     |
| S5     | S5020   | 1 1/4" (1.250)        | -                     | -                | 2.75"<br>(70)  | 1.13"<br>(29) | 2.40"<br>(61)  | 1/4"-20 x<br>2 1/2" |
|        | S5021   | -                     | 1" (1.315)            | -                |                |               |                |                     |
|        | S5024   | 1 1/2" (1.500)        | -                     | -                |                |               |                |                     |
|        | S5027   | -                     | 1 1/4" (1.660)        | -                |                |               |                |                     |
|        | SM5035  | -                     | -                     | 35mm             |                |               |                |                     |
| S6     | S6028   | 1 3/4" (1.750)        | -                     | -                | 3.38"<br>(86)  | 1.29"<br>(33) | 2.71"<br>(69)  | 1/4"-20 x<br>2 3/4" |
|        | S6030   | -                     | 1 1/2" (1.900)        | -                |                |               |                |                     |
|        | S6032   | 2" (2.000)            | -                     | -                |                |               |                |                     |
| S7     | S7038   | -                     | 2" (2.375)            | -                | 4.75"<br>(121) | 1.88"<br>(48) | 3.93"<br>(100) | 1/4"-20<br>x 4"     |
|        | S7036   | 2 1/4" (2.250)        | -                     | -                |                |               |                |                     |
|        | S7040   | 2 1/2" (2.500)        | -                     | -                |                |               |                |                     |
|        | S7044   | 2 3/4" (2.750)        | -                     | -                |                |               |                |                     |
|        | S7048   | 3" (3.000)            | -                     | -                |                |               |                |                     |
| SUFFIX | *For additional sizes contact factory.<br>Note: Add assembly type to part number. Example: <b>S1004S-SS</b> provides the complete assembly as shown with stainless steel components.<br>NOTE: SM (metric) only available in Steel with Polypropylene (green) cushion. |                       |                       |                  |                |               |                |                     |
|        |   | Components            | Cushion               | Example          |                |               |                |                     |
|        | none  | Steel                 | Polypropylene (green) | <b>S1004S</b>    |                |               |                |                     |
|        | -AL   | Steel                 | Aluminum              | <b>S1004S-AL</b> |                |               |                |                     |
| -SS    | Stainless Steel   | Polypropylene (green) | <b>S1004S-SS</b>      |                  |                |               |                |                     |

**Complete Beta Product Line** - Refer to Foster Quick Disconnects Product Catalog for more information on all available Beta Clamps



Introduction

Channel

Channel Nuts & Hardware

General Fittings

Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

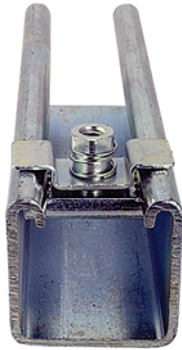
Concrete Inserts

Roofing Supports

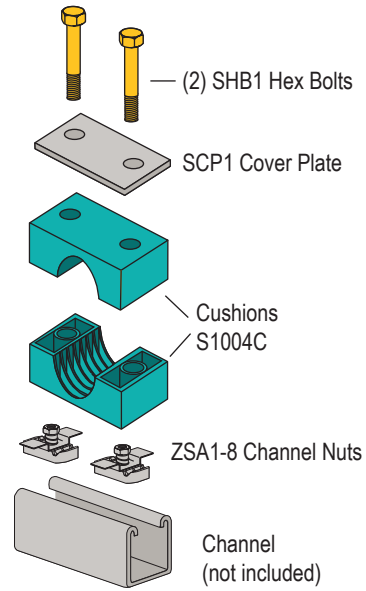
Fiberglass System

Technical Data

## Standard Series Beta Clamps



Channel with ZSA1-8 Nut installed



| Strut Mounted Ordering Example - S1004Z |          |              |
|---|----------|--------------|
| "Z" Assembly Includes                   |          |              |
| Quantity                                | Part No. | Description  |
| 2 Each                                  | SHB1     | Hex Bolts    |
| 1 Each                                  | SCP1     | Cover Plate  |
| 1 Set                                   | S1004C   | Cushions     |
| 2 Each                                  | ZSA1-8   | Channel Nuts |

| STANDARD SERIES COVER PLATE                          |        |                       | STANDARD SERIES SAFETY PLATE                 |  |                   |
|--|--------|-----------------------|--|--|-------------------|
|  | SCP1   | Use with Group S1     |  | SP1  | Use with Group S1 |
|  | SCP2   | Use with Group S2     |  | SP2  | Use with Group S2 |
|  | SCP3   | Use with Group S3     |  | SP3  | Use with Group S3 |
|  | SCP4   | Use with Group S4     |  | SP4  | Use with Group S4 |
|  | SCP5   | Use with Group S5     |  | SP5  | Use with Group S5 |
|  | SCP6   | Use with Group S6     |  | SP6  | Use with Group S6 |
|  | SCP7   | Use with Group S7     |  | SP7  | Use with Group S7 |
| HEX BOLT (Two required per assembly)                 |        |                       | STACKING BOLTS - (Two required per assembly) |  |                   |
|  | SHB1   | Use with Group S1     |  | SB1  | Use with Group S1 |
|  | SHB2   | Use with Group S2     |  | SB2  | Use with Group S2 |
|  | SHB3   | Use with Group S3     |  | SB3  | Use with Group S3 |
|  | SHB4   | Use with Group S4     |  | SB4  | Use with Group S4 |
|  | SHB5   | Use with Group S5     |  | SB5  | Use with Group S5 |
|  | SHB6   | Use with Group S6     |  | SB6  | Use with Group S6 |
|  | SHB7   | Use with Group S7     |  | SB7  | Use with Group S7 |
| STRUT NUT - For connection to Channel (Two required) |        |                       | CHANNEL                                      |  |                   |
|  | ZSA1-8 | Use with Groups S1-S7 | Pages 38 - 41                                | 1 <sup>5</sup> / <sub>8</sub> " x 1 <sup>5</sup> / <sub>8</sub> " (41mm x 41mm)  |                   |
|  |        |                       | Pages 50 - 54                                | 1 <sup>5</sup> / <sub>8</sub> " x 1 <sup>3</sup> / <sub>16</sub> " (41mm x 11mm) |                   |
|  |        |                       | Pages 44 - 46                                | 1 <sup>5</sup> / <sub>8</sub> " x 1" (41mm x 25mm)                               |                   |
|  |        |                       | Pages 47 - 49                                | 1 <sup>5</sup> / <sub>8</sub> " x 7/ <sub>8</sub> " (41mm x 22mm)                |                   |



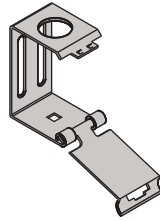
**Complete Beta Product Line - Refer to Foster Quick Disconnects Product Catalog for more information on all available Beta Clamps**



# Electrical Fittings

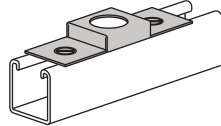
## Fixture Hangers

Pages 200 - 201



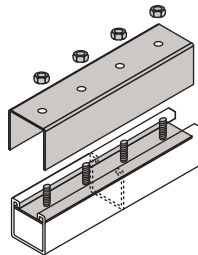
## Conduit Connector

Pages 201 - 202



## Raceway Splice Assemblies

Pages 202 - 204



## Raceway Channel with Knock-Outs



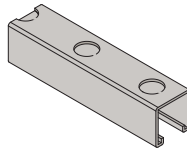
1-5/8" x 2-1/2" 12 Gauge (page 55)

1-5/8" x 1-5/8" 12 Gauge (page 38)

1-5/8" x 1-5/8" 14 Gauge (page 38)

1-5/8" x 1-3/8" 12 Gauge (page 42)

1-5/8" x 13/16" 14 Gauge (page 50)



### Maximum Number of Wires

Also suitable for the number of wires in table below when installed to support and supply electric discharge type lighting fixtures when raceway wiring is suitable for at least 70°C and clearance between fixture and raceway is at least 1/8". In all cases, a snap-in cover is required to complete the raceway enclosure.

Wire Types: R, RH, RU, RW, T, or TW

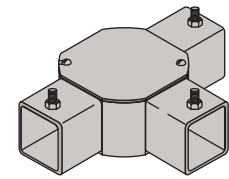
| Wire Size<br>AWG | 1-5/8" x 1-5/8"<br>Channel | 1-5/8" x 1-3/8"<br>Channel | 1-5/8" x 13/16"<br>Channel |
|------------------|----------------------------|----------------------------|----------------------------|
| 14               | 10                         | 10                         | 6                          |
| 12               | 10                         | 10                         | 6                          |
| 10               | 8                          | 6                          | -                          |
| 8                | 6                          | 4                          | -                          |
| 6                | 3                          | 2                          | -                          |

| Electrical Specifications |       |   |
|---------------------------|-------|---|
| Material                  | ASTM  | ASTM Description  |
| Hot Rolled Plate          | A 575 | Steel, sheet and strip, carbon drawing quality, special killed, hot rolled. |
| Fitting (Steel)           | A 366 | Steel carbon, cold rolled sheet, commercial quality structural steel.       |
|                           | A 366 |   |
|                           | A 36  |   |

See page 23 for Material or Finish ordering codes for part numbers.

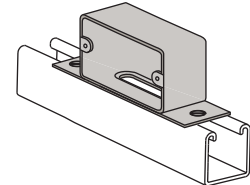
## Junction Boxes

Page 205



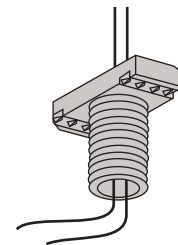
## Receptacle Boxes

Page 206



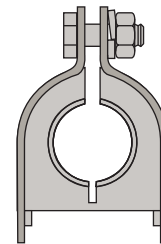
## Accessories

Pages 206 - 207



## Porc-A-Clamp

Page 208

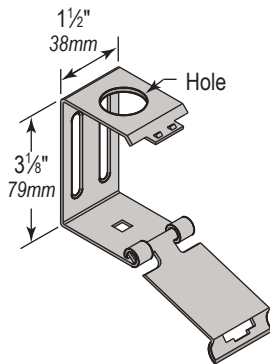


| Electrical Finish Specifications     |  |
|--------------------------------------|--|
| Finish                               | Description  |
| Paint-Green Powder Coating           | A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.   |
| Electroplated                        | Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.  |
| Mill-Galvanized (Pre-Galvanized)     | Galvanized steel used in the manufacture of Channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present. |
| Hot Dip Galvanized After Fabrication | Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications.: ASTM A 123, ASTM A153, or ASTM A386.                      |
| Special Coatings                     | Other commercially available finishes can be supplied per specification when required to protect applications.   |



## Hinged Fluorescent Fixture Hanger

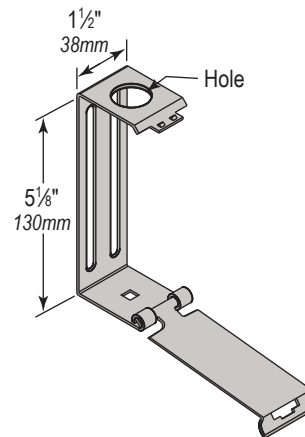
For 1-5/8" Channel



| SPECIFYING Brand & Part No. | Hole Size    | Design Load 12 Ga. Channel | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------|----------------------------|--------------------------------|---------------|
|                             |              |                            | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |              |                            |                                |               |
| W6420                       | 9/16" (14mm) | 120 lbs (0.53 kN)          | VF7106                         | EF10          |

## Hinged Fluorescent Fixture Hanger

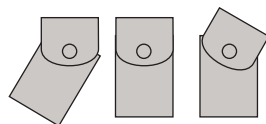
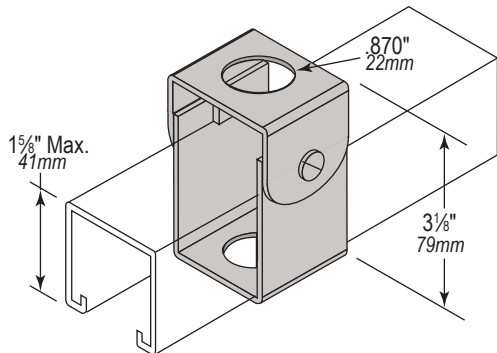
For 3-1/4" Channel



| SPECIFYING Brand & Part No. | Hole Size    | Design Load 12 Ga. Channel | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------|----------------------------|--------------------------------|---------------|
|                             |              |                            | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |              |                            |                                |               |
| W6422                       | 9/16" (14mm) | 120 lbs (0.53 kN)          | VF710611                       | EF11          |

## Hinged Channel Hanger

For 1-5/8" Channel

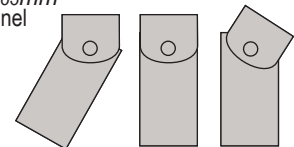
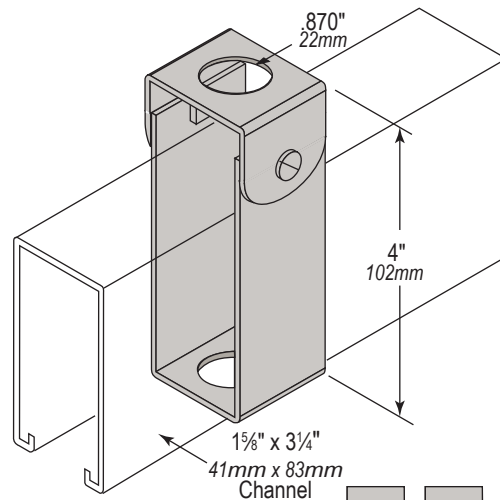


| SPECIFYING Brand & Part No. | Design Load 12 Ga. Channel | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------------------|--------------------------------|---------------|
|                             |                            | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                            |                                |               |
| W6419                       | 120 Lbs. (0.53 kN)         | VF7104                         | EF14          |

## Hinged Channel Hanger

For 3-1/4" Channel

Accepts rod to 7/8" Dia. or 1/2" conduit



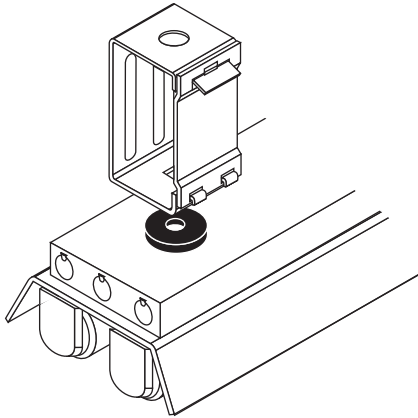
| SPECIFYING Brand & Part No. | Design Load 12 Ga. Channel | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------------------|--------------------------------|---------------|
|                             |                            | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                            |                                |               |
| W6425                       | 120 Lbs. (0.53 kN)         | VF710411                       | EF15          |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



Standard Finish: Electro Galvanized (EG)

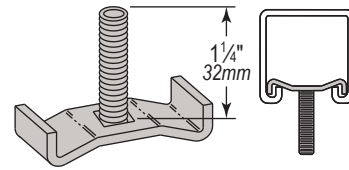
## Cushion Washer for Box Fixture Hangers



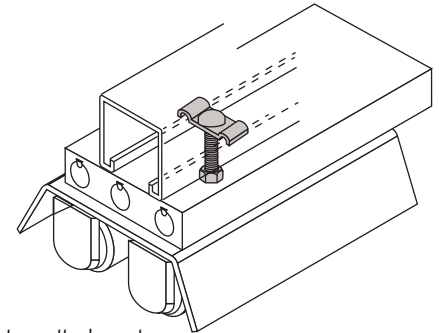
Provides a cushion between fluorescent fixture and hanger. For use with 1/4" thread diameter fasteners.

| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>RW25</b>                 | RW25                           | --            |

## Fixture Stud



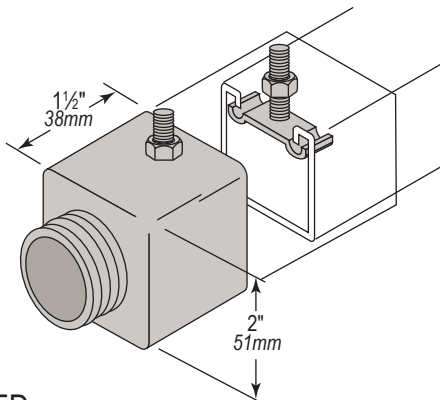
LISTED



1/4"-20 x 1-1/4" stud nut for fixture attachment. Stud extends 1" below channel slot. Hex nut included.

| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W6460</b>                | FF100 *                        | EF19          |
| * Includes nut              |                                |               |

## 1" Nipple End Cap

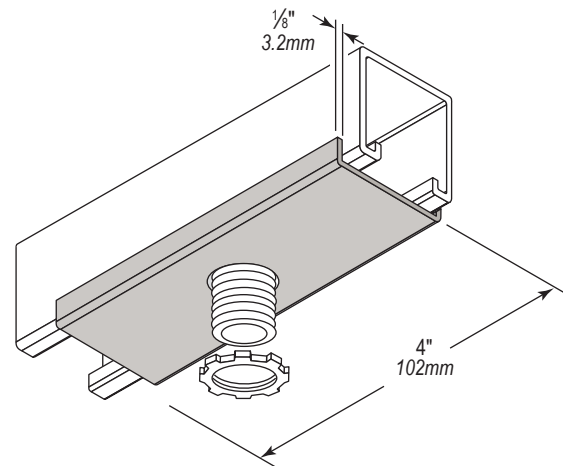


LISTED

Conduit entry fitting with 1" NPT male thread on 1/16" long nipple. Fits 1-5/8" (41mm) square channel only. Comes complete with W6460 stud nut assembly.

| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W6401</b>                | LL21A                          | --            |

## Fixture Spacer



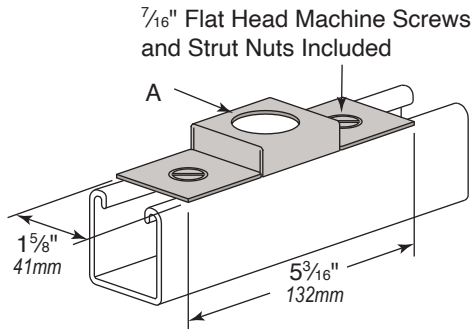
Spacer fits between channel and electric discharge lighting fixtures where 1/8" (3.2) clearance is required. Clearance hole for W6462 wiring nipple nut also shown on page 207. (Nipple and locknut not included.)

| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W6402</b>                | LL60                           | --            |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" (6mm)



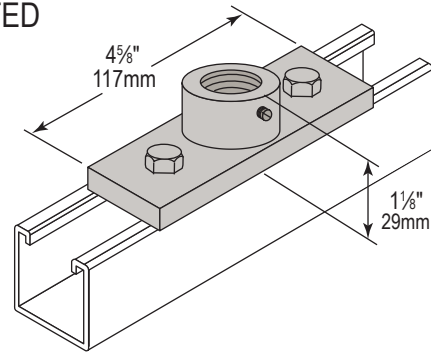
## Conduit Connection Plate with Hardware



Non load bearing conduit connector. Fraction indicates conduit size. Furnished with mounting hardware for connection to channel.

| SPECIFYING Brand & Part No. | Use with Conduit | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------------|--------------------------------|---------------|
|                             |                  | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                  |                                |               |
| W6442                       | 1/2" (13mm)      | EB20A50                        | EF220050      |
| W6443                       | 3/4" (19mm)      | EB20A75                        | EF220075      |

## Raceway Conduit Connector

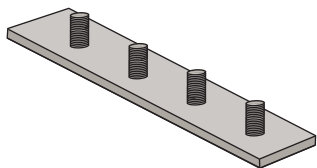


Raceway supporting conduit connector. Fraction indicates conduit size. Furnished with 1/4" x 1/2" set screw and mounting hardware for connection to channel.

**Casting thread is for 3/4" conduit, reducer will be supplied for 1/2" conduit if ordered W6446**

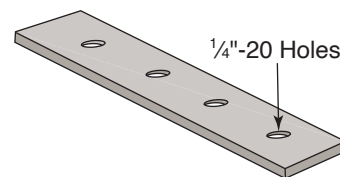
| SPECIFYING Brand & Part No. | Use with Conduit | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------------|--------------------------------|---------------|
|                             |                  | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                  |                                |               |
| W6446                       | 1/2" (13mm)      | EB19A50                        | --            |
| W6447                       | 3/4" (19mm)      | EB19A75                        | --            |

## Standard Raceway Stud Plate



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                                |               |
| W6439                       | --                             | EF31          |

## 4-Hole Tapped Splice Plate (opt.) with 4 Screws



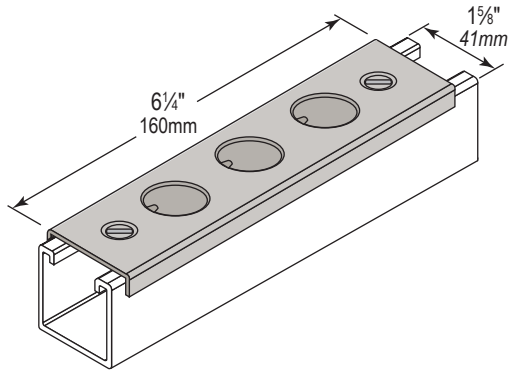
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                                |               |
| W6440                       | --                             | EF30          |

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



Standard Finish: Electro Galvanized (EG)

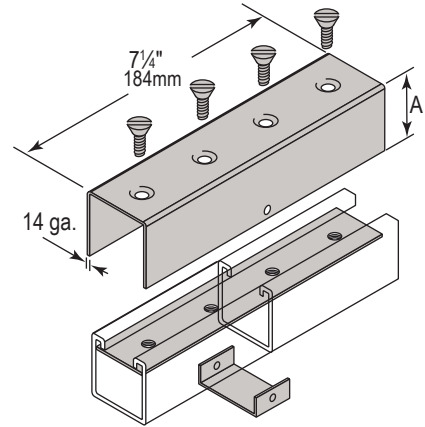
## Outlet Box Connection Fitting



Outlet plate fitting. Three  $\frac{7}{8}$ " (22) dia.K.O.'s on  $1\text{-}\frac{3}{16}$ " (30) centers. Supplied ready to install with W2-4WS channel nuts and  $\frac{1}{4}$ " x  $\frac{5}{8}$ " FLMS25x062 flat head machine screws.

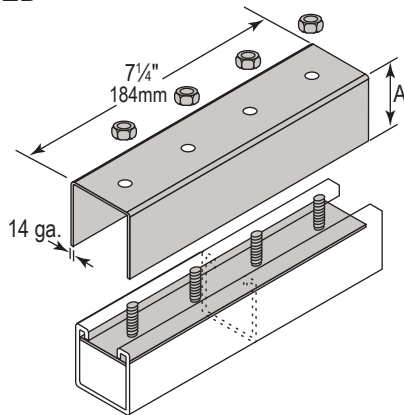
| SPECIFYING Brand & Part No. | Use with Conduit       | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------------------|--------------------------------|---------------|
|                             |                        | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                        |                                |               |
| W6449                       | $\frac{7}{8}$ " (22mm) | EB25A75                        | --            |

## Flush Type Raceway Splice Assemblies



| SPECIFYING Brand & Part No. | Channel Size               | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------------------|--------------------------------|---------------|
|                             |                            | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                            |                                |               |
| W6432                       | 1- $\frac{5}{8}$ " (41mm)  | VF5403A                        | --            |
| W6435                       | 1- $\frac{3}{16}$ " (21mm) | VF5403A4                       | --            |

## Stud Type Raceway Splice Assemblies



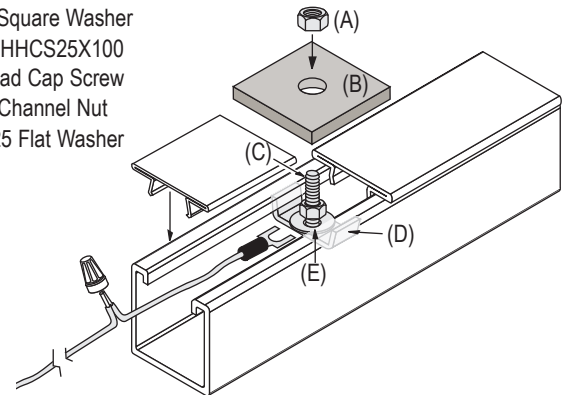
| SPECIFYING Brand & Part No. | Channel Size              | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------------------|--------------------------------|---------------|
|                             |                           | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                           |                                |               |
| W6404                       | 1- $\frac{5}{8}$ " (41mm) | VF5404A                        | --            |

## Raceway Grounding Kit

\*Wire nut is not included



- A.. 2 -  $\frac{1}{4}$ " HH25 Hex Nuts
- B. W5051 Square Washer
- C.  $\frac{1}{4}$ " x 1" HHCS25X100 Hex Head Cap Screw
- D. W6461 Channel Nut
- E.  $\frac{1}{4}$ " FW25 Flat Washer



\*Connect ground conductor to ground wire (not included)

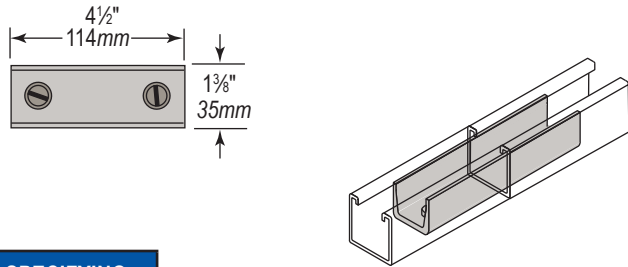
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                                |               |
| W6403                       | LLG1                           | --            |

Hole Diameter:  $\frac{9}{16}$ " (14mm); Hole Spacing - From End:  $\frac{13}{16}$ " (21mm); Hole Spacing - On Center:  $1\text{-}\frac{7}{8}$ " (48mm); Width: 1- $\frac{5}{8}$ "(41mm); Thickness:  $\frac{1}{4}$ " (6mm)



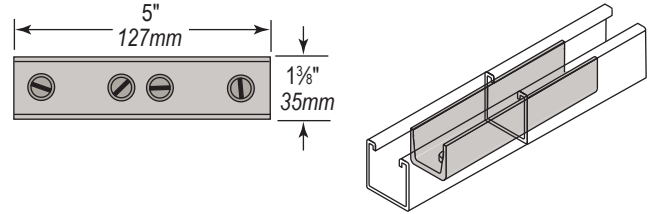
Introduction  
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Beam Clamps  
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Electrical Fittings  
Spring Steel  
Concrete Inserts  
Roofing Supports  
Fiberglass System  
Technical Data

### Standard Straight Intersplice for $1\frac{3}{16}$ " (21mm) or $1\frac{5}{8}$ " (41mm) Channel



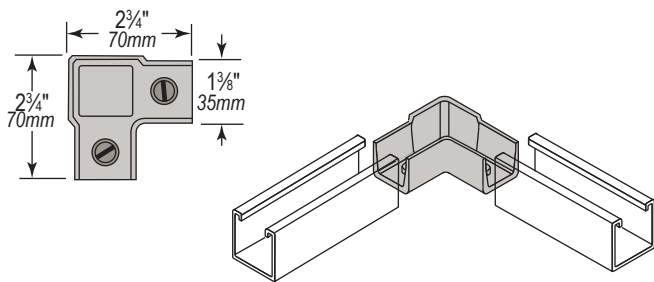
| SPECIFYING Brand & Part No. | Channel Size             | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------|--------------------------------|---------------|
|                             |                          | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>EJ330081  | $1\frac{3}{16}$ " (21mm) | --                             | --            |
| EJ330162                    | $1\frac{5}{8}$ " (41mm)  | VF5901A                        | --            |

### Long Straight Intersplice for $1\frac{5}{8}$ " (41mm) Channel



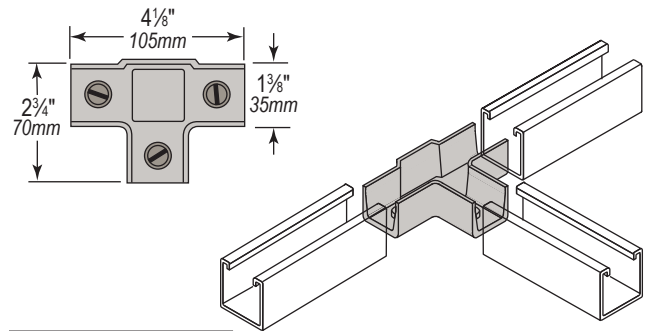
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>W6415     | VF5905A                        | --            |

### 90° Intersplice for $1\frac{5}{8}$ " (41mm) Channel



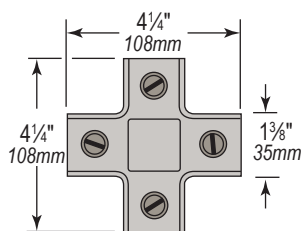
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>W6416     | VF5903A                        | --            |

### Tee Intersplice for $1\frac{5}{8}$ " (41mm) Channel

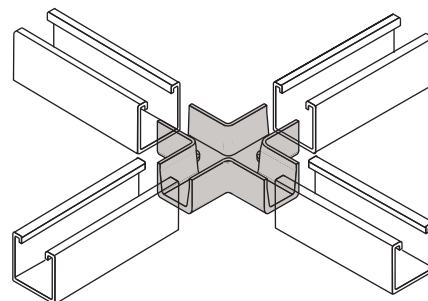


| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>W6417     | VF5902A                        | --            |

### Cross Intersplice for $1\frac{5}{8}$ " (41mm) Channel



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b><br>W6418     | VF5904A                        | --            |



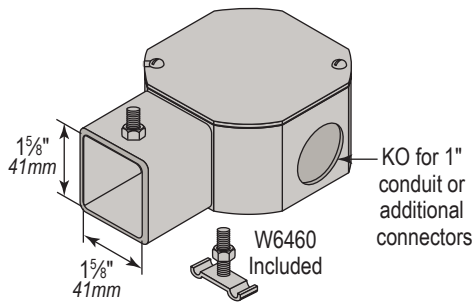
Hole Diameter:  $\frac{9}{16}$ " (14mm); Hole Spacing - From End:  $1\frac{3}{16}$ " (21mm); Hole Spacing - On Center:  $1\frac{7}{8}$ " (48mm); Width:  $1\frac{5}{8}$ " (41mm); Thickness:  $\frac{1}{4}$ " (6mm)





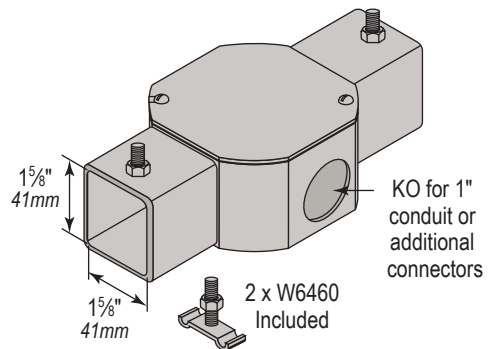
Standard Finish: Electro Galvanized (EG)

## Raceway End Box Assembly



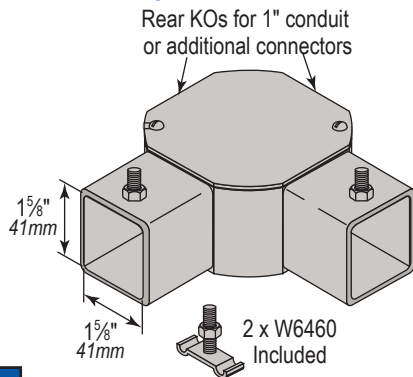
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>W6450</b>                | VJB1                           | --            |

## Raceway Straight Box Assembly



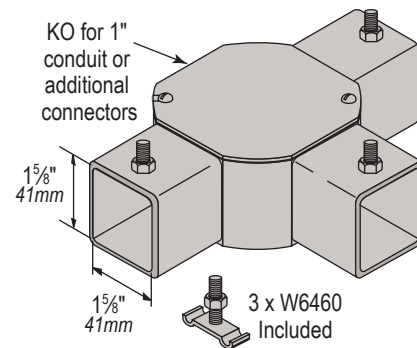
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>W6451</b>                | VJB2                           | --            |

## Raceway Corner Box Assembly



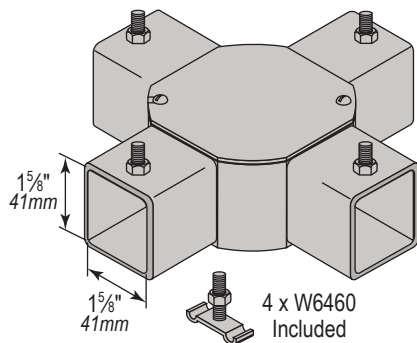
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>W6452</b>                | VJB3                           | --            |

## Raceway 3-Way Box Assembly



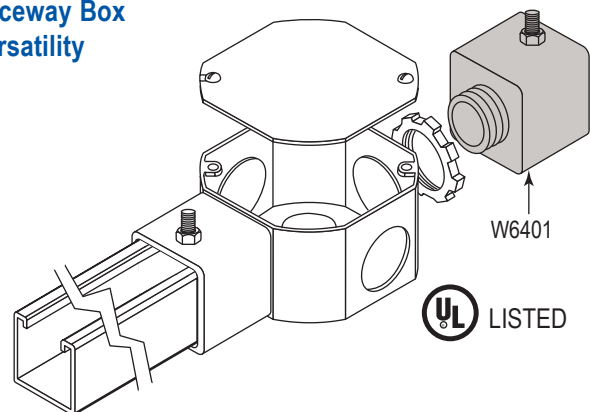
| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>W6453</b>                | VJB4                           | --            |

## Raceway 4-Way Box Assembly



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>W6454</b>                | VJB5                           | --            |

## Raceway Box Versatility



Make additional connections Through any open K.O. with W6401

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)

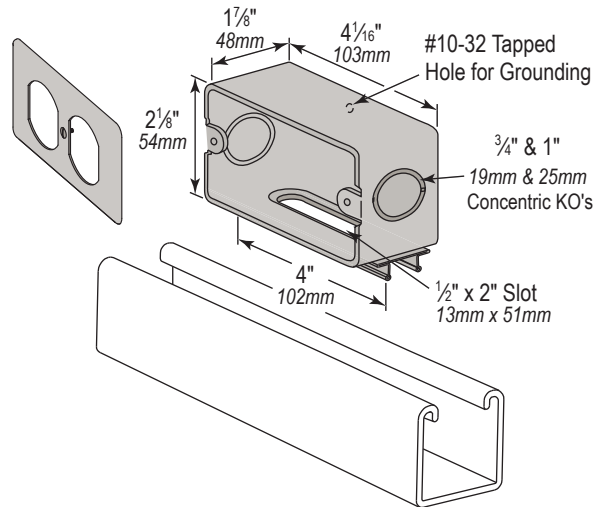


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Technical Data

### Snap-A- Box

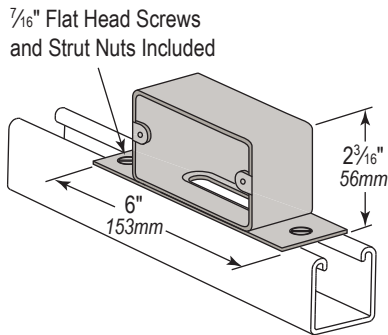
Quickly Attaches to Strut

- Requires Ground Wire Installation for use with UL Listed Channel Raceway System
- Concentric Knock-Outs  $\frac{3}{4}$ " and 1"
- No Bolts or Channel Nuts Required
- Snaps Quickly and Easily Into Channel
- Internal Slot, Rounded Edges to Avoid Wire Damage
- Includes Duplex Cover Plate
- Includes #10-32 Tapped Hole for Grounding Strap
- Knock-out Holes for Conduit Attachment



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>B6445S</b>               | --                             | B6445S        |

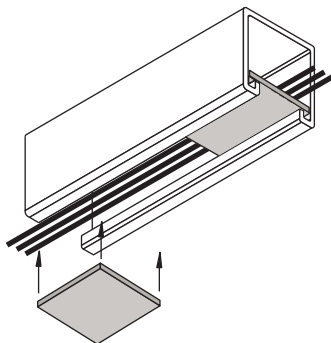
### Receptacle Box



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W6445</b>                | LL41NC                         | EF40          |

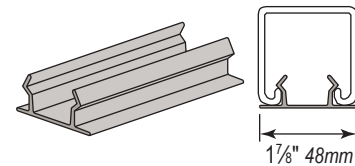
### Fiber Wire Retainer

Holds wire in place while W6500 closure strip is installed. Fits all raceway channels.



| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
| <b>WESANCO</b>              | VERSABAR                       | FLORIDA STRUT |
| <b>W6469</b>                | LL42                           | --            |

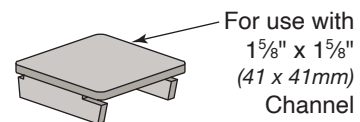
### Closure Strip (19 ga.)



Use of Closure Strip with UL listed channel completes UL Listed surface metal raceway. Standard finish: PG

| SPECIFYING Brand & Part No. | Use with Conduit | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------------|--------------------------------|---------------|
|                             |                  | VERSABAR                       | FLORIDA STRUT |
| <b>W6500</b>                | Galvanized       | VA9                            | CA-10 GAL     |
| <b>W6500PLASTIC</b>         | Plastic          | --                             | CA-10 PVC     |

### Wireway End Cap



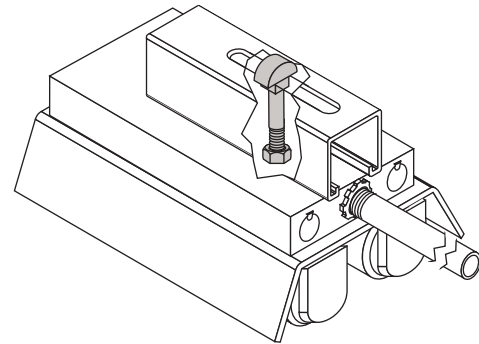
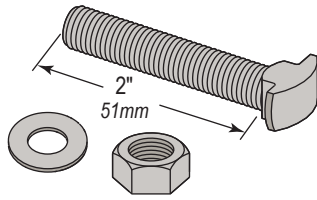
| SPECIFYING Brand & Part No. | Channel Size  | DISCONTINUED Brands & Part No. |               |
|-----------------------------|---------------|--------------------------------|---------------|
|                             |               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              | 1-5/8" (41mm) | --                             | --            |

Hole Diameter:  $\frac{9}{16}$ " (14mm); Hole Spacing - From End:  $\frac{13}{16}$ " (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness:  $\frac{1}{4}$ " (6mm)



Standard Finish: Electro Galvanized (EG)

## Shoulder Bolt $\frac{3}{8}$ "-16 x 2"

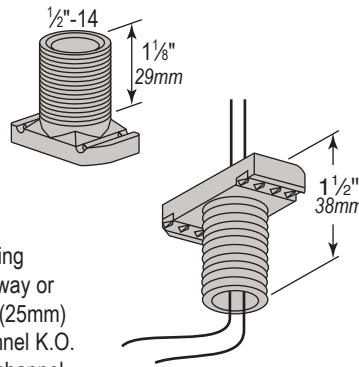


| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                                |               |
| W6463                       | FF200                          | --            |

$\frac{3}{8}$ "-16 x 2- $\frac{1}{4}$ " shoulder bolt with special head to fit through channel slots. Bolt extends  $\frac{3}{4}$ " (19mm) below 1- $\frac{5}{8}$ " (41mm) channels. Hex nut included.

## Aluminum Wiring Stud

$\frac{1}{2}$ "-14 Thread 1- $\frac{1}{8}$ " (29mm) Long

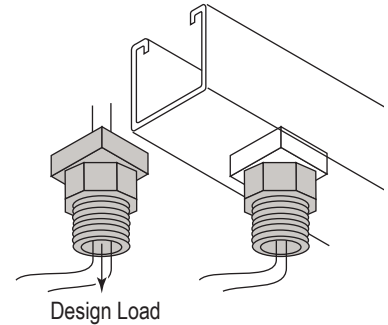


$\frac{1}{2}$ " threaded nipple nut for connecting fluorescent fixtures directly to raceway or H.I.D. fixtures. W6462 provides 1" (25mm) clearance when used through channel K.O. or  $\frac{3}{4}$ " (19mm) when supported by channel from slot.

| SPECIFYING Brand & Part No. | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------------|---------------|
|                             | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                                |               |
| W6462                       | EB22                           | EF21          |

## $\frac{3}{4}$ " Nipple Assembly

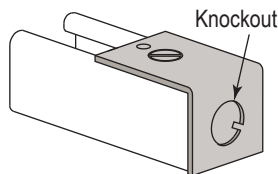
For  $\frac{1}{2}$ " Knock-Outs



This adapter works with manufacturers standard  $\frac{1}{2}$ " Knock-out raceway channel or fixture hanger.  $\frac{3}{4}$ " male pipe thread nipple can be removed if  $\frac{3}{4}$ " female thread is required.

| SPECIFYING Brand & Part No. | Design Load    | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|--------------------------------|---------------|
|                             |                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              | 12 Ga. Channel |                                |               |
| W6400                       | 200 (0.90 kN)  | EB23A                          | --            |

## End Cap with Knock-outs



| SPECIFYING Brand & Part No. | Knock-out Size         | Channel Size              | DISCONTINUED Brands & Part No. |               |
|-----------------------------|------------------------|---------------------------|--------------------------------|---------------|
|                             |                        |                           | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                        |                           |                                |               |
| W5945                       | $\frac{1}{2}$ " (13mm) | 3- $\frac{1}{4}$ " (86mm) | VF1003A1150                    | --            |
| W5946                       | $\frac{3}{4}$ " (19mm) |                           | VF1003A1175                    | --            |
| W5947                       | $\frac{1}{2}$ " (13mm) | 2- $\frac{1}{2}$ " (64mm) | VF1003A350                     | --            |
| W5944                       | $\frac{3}{4}$ " (19mm) |                           | VF1003A375                     | --            |
| W5940                       | $\frac{1}{2}$ " (13mm) | 1- $\frac{5}{8}$ " (41mm) | VF1003A150                     | EF200050      |
| W5941                       | $\frac{3}{4}$ " (19mm) |                           | VF1003A175                     | EF200075      |
| W5942                       | $\frac{1}{2}$ " (13mm) | 1- $\frac{3}{8}$ " (35mm) | VF1003A650                     | --            |
| W5943                       | $\frac{3}{4}$ " (19mm) |                           | VF1003A675                     | --            |

Hole Diameter:  $\frac{9}{16}$ " (14mm); Hole Spacing - From End:  $\frac{13}{16}$ " (21mm); Hole Spacing - On Center: 1- $\frac{7}{8}$ " (48mm); Width: 1- $\frac{5}{8}$ " (41mm); Thickness:  $\frac{1}{4}$ " (6mm)



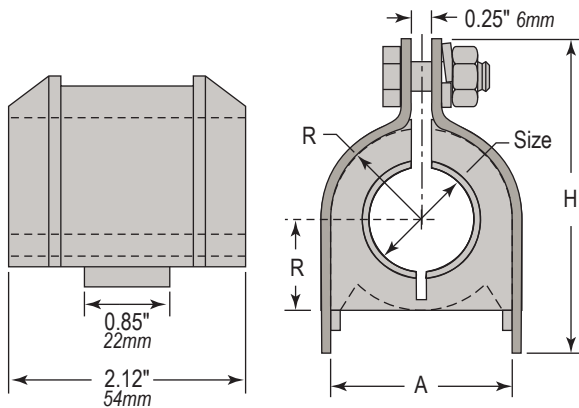
### Porce-A-Clamp® Cable Clamp



The hinged cushion allows easy installation of the wire, but the components will not get separated and lost or broken.

Replaces Porcelain and Maple Cable Clamp. Assembly consists of thermoplastic elastomer cushion with plated or stainless steel clamp. Plated steel and stainless are both supplied with Silicon Bronze bolt and nut.

- Non-breakable material
- Chemical and UV resistant
- **U.L. Listed** - Burning stops within 10 seconds after two applications of ten seconds each of a flame to a test bar with no flaming drips.
- Plated Steel, or Stainless steel clamps
- Tapered flange to protect cable
- Dielectric strength 640 volts per mil
- One piece cushion design, available with Flame retardant / Halogen Free cushions
- Silicon Bronze Hardware used to Breakup the Magnetic field around the Cable at the Clamping Location.



| Part No. | Dimensions (In.) |                  |                 | Total Assy. Height - H |
|----------|------------------|------------------|-----------------|------------------------|
|          | Hole Dia.        | A                | R               |                        |
| 006CC018 | 3/8"             | 1.12"<br>(28mm)  | 0.56"<br>(14mm) | 1.82"<br>(46mm)        |
| 008CC018 | 1/2"             |                  |                 |                        |
| 010CC018 | 5/8"             | 1.62"<br>(41mm)  | 0.81"<br>(21mm) | 2.34"<br>(59mm)        |
| 012CC026 | 3/4"             |                  |                 |                        |
| 014CC026 | 7/8"             |                  |                 |                        |
| 016CC026 | 1"               |                  |                 |                        |
| 018CC026 | 1-1/8"           | 2.62"<br>(67mm)  | 1.31"<br>(33mm) | 3.50"<br>(89mm)        |
| 020CC034 | 1-1/4"           |                  |                 |                        |
| 022CC034 | 1-3/8"           |                  |                 |                        |
| 024CC034 | 1-1/2"           |                  |                 |                        |
| 026CC034 | 1-5/8"           | 3.12"<br>(79mm)  | 1.56"<br>(40mm) | 4.05"<br>(103mm)       |
| 028CC042 | 1-3/4"           |                  |                 |                        |
| 030CC042 | 1-7/8"           |                  |                 |                        |
| 032CC042 | 2"               |                  |                 |                        |
| 034CC042 | 2-1/8"           | 3.62"<br>(92mm)  | 1.81"<br>(46mm) | 4.75"<br>(121mm)       |
| 036CC050 | 2-1/4"           |                  |                 |                        |
| 038CC050 | 2-3/8"           |                  |                 |                        |
| 040CC050 | 2-1/2"           |                  |                 |                        |
| 042CC050 | 2-5/8"           | 4.62"<br>(117mm) | 2.31"<br>(59mm) | 5.54"<br>(141mm)       |
| 044CC058 | 2-3/4"           |                  |                 |                        |
| 046CC058 | 2-7/8"           |                  |                 |                        |
| 048CC058 | 3"               |                  |                 |                        |
| 050CC058 | 3-1/8"           | 5.00"<br>(127mm) | 2.50"<br>(64mm) | 5.92"<br>(150mm)       |
| 052CC066 | 3-1/4"           |                  |                 |                        |
| 054CC066 | 3-3/8"           |                  |                 |                        |
| 056CC066 | 3-1/2"           |                  |                 |                        |
| 058CC066 | 3-5/8"           | 5.00"<br>(127mm) | 2.50"<br>(64mm) | 5.92"<br>(150mm)       |
| 060CC074 | 3-3/4"           |                  |                 |                        |
| 062CC074 | 3-7/8"           |                  |                 |                        |
| 064CC074 | 4"               |                  |                 |                        |
| 066CC074 | 4-1/8"           | 5.00"<br>(127mm) | 2.50"<br>(64mm) | 5.92"<br>(150mm)       |
| 068CC080 | 4-1/4"           |                  |                 |                        |
| 070CC080 | 4-3/8"           |                  |                 |                        |
| 072CC080 | 4-1/2"           |                  |                 |                        |

Note: All clamps have Silicon Bronze Hardware

| SUFFIX | Clamp           | Cushion                      | Example    |
|--------|-----------------|------------------------------|------------|
| Z      | Plated Steel    | Flame Retardant              | 006CC018Z  |
| S      | Stainless Steel |                              | 006CC018S  |
| ZH     | Plated Steel    | Flame Retardant Halogen Free | 006CC018ZH |
| SH     | Stainless Steel |                              | 006CC018SH |

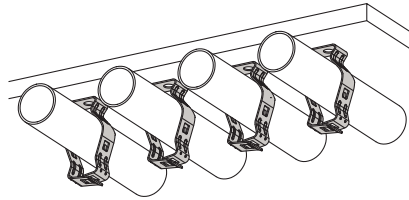
Hole Diameter: 3/8" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)

# Spring Steel

## Electrical Positioning and Support Products

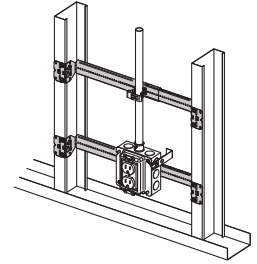
### Conduit and Cable Supports

Pages 210 - 219



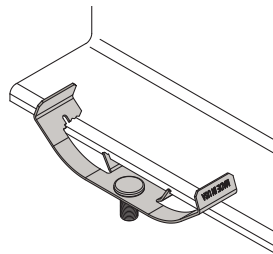
### Stud Wall Applications

Pages 231 - 236



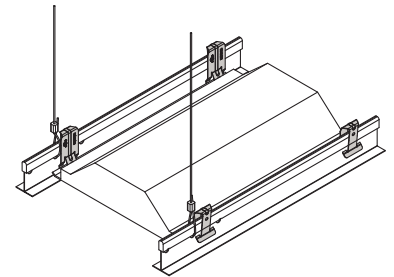
### Structural Attachment

Pages 220 - 230



### Ceiling and Acoustical Applications

Pages 237 - 240




## The Silva-Guard Finish

### Superior Corrosion Resistance

The Silva-Guard finish provides one of the highest levels of corrosion resistance for spring steel fasteners available on the market. Silva-Guard coating is extremely consistent providing a finish that combines superior appearance and outstanding protection.

This aesthetically pleasing appearance is particularly important for installations in highly visible areas, such as open ceilings.

SG Finish is  Listed for indoor, outdoor, wet, and dry applications.

### Innovative Three Step Coating System

The Silva-Guard finish is a three step coating system that is RoHS, WEEE, and ELV compliant.

- The first step is surface preparation involving a process designed to improve the coating adhesion.
- The second step is a base coat designed to self-heal from nicks and scratches as well as sacrifice itself instead of the fastener base material.
- The third step is a topcoat designed to be an additional protective barrier.

| Spring Steel Specifications |  |
|-----------------------------|--|
| Material                    | ASTM Description                                 |
| Spring Steel                | Cold Roll, ASTM A684 Grade 1055 Spring Steel     |
| Carbon Steel                | ASTM A1011-00 SS GR 33 or ASTM A1011-00CS Type B |

| Spring Steel Finish Specifications       |  |
|--|--|
| Finish                                   | Description  |
| Silva-Guard                              | Silva-Guard coating is a multi-step process that meets the 1000 hour salt spray test per ASTM B117 and DIN 50021. Silva-Guard coating is WEEE, ELV and RoHS compliant. SG Finish is approved for outdoor as well as indoor applications. It is a chrome free duplex coating system that combines an inorganic zinc-rich base coat with an aluminum-rich organic topcoat. |
| Electroplated Zinc or Electro-Galvanized | This coating is standard for most products. Electro-Galvanized products meet ASTM B633 SC1 or SC3, Type III. Electroplating deposits zinc on the surface of the steel by electrolysis from a bath of zinc salts.   |
| Pre-galvanized Zinc                      | ASTM A653 G-90 Pre-galvanized zinc is produced by continuously rolling steel coils or sheets through molten zinc at the mills.   |

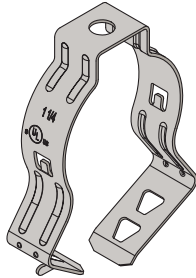
See page 23 for Material or Finish ordering codes for part numbers.



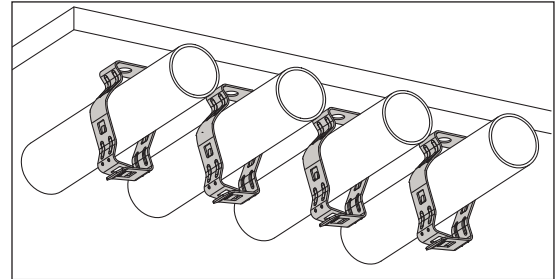


## CC/CCT

Conduit Clips

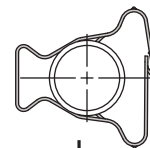


- For vertical or horizontal conduit and pipe applications.
- Threaded version can be used with 1/4"-20 threaded rods.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

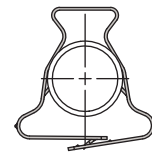


| Part No. | Mounting Hole       | Conduit Size            |
|----------|---------------------|-------------------------|
| CC6 *    | 3/32" Thru Hole     | 3/8" Flexible Conduit   |
| CC812    | 3/32" Thru Hole     | 1/2" or 3/4" EMT, Rigid |
| CCT812   | 1/4"-20 Thread Form |                         |
| CC16     | 3/32" Thru Hole     | 1" EMT, Rigid           |
| CCT16    | 1/4"-20 Thread Form |                         |
| CC20     | 3/32" Thru Hole     | 1-1/4" EMT, Rigid       |
| CCT20    | 1/4"-20 Thread Form |                         |
| CC24     | 3/32" Thru Hole     | 1-1/2" EMT, Rigid       |
| CCT24    | 1/4"-20 Thread Form |                         |
| CC32     | 3/32" Thru Hole     | 2" EMT, Rigid           |
| CCT32    | 1/4"-20 Thread Form |                         |

\* Not a UL Listed Product



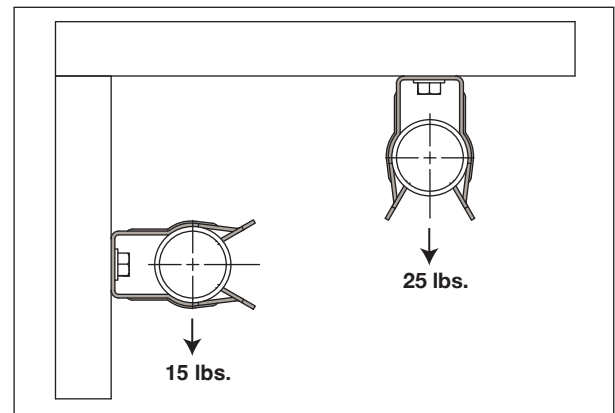
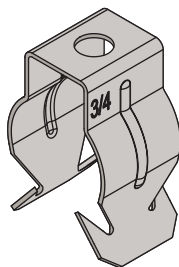
30 lbs



120 lbs

## CCP

Conduit "Push In" Clips



- Eliminates need for conduit offset bending.
- For vertical or horizontal conduit and pipe applications.
- Simple Push-in design
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No. | Mounting Hole   | Conduit Size          |
|----------|-----------------|-----------------------|
| CCP8     | 3/32" Thru Hole | 1/2" EMT              |
| CCP12    |                 | 3/4" EMT, 1/2", Rigid |
| CCP16    |                 | 1" EMT, 3/4" Rigid    |



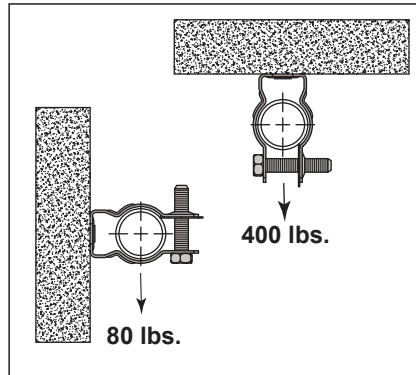
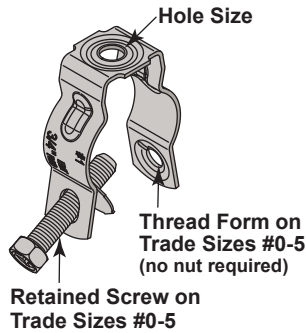
# Conduit and Cable Support



Standard Finish: Silva-Guard (SG)

## PCH

Pipe and Conduit Hanger



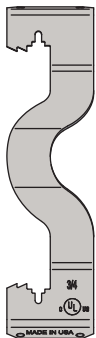
| Part No.  | Trade Size | Conduit Size |            | Hole Size |
|-----------|------------|--------------|------------|-----------|
|           |            | EMT          | Rigid      |           |
| PCH037050 | 0          | 1/2"         | 3/8", 1/2" | 1/4"      |
| PCH075    | 1          | 3/4"         | 3/4"       | 1/4"      |
| PCH100    | 2          | 1"           | 1"         | 1/4"      |
| PCHE125   | 2.5        | 1-1/4"       | -          | 1/4"      |
| PCH125    | 3          | 1-1/2"       | 1-1/4"     | 1/4"      |
| PCH150    | 4          | -            | 1-1/2"     | 5/16"     |
| PCH200    | 5          | 2"           | 2"         | 5/16"     |
| PCH250 *  | 6          | 2-1/2"       | 2-1/2"     | 5/16"     |
| PCH300 *  | 7          | 3"           | 3"         | 5/16"     |
| PCH350 *  | 8          | 3-1/2"       | 3-1/2"     | 5/16"     |
| PCH400 *  | 9          | 4"           | 4"         | 5/16"     |

\* EG finish and pan head, hex nut hardware.

- PCH #0-5 come with retained combo head screw and thread form.
- Combo head screw allows Robertson, Phillips, Slotted and Hex drivers.
- Supports vertical and horizontal installations of 3/8" - 4" Pipe and Conduit.
- 1/4"-20 Thread Form Hole Size available. Add suffix TF to Catalog Number.
- Also available in 304 and 316 Stainless Steel.
- **Material:** Steel
- **Finish:** Pregalvanized

## WC/WCBW

Wing Clip Conduit Hanger



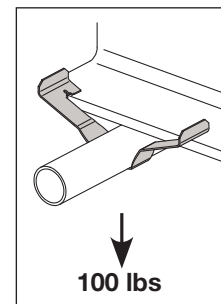
| Conduit Size | #12 & #10 Wire | #9 & #8 Wire | 3/16" & 1/4" Rod | 1/8" Thru 1/4" Flange | 5/16" Thru 3/8" Flange | 7/16" Thru 1/2" Flange |
|--------------|----------------|--------------|------------------|-----------------------|------------------------|------------------------|
| 1/2" EMT     | WC8            | WC8          | WC8              | WC8                   | WC12                   | WC12                   |
| 1/2" RIGID   |                | WC12         | WC12             | WC12                  |                        | WC16                   |
| 3/4" EMT     | WC12           |              |                  | WC12                  | WC16                   | WC16                   |
| 3/4" RIGID   |                | -            | -                |                       |                        |                        |
| 1" EMT       | -              |              |                  | -                     | -                      | -                      |
| 1" RIGID     |                | -            | -                |                       |                        |                        |
| 1-1/4" EMT   | -              |              |                  | WC20                  | WC20                   | -                      |

WC clip shown

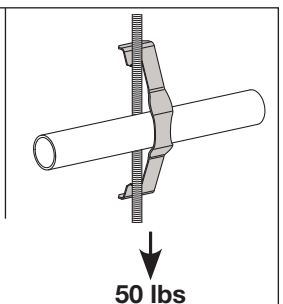
| MC/AC Cable Size        | #12, #10, #9 & #8 Wire |
|-------------------------|------------------------|
| 14 - 2 (.433-.475 O.D.) | WCBW                   |
| 14 - 3 (.453-.500 O.D.) | WCBW                   |
| 12 - 2 (.467-.475 O.D.) | WCBW                   |
| 12 - 3 (.489-.535 O.D.) | WCBW                   |
| WCBW For Position Only  |                        |

- Supports conduit and pipe to a rod, wire, or flange.
- No installation tools required.
- Box Qty 100 for all sizes.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

Flange Installation



Wire or Rod Installation

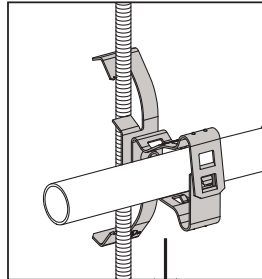
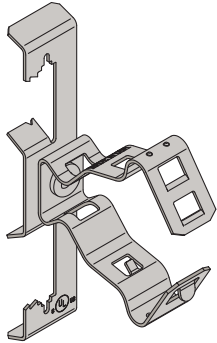


## MFC

Multi-Function Clip with Assemblies



Wire or Rod Installation



50 lbs

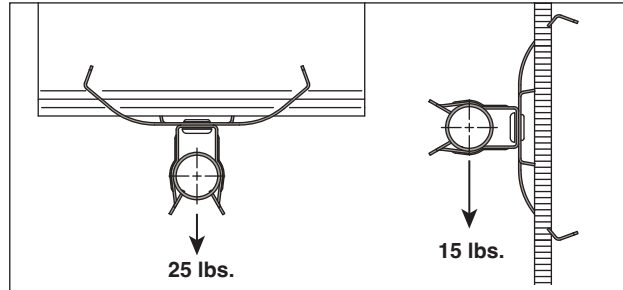
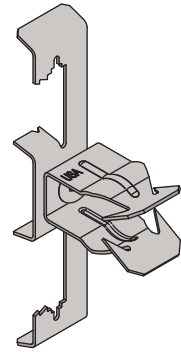
- Supports conduit and pipe to a rod, wire or flange.
- No tools required. Easy adjustment after installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No. | Flange Size | Threaded Rod Size                              | Conduit Size or Threads            |
|----------|-------------|--|------------------------------------|
| MFC6 *   | 1/8" - 3/8" | #12 - 1/4" wire or rod with or without Threads | 3/8" Flexible Conduit              |
| MFC812   |             |  | 1/2" EMT, Rigid<br>3/4" EMT, Rigid |
| MFC16    |             |  | 1" EMT, Rigid                      |

\* Not a UL Listed Product

## MFCCCP

Multi-Function Clip with Conduit "Push In" Clip



25 lbs.

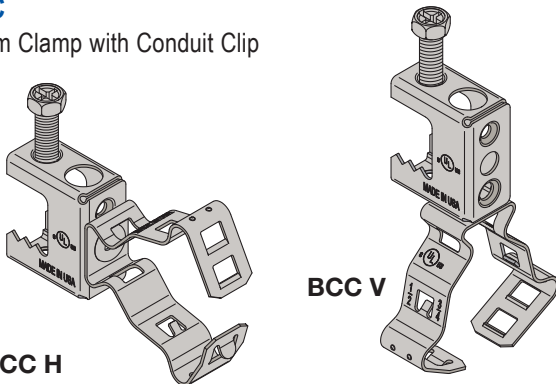
15 lbs.

- No tools required for installation of conduit.
- Supports conduit to a rod, wire or flange.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No. | Flange Size | Wire or Rod Size                               | Conduit Size         |
|----------|-------------|--|----------------------|
| MFCCCP8  | 1/8" - 3/8" | #12 - 1/4" wire or rod with or without Threads | 1/2" EMT             |
| MFCCCP12 |             |  | 3/4" EMT, 1/2" Rigid |
| MFCCCP16 |             |  | 1" EMT, 3/4" Rigid   |

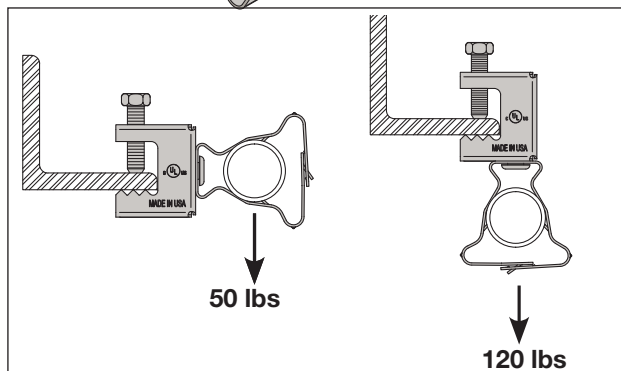
## BCC

Beam Clamp with Conduit Clip



BCC V

BCC H



50 lbs

120 lbs

| Part No. | Conduit Size           |
|----------|------------------------|
| BCC6HM * | 3/8" Flexible Conduit  |
| BCC812HM | 1/2" & 3/4" EMT, Rigid |
| BCC16HM  | 1" EMT, Rigid          |
| BCC20HM  | 1-1/4" EMT, Rigid      |
| BCC24HM  | 1-1/2" EMT, Rigid      |
| BCC32HM  | 2" EMT, Rigid          |
| BCC6VM   | 3/8" Flexible Conduit  |
| BCC812VM | 1/2" & 3/4" EMT, Rigid |
| BCC16VM  | 1" EMT, Rigid          |
| BCC20CM  | 1-1/4" EMT, Rigid      |
| BCC24VM  | 1-1/2" EMT, Rigid      |
| BCC32VM  | 2" EMT, Rigid          |

\* Not a UL Listed Product



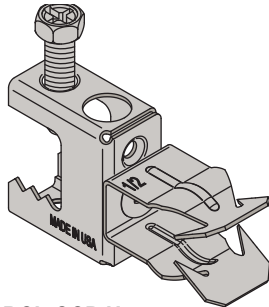
- Eliminates offset bending of conduit.
- For installation on 1/2" maximum flanges.
- Included combo head screw allows Robertson, Phillips/Slotted and Hex drivers.
- Conduit clip rotates 360 degrees.
- For support of conduit per NEC 344.30(B).
- **Material:** Spring Steel
- **Finish:** Silva-Guard



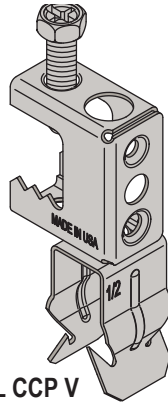
Standard Finish: Silva-Guard (SG)

## BCL CCP

Beam Clamp with Conduit "Push In" Clip

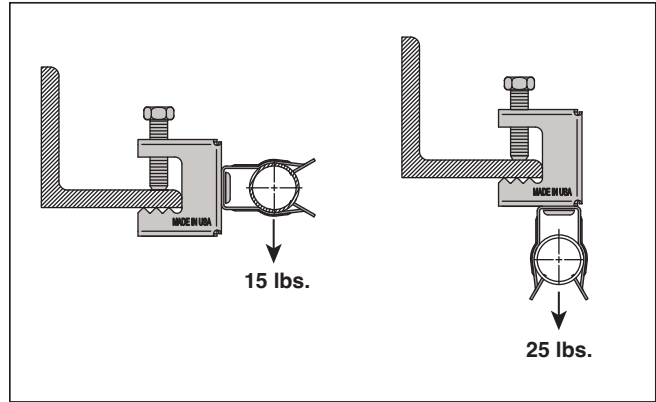


BCL CCP H



BCL CCP V

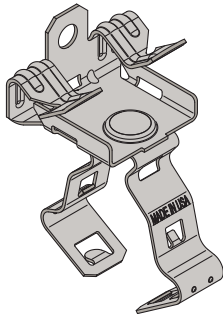
- Eliminates offset bending of conduit.
- For installation on 1/2" maximum flanges.
- Included combo head screw allows Robertson, Phillips/Slotted and Hex drivers.
- Conduit clip rotates 360 degrees.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



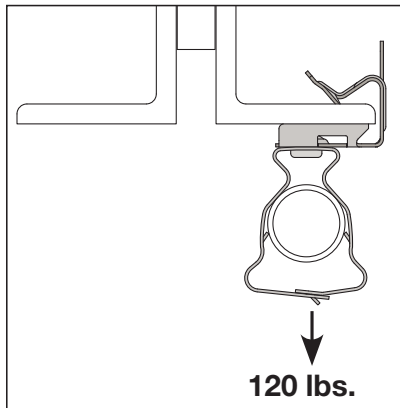
| Part No.   | Conduit Size         |
|------------|----------------------|
| BCLCCP8HM  | 1/2" EMT             |
| BCLCCP12HM | 3/4" EMT, 1/2" Rigid |
| BCLCCP16HM | 1" EMT, 3/4" Rigid   |
| BCLCCP8VM  | 1/2" EMT             |
| BCLCCP12VM | 3/4" EMT, 1/2" Rigid |
| BCLCCP16VM | 1" EMT, 3/4" Rigid   |

## FH C

Flange Clip with Conduit Clip



- Supports pipe and conduit from beam flanges.
- Conduit clip rotates 360 degrees.
- Flange thickness range stamped on part.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



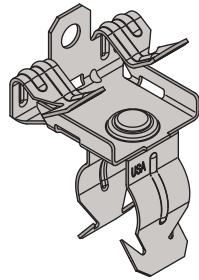
| Part No.   | Min. - Max. Flange Thickness | Conduit Size           |
|------------|------------------------------|------------------------|
| FH24CC6 *  | 1/8" - 1/4" (3mm - 6mm)      | 3/8" Flexible Conduit  |
| FH58CC6 *  | 5/16" - 1/2" (8mm - 13mm)    |                        |
| FH912CC6 * | 9/16" - 3/4" (14mm - 19mm)   |                        |
| FH24CC812  | 1/8" - 1/4" (3mm - 6mm)      | 1/2" & 3/4" EMT, Rigid |
| FH58CC812  | 5/16" - 1/2" (8mm - 13mm)    |                        |
| FH912CC812 | 9/16" - 3/4" (14mm - 19mm)   |                        |
| FH24CC16   | 1/8" - 1/4" (3mm - 6mm)      | 1" EMT, Rigid          |
| FH58CC16   | 5/16" - 1/2" (8mm - 13mm)    |                        |
| FH912CC16  | 9/16" - 3/4" (14mm - 19mm)   |                        |
| FH23CC20   | 1/8" - 1/4" (3mm - 6mm)      | 1-1/4" EMT, Rigid      |
| FH58CC20   | 5/16" - 1/2" (8mm - 13mm)    |                        |
| FH912CC20  | 9/16" - 3/4" (14mm - 19mm)   |                        |
| FH24CC24   | 1/8" - 1/4" (3mm - 6mm)      | 1-1/2" EMT, Rigid      |
| FH58CC24   | 5/16" - 1/2" (8mm - 13mm)    |                        |
| FH912CC24  | 9/16" - 3/4" (14mm - 19mm)   |                        |
| FH24CC32   | 1/8" - 1/4" (3mm - 6mm)      | 2" EMT, Rigid          |
| FH58CC32   | 5/16" - 1/2" (8mm - 13mm)    |                        |
| FH912CC32  | 9/16" - 3/4" (14mm - 19mm)   |                        |

\* Not a UL Listed Product

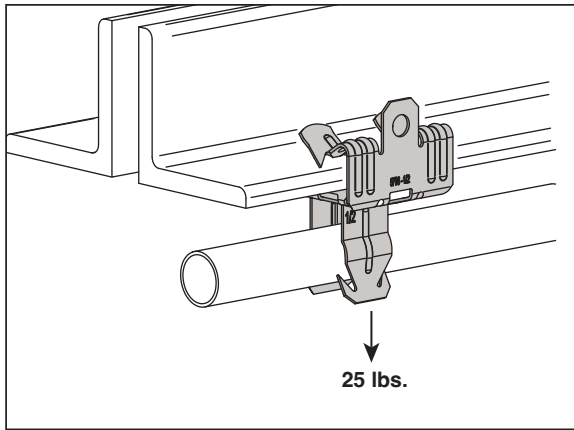


### FH CCP

Flange Clip with  
Conduit "Push In" Clip



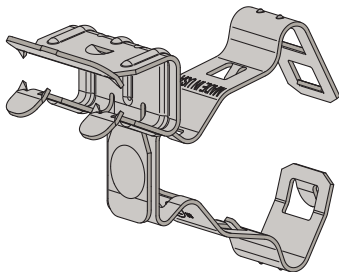
- Supports conduit from beam flanges.
- Conduit clip rotates 360 degrees.
- Flange thickness range stamped on part.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



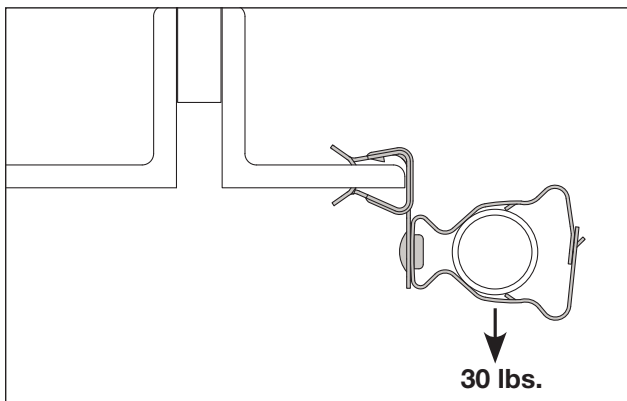
| Part No.   | Min. - Max. Flange Thickness | Conduit Size         |
|------------|------------------------------|----------------------|
| FH24CCP8   | 1/8" - 1/4" (3mm - 6mm)      | 1/2" EMT             |
| FH58CCP8   | 5/16" - 1/2" (8mm - 13mm)    |                      |
| FH912CCP8  | 9/16" - 3/4" (14mm - 19mm)   |                      |
| FH24CCP12  | 1/8" - 1/4" (3mm - 6mm)      | 3/4" EMT, 1/2" Rigid |
| FH58CCP12  | 5/16" - 1/2" (8mm - 13mm)    |                      |
| FH912CCP12 | 9/16" - 3/4" (14mm - 19mm)   |                      |
| FH24CCP16  | 1/8" - 1/4" (3mm - 6mm)      | 1" EMT, 3/4" Rigid   |
| FH58CCP16  | 5/16" - 1/2" (8mm - 13mm)    |                      |
| FH912CCP16 | 9/16" - 3/4" (14mm - 19mm)   |                      |

### FHS C

Flange Clip Side Mount with Conduit Clip



- Supports pipe and conduit from beam flanges.
- Flange thickness range stamped on part.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



| Part No.    | Min. - Max. Flange Thickness | Conduit Size           |
|-------------|------------------------------|------------------------|
| FHS24CC6 *  | 1/8" - 1/4" (3mm - 6mm)      | 3/8" Flexible Conduit  |
| FHS58CC6 *  | 5/16" - 1/2" (8mm - 13mm)    |                        |
| FHS912CC6 * | 9/16" - 3/4" (14mm - 19mm)   |                        |
| FHS24CC812  | 1/8" - 1/4" (3mm - 6mm)      | 1/2" & 3/4" EMT, Rigid |
| FHS58CC812  | 5/16" - 1/2" (8mm - 13mm)    |                        |
| FHS912CC812 | 9/16" - 3/4" (14mm - 19mm)   |                        |
| FHS24CC16   | 1/8" - 1/4" (3mm - 6mm)      | 1" EMT, Rigid          |
| FHS58CC16   | 5/16" - 1/2" (8mm - 13mm)    |                        |
| FHS912CC16  | 9/16" - 3/4" (14mm - 19mm)   |                        |
| FHS24CC20   | 1/8" - 1/4" (3mm - 6mm)      | 1-1/4" EMT, Rigid      |
| FHS58CC20   | 5/16" - 1/2" (8mm - 13mm)    |                        |
| FHS912CC20  | 9/16" - 3/4" (14mm - 19mm)   |                        |
| FHS24CC24   | 1/8" - 1/4" (3mm - 6mm)      | 1-1/2" EMT, Rigid      |
| FHS58CC24   | 5/16" - 1/2" (8mm - 13mm)    |                        |
| FHS912CC24  | 9/16" - 3/4" (14mm - 19mm)   |                        |
| FHS24CC32   | 1/8" - 1/4" (3mm - 6mm)      | 2" EMT, Rigid          |
| FHS58CC32   | 5/16" - 1/2" (8mm - 13mm)    |                        |
| FHS912CC32  | 9/16" - 3/4" (14mm - 19mm)   |                        |

\* Not a UL Listed Product





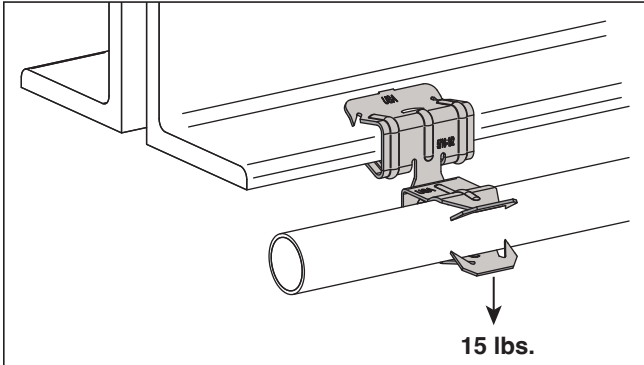
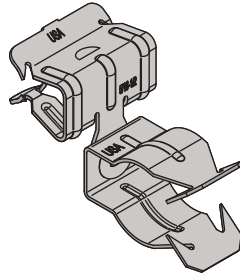
# Conduit and Cable Support



Standard Finish: Silva-Guard (SG)

## FHS CCP

Flange Clip Side Mount with Conduit "Push In" Clip

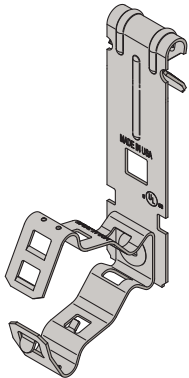


- Supports conduit from beam flanges.
- Flange thickness range stamped on part.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No.    | Min. - Max. Flange Thickness | Conduit Size         |
|-------------|------------------------------|----------------------|
| FHS24CCP8   | 1/8" - 1/4" (3mm - 6mm)      | 1/2" EMT             |
| FHS58CCP8   | 5/16" - 1/2" (8mm - 13mm)    |                      |
| FHS912CCP8  | 9/16" - 3/4" (14mm - 19mm)   |                      |
| FHS24CCP12  | 1/8" - 1/4" (3mm - 6mm)      | 3/4" EMT, 1/2" Rigid |
| FHS58CCP12  | 5/16" - 1/2" (8mm - 13mm)    |                      |
| FHS912CCP12 | 9/16" - 3/4" (14mm - 19mm)   |                      |
| FHS24CCP16  | 1/8" - 1/4" (3mm - 6mm)      | 1" EMT, 3/4" Rigid   |
| FHS58CCP16  | 5/16" - 1/2" (8mm - 13mm)    |                      |
| FHS912CCP16 | 9/16" - 3/4" (14mm - 19mm)   |                      |

## FHV CC

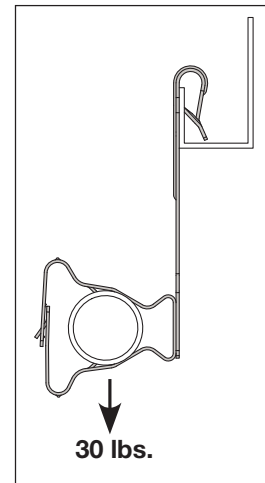
Flange Hanger with Conduit Clip



- Supports pipe and conduit from bar joist's and "C" purlin's.
- Compatible with many industry standard installation tools.
- 1/16"-1/4" flange thickness range.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

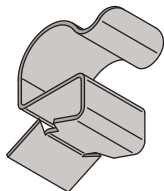
| Part No.  | Min. - Max. Flange Thickness | Conduit Size           |
|-----------|------------------------------|------------------------|
| FHV3CC6 * | 1/16" - 1/4"                 | 3/8" Flexible Conduit  |
| FHV3CC812 |                              | 1/2" & 3/4" EMT, Rigid |
| FHV3CC16  |                              | 1" EMT, Rigid          |

\* Not a UL Listed Product

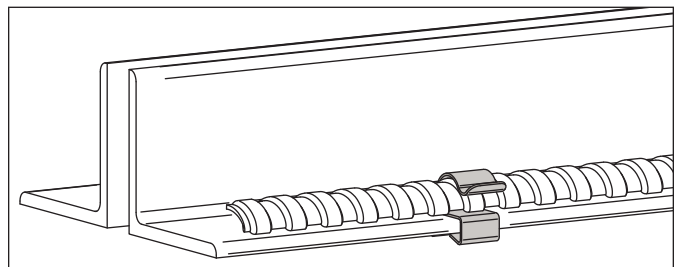


## CFC

Conduit Clip to Flange



| Part No. | Flange Thickness | Cable O.D.  |
|----------|------------------|-------------|
| CFC2D    | 1/16" - 3/16"    | 0.46 - 0.56 |
| CFC4D    | 3/16" - 9/32"    | 0.46 - 0.56 |
| CFC4E    |                  | 0.50 - 0.72 |
| CFC8D    | 5/16" - 1/2"     | 0.46 - 0.56 |
| CFC8E    |                  | 0.50 - 0.72 |



- Supports flexible conduit and cable from flanges.
- Simple Push-in clip design.
- **Material:** Steel
- **Finish:** Electro-Galvanized



Introduction

Channel

Channel Nuts & Hardware

General Fittings

Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

Concrete Inserts

Rooftop Supports

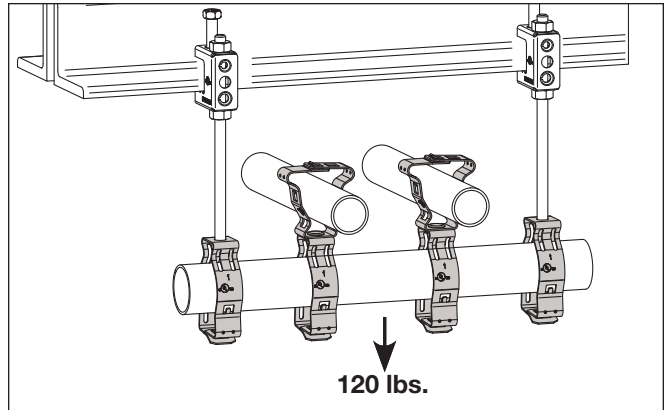
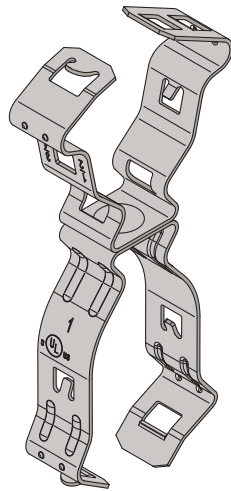
Fiberglass System

Technical Data

Standard Finish: Silva-Guard (SG)

## CC CC

Conduit Clip  
with Conduit Clip



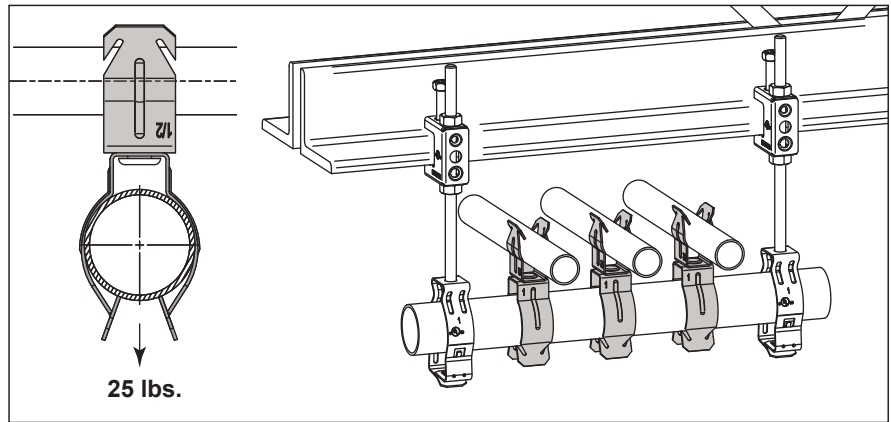
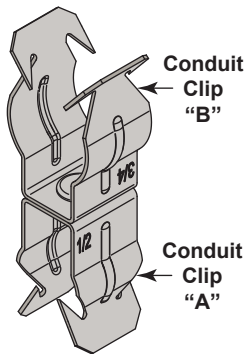
- No screws or bolts required.
- For lightweight trapeze systems.
- Conduit clip rotates 360 degrees.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No.  | Conduit Clip            |
|-----------|-------------------------|
| CC16CC6 * | 3/8" Flexible Conduit   |
| CC16CC812 | 1/2" or 3/4" EMT, Rigid |
| CC16CC16  | 1" EMT, Rigid           |
| CC16CC20  | 1-1/4" EMT, Rigid       |
| CC16CC24  | 1-1/2" EMT, Rigid       |
| CC16CC32  | 2" EMT, Rigid           |

\* Not a UL Listed Product

## CCP CCP

Conduit "Push In" Clip with Conduit  
"Push In" Clip



- No tools required for conduit installation.
- For lightweight trapeze systems.
- Conduit clips rotate 360 degrees.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No.   | Conduit Clip "A"     | Conduit Clip "B"     |
|------------|----------------------|----------------------|
| CCP8CCP8   | 1/2" EMT             | 1/2" EMT             |
| CCP8CCP12  |                      | 3/4" EMT, 1/2" Rigid |
| CCP8CCP16  | 3/4" EMT, 1/2" Rigid | 1" EMT, 3/4" Rigid   |
| CCP12CCP12 |                      | 3/4" EMT, 1/2" Rigid |
| CCP12CCP16 |                      | 1" EMT, 3/4" Rigid   |
| CCP16CCP16 | 1" EMT, 3/4" Rigid   | 1" EMT, 3/4" Rigid   |



# Conduit and Cable Support

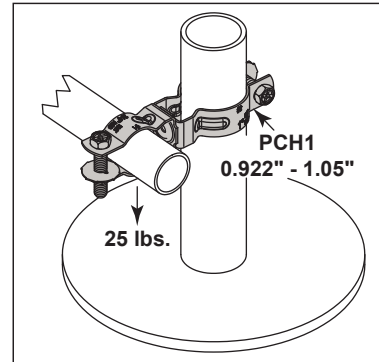
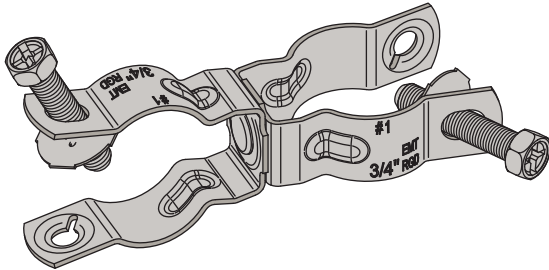


Standard Finish: Silva-Guard (SG)



## PCH PCH

Pipe and Conduit Hanger with Pipe and Conduit Hanger

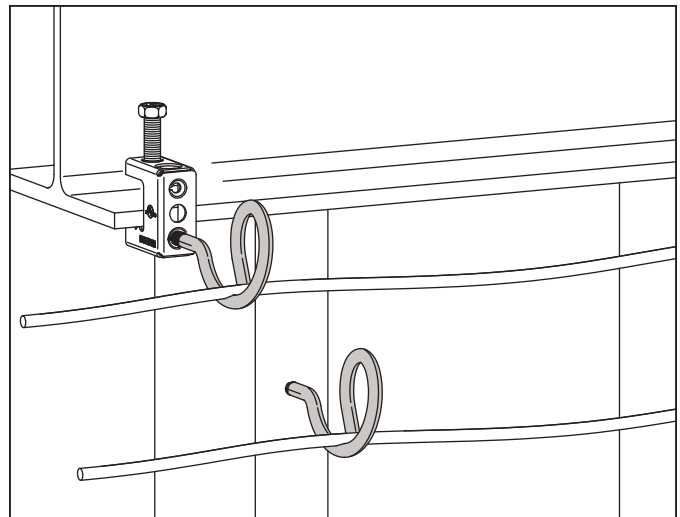
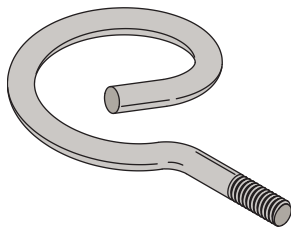


- Supports conduit and pipe from 1" O.D. computer floor pedestals.
- Retained combo head screw allows Robertson, Phillips/ Slotted and Hex drivers.
- Conduit clip rotates 360 degrees.
- Suitable for air handling spaces (plenums) (remove washer at assembly)
- Also available in 304 and 316 Stainless Steel.
- **Material:** Steel
- **Finish:** Pregalvanized

| Part No.        | Trade Size | Conduit Size |            |
|-----------------|------------|--------------|------------|
|                 |            | EMT          | Rigid      |
| PCH075PCH037050 | 0          | 1/2"         | 3/8", 1/2" |
| PCH075PCH075    | 1          | 3/4"         | 3/4"       |
| PCH075PCH100    | 2          | 1"           | 1"         |
| PCH075PCHE125   | 2.5        | 1-1/4"       | -          |
| PCH075PCH125    | 3          | 1-1/2"       | 1-1/4"     |

## BR

Bridle Ring



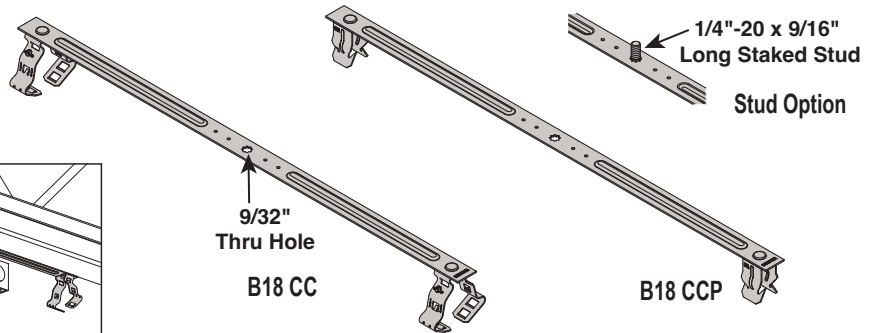
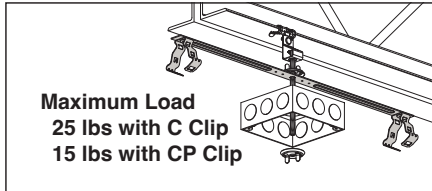
| Part No. | Ring Size I.D. | Thread Size     |
|----------|----------------|-----------------|
| BR1012   | 3/4"           | #10-24          |
| BR1020   | 1-1/4"         | #10-24          |
| BR2520   |                | 1/4"-20         |
| BR2520WS | 2"             | 1/4" Wood Screw |
| BR1032   |                | #10-24          |
| BR2532   | 2"             | 1/4"-20         |
| BR2532WS |                | 1/4" Wood Screw |

- Supports low voltage communication cable.
- Compatible with many other fasteners for support from purlin, T-grid, drop wire, and beam flanges.
- **Material:** Steel
- **Finish:** Electro-galvanized



## B18 CC CCP

Box to Conduit Support, Snap Close or Push-In Conduit Clips



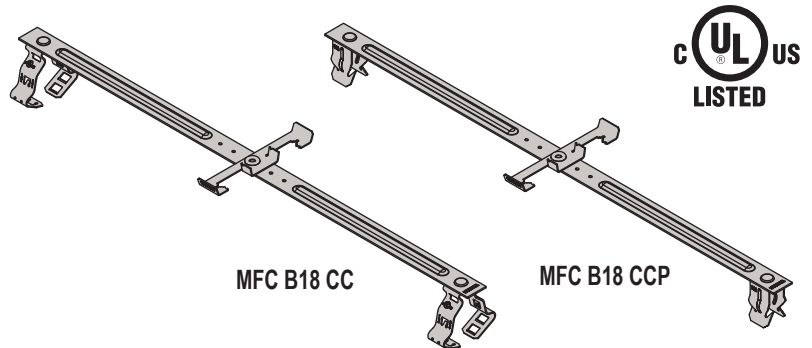
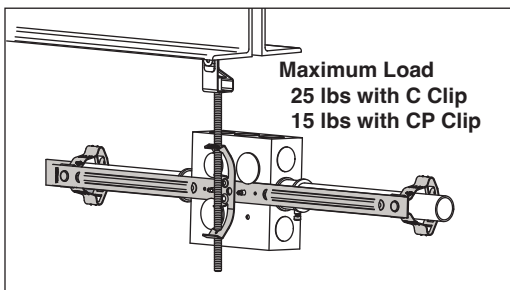
| Part No.      | Description                         | Conduit Size           |
|---------------|-------------------------------------|------------------------|
| B18 CC6 *     | Box Support with through hole       | 3/8" Flexible Conduit  |
| BS18 CC6S *   | Box Support with 1/4" Threaded Stud |                        |
| B18 CC8-12    | Box Support with through hole       | 1/2" & 3/4" EMT, Rigid |
| BS18 CC8-12S  | Box Support with 1/4" Threaded Stud |                        |
| B18 CC16      | Box Support with through hole       | 1" EMT, Rigid          |
| BS18 CC16S    | Box Support with 1/4" Threaded Stud |                        |
| B18 CCP8 *    | Box Support with through hole       | 1/2" EMT               |
| BS18 CCP8S *  | Box Support with 1/4" Threaded Stud |                        |
| B18 CCP12 *   | Box Support with through hole       | 3/4" EMT or 1/2" Rigid |
| BS18 CCP12S * | Box Support with 1/4" Threaded Stud |                        |
| B18 CCP16 *   | Box Support with through hole       | 1" EMT or 3/4" Rigid   |
| BS18 CCP16S * | Box Support with 1/4" Threaded Stud |                        |

\* Not a UL Listed Product

- For support of conduit per NEC344.30(B).
- SDTSLP8X1/2 low profile screws recommended for installation, see page 236.
- For wet or dry applications.
- Dedicated drop wire/rod secured (anchor) at both ends required per NEC 300.11.
- Two B18 though hole assemblies may be used by mounting 90° to each other.
- Not for fixture or ceiling fan support.
- **Material:** Steel/Spring Steel
- **Finish:** Silva-Guard

## MFC B18 CC CCP

Multi-function clip to Box and Conduit Support



| Part No.        | Description for 1/4" Threaded Rod Size                            | Conduit Size           |
|-----------------|---|------------------------|
| MFC B18 CC6 *   | Box Support with multi-function clip and snap close conduit clips | 3/8" Flexible Conduit  |
| MFC B18 CC8-12  |   |                        |
| MFC B18 CC16    | Box Support with multi-function clip and push-in conduit clips    | 1/2" & 3/4" EMT, Rigid |
| MFC B18 CCP8 *  |   |                        |
| MFC B18 CCP12 * | 1" EMT, Rigid   |                        |
| MFC B18 CCP16 * |   |                        |

\* Not a UL Listed Product

- For support of conduit per NEC344.30(B).
- SDTSLP8X1/2 low profile screws recommended for installation, see page 236.
- For wet or dry applications.
- Multi-function clip requires dedicated drop wire/rod per NEC 300.11.
- Two screws are required when mounting box to B18 Support.
- Multi-function clips are for single use only.
- Not for fixture or ceiling fan support.
- **Material:** Steel/Spring Steel
- **Finish:** Silva-Guard



# Conduit and Cable Support

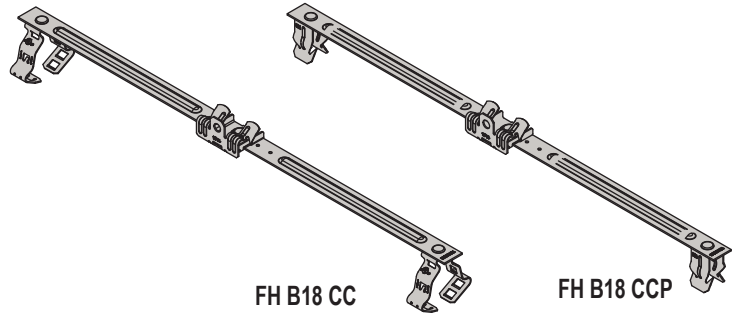
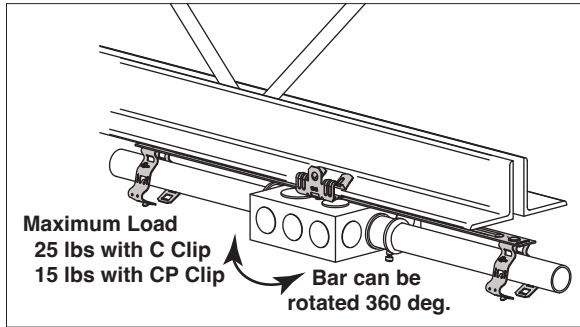


Standard Finish: Silva-Guard (SG)



## FH B18 CC CCP

Flange Clip Hammer-On to Box and Conduit Support



| Part No.        | Description   | Flange Thickness | Conduit Size           |
|-----------------|---|------------------|------------------------|
| FH24B18 CC6 *   | Box Support with flange clip hammer on and snap close conduit clips | 1/8" - 1/4"      | 3/8" Flexible Conduit  |
| FH58B18 CC6 *   |   | 5/16" - 1/2"     |                        |
| FH24B18 CC812   |   | 1/8" - 1/4"      | 1/2" & 3/4" EMT, Rigid |
| FH58B18 CC812   |   | 5/16" - 1/2"     |                        |
| FH24B18 CC16    |   | 1/8" - 1/4"      | 1" EMT, Rigid          |
| FH58B18 CC16    |   | 5/16" - 1/2"     |                        |
| FH24B18 CCP8 *  | Box Support with flange clip hammer on and push-in conduit clips    | 1/8" - 1/4"      | 1/2" EMT               |
| FH58B18 CCP8 *  |   | 5/16" - 1/2"     |                        |
| FH24B18 CCP12 * |   | 1/8" - 1/4"      | 3/4" EMT or 1/2" Rigid |
| FH58B18 CCP12 * |   | 5/16" - 1/2"     |                        |
| FH24B18 CCP16 * |   | 1/8" - 1/4"      | 1" EMT or 3/4" Rigid   |
| FH58B18 CCP16 * |   | 5/16" - 1/2"     |                        |

\* Not a UL Listed Product

- For support of conduit per NEC344.30(B).
- SDTSLP8X1/2 low profile screws recommended for installation, see page 236.
- For wet or dry applications.
- Two screws are required when mounting box to B18 Support.
- Hammer-on flange hangers are for single use only.
- Not to be used on tapered flanges.
- Not for fixture or ceiling fan support.
- **Material:** Steel/Spring Steel
- **Finish:** Silva-Guard

## TRH

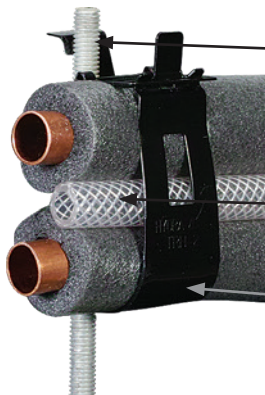
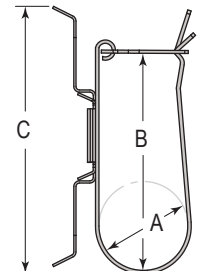
Hanger System

Great for running Communication or Internet Cables



Supports cable runs or a pair of insulated flow and return refrigerant lines on 1/4" to 3/8" threaded rod. Simply fold the lock-tab over to secure the lines into the strap. The spring steel hanger grips the rod tightly, and the black zinc coating offers corrosion resistance while matching the insulation color. The clamp can be detached from the rod hanger and used to secure lines to flat surfaces.

- Black color to match pipe insulation
- Quick to Install
- Quick to Adjust
- Spring steel hanger grips rod tightly
- Rolled steel edges for safe cable runs



Works with 1/4" - 3/8" threaded rod

Supports a pair of insulated liquid and suction lines

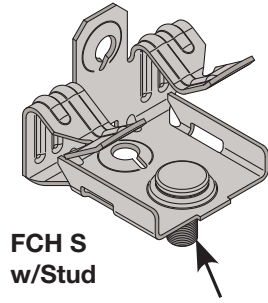
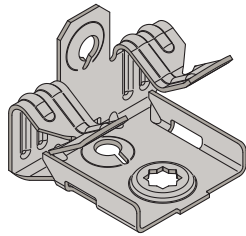
Spring steel rod hanger can be fitted or adjusted in seconds

| Part No. (Pack of 10) | Threaded Rod Sizes | Flow & Return Pipe Pairs | A            | B             | C             |               |
|-----------------------|--------------------|--------------------------|--------------|---------------|---------------|---------------|
| TRH-2                 | 1/4" - 3/8"        | 3/8" Liquid & 5/8" Gas   | 1.28" (33mm) | 3.12" (79mm)  | 3.82" (97mm)  |               |
| TRH-3                 |                    | 1/2" Liquid & 7/8" Gas   | 1.40" (36mm) | 3.28" (83mm)  | 3.70" (94mm)  |               |
| TRH-4                 |                    | 5/8" Liquid & 1-1/8" Gas | 2.40" (61mm) | 4.17" (106mm) | 5.00" (127mm) |               |
| TRH-5                 |                    |                          |              | 3.38" (86mm)  | 6.26" (159mm) | 7.03" (179mm) |





**FCH**  
Flange Clip

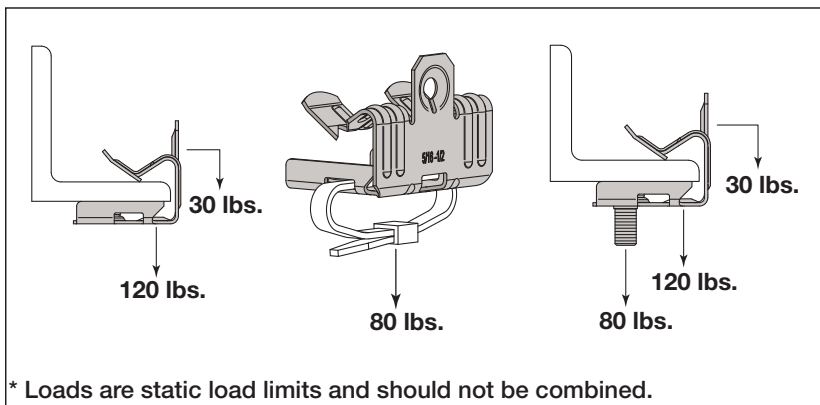


**FCH S  
w/Stud**

1/4"-20 x  
3/8" Stud

- Multi use beam clamp used to support threaded rod, electrical boxes, and bridal rings from beam flanges.
- Beam clamp with stud is for supporting electrical boxes from beam flanges.
- Punched holes provided for zip tie applications.
- 1/4"-20 thread forms permit threaded rod applications.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

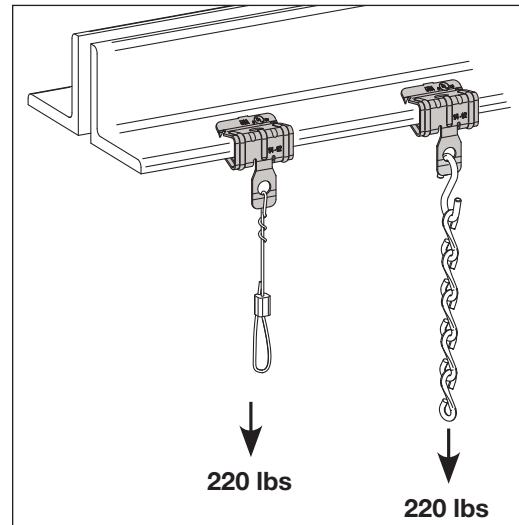
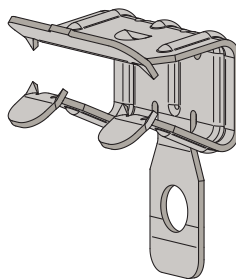
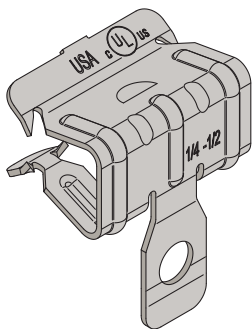
**FCH**



\* Loads are static load limits and should not be combined.

| Part No.       | Flange Thickness           |
|----------------|----------------------------|
| <b>FCH24</b>   | 1/8" - 1/4" (3mm - 6mm)    |
| <b>FCH58</b>   | 5/16" - 1/2" (8mm - 13mm)  |
| <b>FCH912</b>  | 9/16" - 3/4" (14mm - 19mm) |
| <b>FCH24S</b>  | 1/8" - 1/4" (3mm - 6mm)    |
| <b>FCH58S</b>  | 5/16" - 1/2" (8mm - 13mm)  |
| <b>FCH912S</b> | 9/16" - 3/4" (14mm - 19mm) |

**FSM**  
Flange Clip Side Mount



| Part No.      | Flange Thickness           | Hole Size        |
|---------------|----------------------------|------------------|
| <b>FSM24</b>  | 1/8" - 1/4" (3mm - 6mm)    | 9/32"<br>(7.1mm) |
| <b>FSM58</b>  | 5/16" - 1/2" (8mm - 13mm)  |                  |
| <b>FSM912</b> | 9/16" - 3/4" (14mm - 19mm) |                  |

- Beam clamp with hole for supporting tie wire and jack chain to beam flanges.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

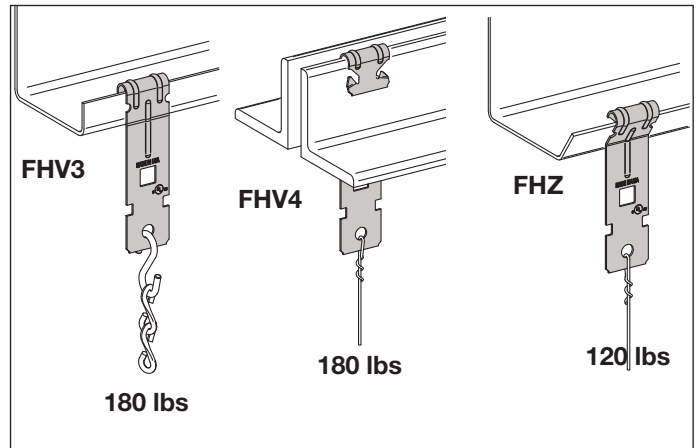
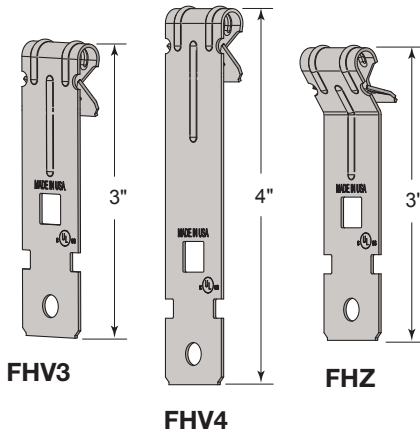
# Structural Attachment



Standard Finish: Silva-Guard (SG)

## FVZ, FHZ

Flange Hanger for Purlins and Bar Joists

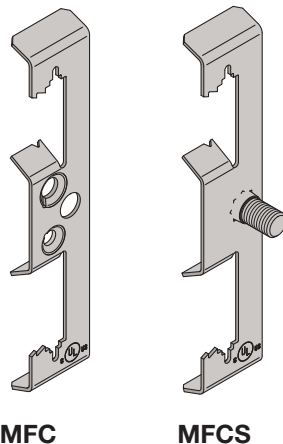


- **FHV3:** Flange clip with hole for supporting tie wire and jack chain to bar joist's and "C" purlin's.
- **FHV4:** Extra long flange clip with hole for supporting tie wire and jack chain to tall bar joist's and "C" purlin's.
- **FHZ:** Angled flange clip with hole for supporting tie wire and jack chain to "Z" purlin's.
- Compatible with many industry standard installation tools.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No. | Min. - Max. Flange Thickness | Hole Size        |
|----------|------------------------------|------------------|
| FHV3     | 1/16" - 1/4"<br>(2mm - 6mm)  | 9/32"<br>(7.1mm) |
| FHV4     |                              |                  |
| FHZ      |                              |                  |

## MFC

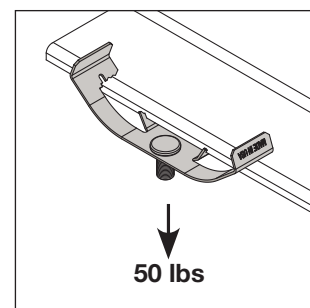
Multi-Function Clip



| Part No. | Flange Size | Threaded Rod Size | Conduit Size or Threads                                |
|----------|-------------|-------------------|--|
| MFC      | 1/8" - 3/8" | 1/4" Threaded Rod | 9/32" - hole, 1/4" - 20 and 10-24 thread form          |
| MFCS     | 1/8" - 3/8" | 1/4" Threaded Rod | 1/4" - 20 staked stud with nut (UL listed box support) |

- **MFC:** Supports #10-24 and 1/4"-20 bridal rings to rod and wire.
- **MFCS:** Supports electrical boxes to rod and wire.
- No tools required. Easy adjustment after installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

### Flange Installation



Introduction

Channel

Channel Nuts & Hardware

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Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

Concrete Inserts

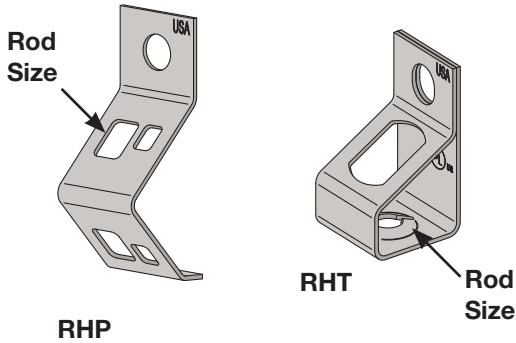
Roofing Supports

Fiberglass System

Technical Data

## RHP RHT

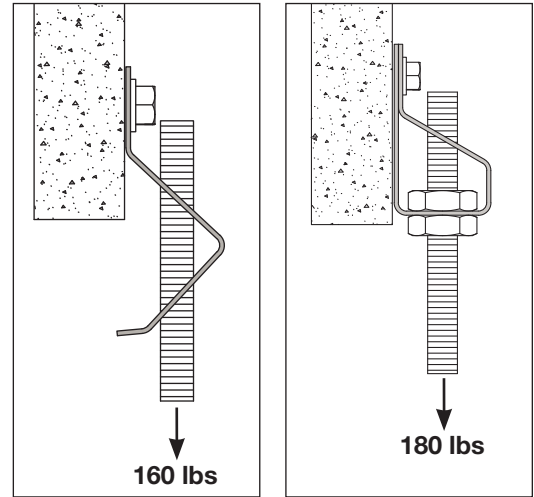
Rod Hanger Push Install or Rod Hanger Thread Install



- **RHP:** Suspends plain and threaded rod from vertical surfaces, and provides easy adjustment of rod after installation.
- **RHT:** Suspends threaded rod from vertical surfaces.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

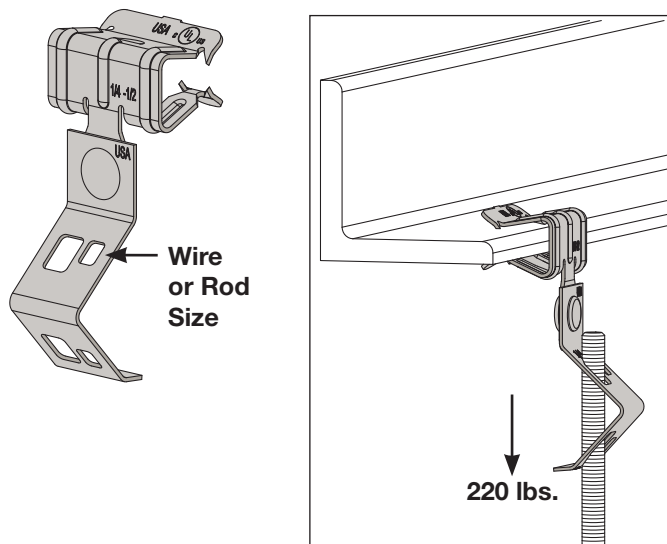
| Part No.      | Rod Size                                       |
|---------------|--|
| <b>RHP4</b>   | #8 Wire or 1/4" Plain or Threaded Rod          |
| <b>RHP6</b>   | 3/8" Plain or Threaded Rod                     |
| <b>RHT4T</b>  | 1/4" - 20 Thread Form                          |
| <b>RHT6T</b>  | 3/8" - 16 Thread Form                          |
| <b>RHT6 *</b> | 13/32" Thru Hole for 1/4" or 3/8" Threaded Rod |

\* Nuts sold separately



## FH P

Flange Clip Side Mount with Rod Hanger Push Install



- Suspends plain and threaded rod from beam flanges.
- Easy adjustment of rod after installation.
- Flange thickness range stamped on part.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No.         | Minimum - Maximum Flange Thickness | Wire/ Rod Size      |
|------------------|------------------------------------|---------------------|
| <b>FH24RHP4</b>  | 1/8" - 1/4" (3mm - 6mm)            | #8 Wire or 1/4" Rod |
| <b>FH58RHP4</b>  | 5/16" - 1/2" (8mm - 13mm)          |                     |
| <b>FH912RHP4</b> | 9/16" - 3/4" (14mm - 19mm)         |                     |
| <b>FH24RHP6</b>  | 1/8" - 1/4" (3mm - 6mm)            | 3/8" Rod            |
| <b>FH58RHP6</b>  | 5/16" - 1/2" (8mm - 13mm)          |                     |
| <b>FH912RHP6</b> | 9/16" - 3/4" (14mm - 19mm)         |                     |



# Structural Attachment

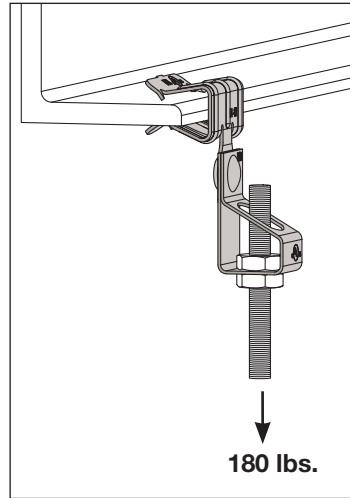
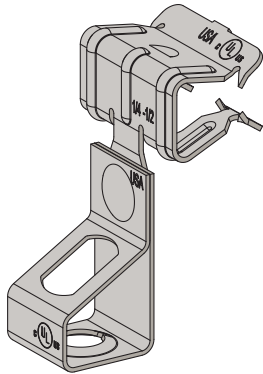


Standard Finish: Silva-Guard (SG)

## FH RHT

Flange Clip Side Mount with Rod Hanger Thread Install

- Suspends threaded rod from beam flanges.
- Flange thickness range stamped on part.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

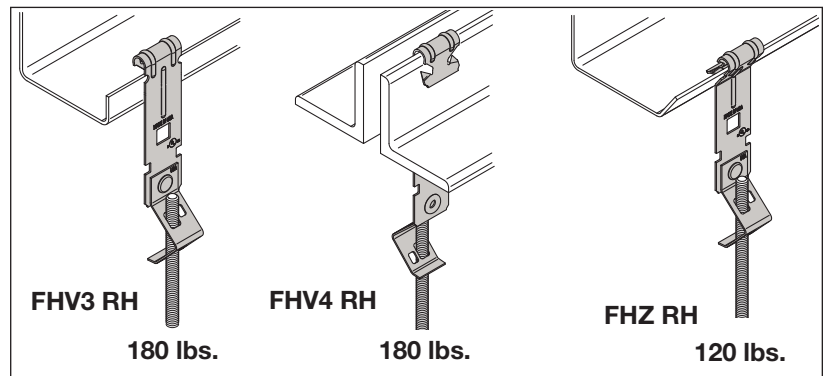
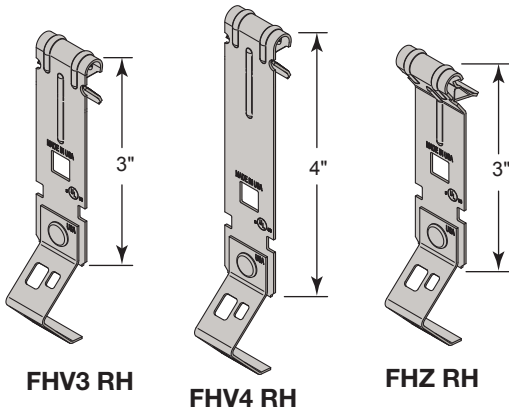


| Part No.   | Min. - Max. Flange Thickness | Hole Size                                       |
|------------|------------------------------|---|
| FH24RH4T   | 1/8" - 1/4" (3mm - 6mm)      | 1/4" - 20 Thread Form                           |
| FH58RH4T   | 5/16" - 1/2" (8mm - 13mm)    |   |
| FH912RH4T  | 9/16" - 3/4" (14mm - 19mm)   |   |
| FH24RH6T   | 1/8" - 1/4" (3mm - 6mm)      | 3/8" - 16 Thread Form                           |
| FH58RH6T   | 5/16" - 1/2" (8mm - 13mm)    |   |
| FH912RH6T  | 9/16" - 3/4" (14mm - 19mm)   |   |
| FH24RH6 *  | 1/8" - 1/4" (3mm - 6mm)      | 1 1/32" thru hole for 1/4" or 3/8" Threaded Rod |
| FH58RH6 *  | 5/16" - 1/2" (8mm - 13mm)    |   |
| FH912RH6 * | 9/16" - 3/4" (14mm - 19mm)   |   |

\* 2 nuts required (sold separately)

## FVZ RH

Flange hanger with Rod Hanger Push Install



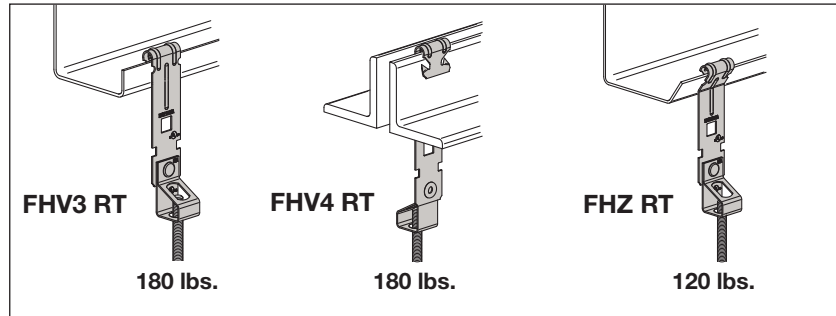
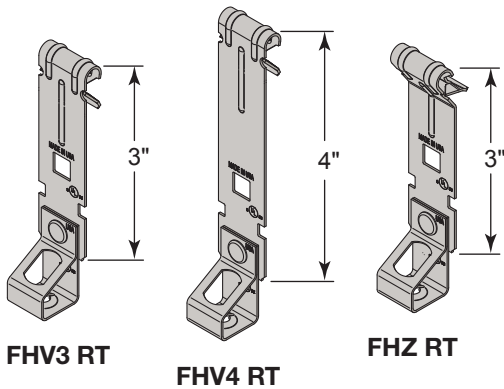
- **FHV3:** Suspends plain and threaded rod from bar joist's and "C" purlin's.
- **FHV4:** Extra long clip suspends plain and threaded rod from bar joist's.
- **FHZ:** Angled clip suspends plain and threaded rod from "Z" purlin's.
- Easy adjustment of rod after installation.
- Compatible with many industry standard installation tools.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No. | Wire / Rod Size                       | Min. - Max. Flange Thickness |
|----------|---------------------------------------|------------------------------|
| FHV3RH4  | #8 Wire or 1/4" Plain or Threaded Rod | 1/16" - 1/4"                 |
| FHV3RH6  | 3/8" Plain or Threaded Rod            |                              |
| FHV4RH4  | #8 Wire or 1/4" Plain or Threaded Rod | 1/16" - 1/4"                 |
| FHV4RH6  | 3/8" Plain or Threaded Rod            |                              |
| FHZRH4   | #8 Wire or 1/4" Plain or Threaded Rod | 1/16" - 1/4"                 |
| FHZRH6   | 3/8" Plain or Threaded Rod            |                              |



## FVZ RT

Flange Hanger with Rod Hanger Threaded Install



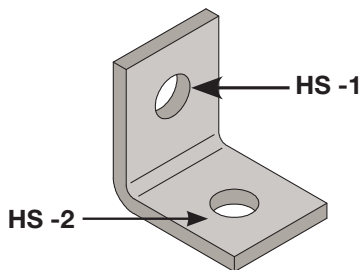
- **FHV3 RT:** Suspends threaded rod from bar joist's and "C" purlin's.
- **FHV4 RT:** Extra long clip suspends threaded rod from bar joist's.
- **FHZ RT:** Angled clip suspends threaded rod from "Z" purlin's.
- Compatible with many industry standard installation tools.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No.         | Rod Size  | Min. - Max. Flange Thickness |
|------------------|---|------------------------------|
| <b>FHV3RH4T</b>  | 1/4"-20 Thread Form                             | 1/16" - 1/4"                 |
| <b>FHV3RH6T</b>  | 3/8"-16 Thread Form                             |                              |
| <b>FHV3RH6 *</b> | 1 3/32" Thru Hole for 1/4" or 3/8" Threaded Rod | 1/16" - 1/4"                 |
| <b>FHV4RH4T</b>  | 1/4"-20 Thread Form                             |                              |
| <b>FHV4RH6T</b>  | 3/8"-16 Thread Form                             | 1/16" - 1/4"                 |
| <b>FHV4RH6 *</b> | 1 3/32" Thru Hole for 1/4" or 3/8" Threaded Rod |                              |
| <b>FHZRH4T</b>   | 1/4"-20 Thread Form                             | 1/16" - 1/4"                 |
| <b>FHZRH6T</b>   | 3/8"-16 Thread Form                             |                              |
| <b>FHZRTH6 *</b> | 1 3/32" Thru Hole for 1/4" or 3/8" Threaded Rod |                              |

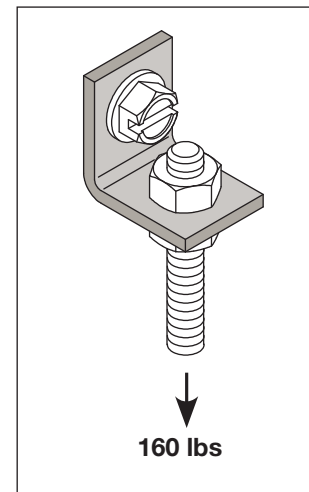
\* Nuts sold separately

## AB

Angle Bracket



- Accepts wire, chain and rod drops from concrete or wood.
- **Material:** Steel
- **Finish:** Pregalvanized



| Part No.    | HS - 1        | HS - 2          |
|-------------|---------------|-----------------|
| <b>AB04</b> | 9/32" (7.1mm) | 9/32" (7.1mm)   |
| <b>AB06</b> | 9/32" (7.1mm) | 13/32" (10.3mm) |

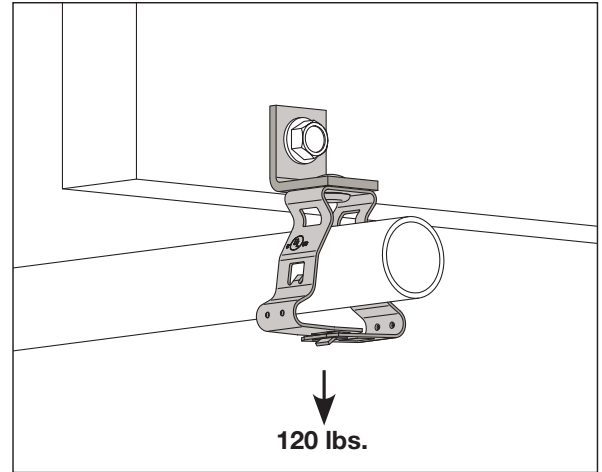
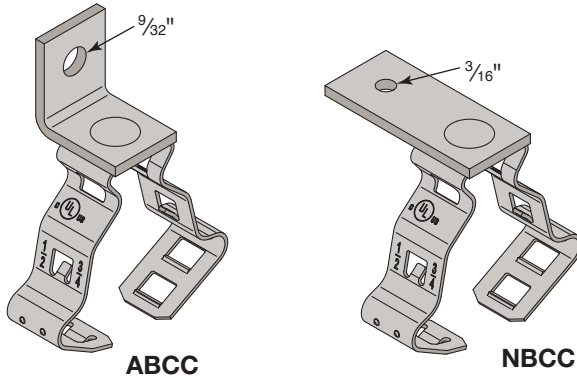






## ABCC, NBCC

Angle Bracket and Nail Bracket with Conduit Clip



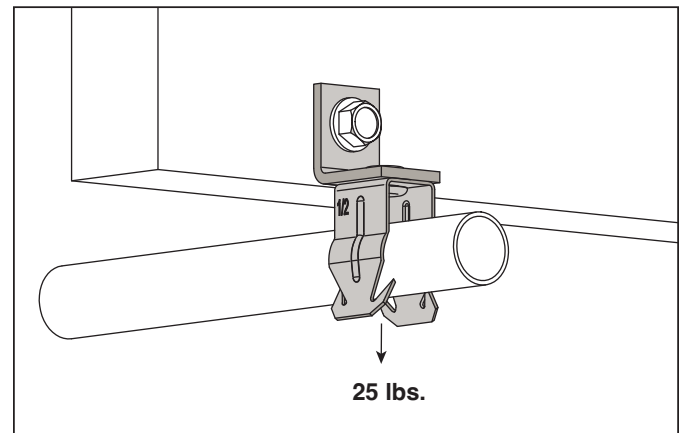
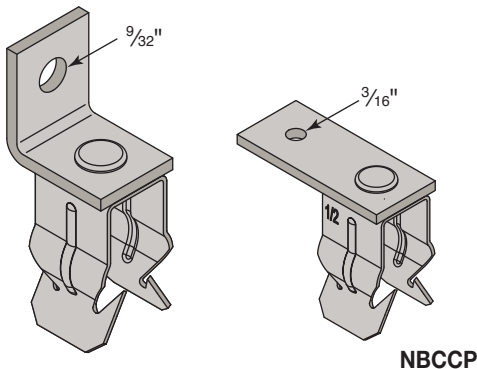
- **ABCC:** Supports horizontal runs of conduit through metal studs and prevents conduit from rattling in wall.
- **NBCC:** Attaches conduit to wood, concrete and steel, works with power tools and nails.
- Conduit clip rotates 360 degrees.
- **Material:** Steel & Spring Steel
- **Finish:** Pregalvanized & Silva-Guard

| Part No. | Conduit Size            |
|----------|-------------------------|
| ABCC6 *  | 3/8" Flexible Conduit   |
| ABCC812  | 1/2" or 3/4" EMT, Rigid |
| NBCC6 *  | 3/8" Flexible Conduit   |
| NBCC812  | 1/2" or 3/4" EMT, Rigid |

\* Not a UL Listed Product

## ABCCP, NBCCP

Angle and Nail Bracket with Conduit "Push In" Clip



### ABCCP

- **ABCCP:** Supports horizontal runs of conduit through metal studs and prevents conduit from rattling in wall.
- **NBCCP:** Attaches conduit to wood, concrete and steel, works with power tools and nails.
- Conduit clip rotates 360 degrees.
- **Material:** Steel & Spring Steel
- **Finish:** Pregalvanized & Silva-Guard

| Part No. | Conduit Size          |
|----------|-----------------------|
| ABCCP8   | 1/2" EMT              |
| ABCCP12  | 3/4" EMT, 1/2", Rigid |
| NBCCP8   | 1/2" EMT              |
| NBCCP12  | 3/4" EMT, 1/2" Rigid  |



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Concrete Inserts

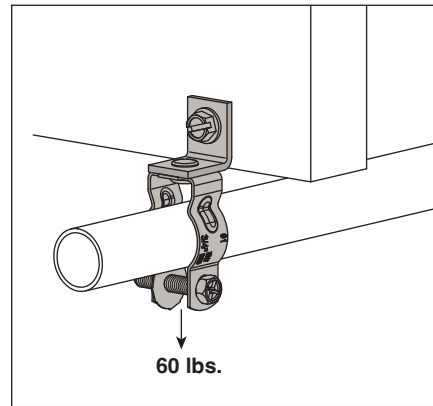
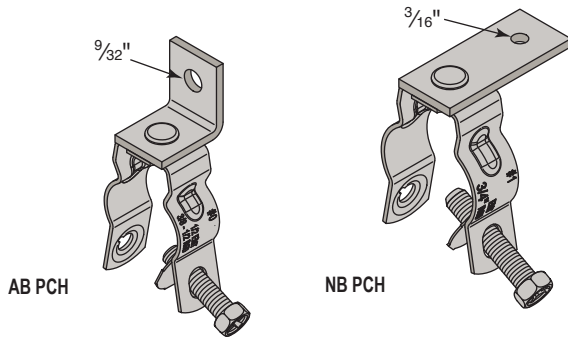
Rooftop Supports

Fiberglass System

Technical Data

## AB PCH, NB PCH

Angle & Nail Bracket with Pipe & Conduit Hanger

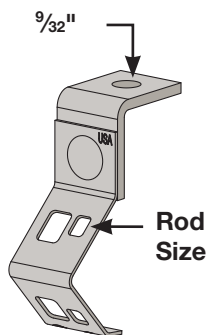


- **AB PCH:** Supports horizontal runs of conduit through metal studs and prevents conduit from rattling in wall.
- **NB PCH:** Attaches conduit to wood, concrete and steel, works with power tools and nails.
- Conduit clip rotates 360 degrees
- Suitable for air handling spaces (plenums) (remove washer at assembly)
- Retained combo head screw allows Robertson, Phillips/Slotted and Hex drivers.
- **Material:** Steel
- **Finish:** Pregalvanized

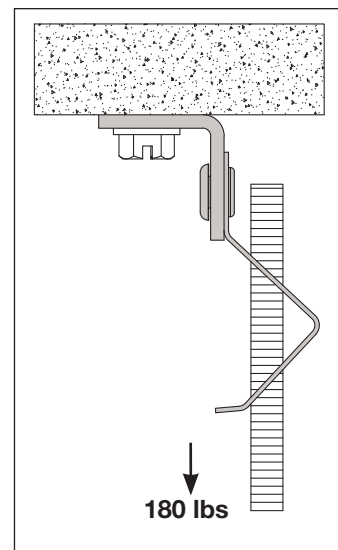
| Part No.    | Trade Size | Conduit Size |            |
|-------------|------------|--------------|------------|
|             |            | EMT          | Rigid      |
| ABPCH037050 | 0          | 1/2"         | 3/8", 1/2" |
| ABPCH075    | 1          | 3/4"         | 3/4"       |
| ABPCH100    | 2          | 1"           | 1"         |
| NBPCH037050 | 0          | 1/2"         | 3/8", 1/2" |
| NBPCH075    | 1          | 3/4"         | 3/4"       |
| NBPCH100    | 2          | 1"           | 1"         |

## ABR

Angle Bracket with Rod Hanger Push Install



- Attaches to concrete, wood and steel.
- Suspends plain and threaded rod from horizontal surfaces.
- Easy adjustment of rod after installation.
- **Material:** Steel & Spring Steel
- **Finish:** Pregalvanized & Silva-Guard



| Part No. | Rod Size                              |
|----------|---------------------------------------|
| ABRH4    | #8 Wire or 1/4" Plain or Threaded Rod |
| ABRH6    | 3/8" Plain or Threaded Rod            |



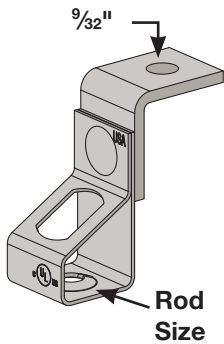
# Structural Attachment



Standard Finish: Silva-Guard (SG)

## ABR T

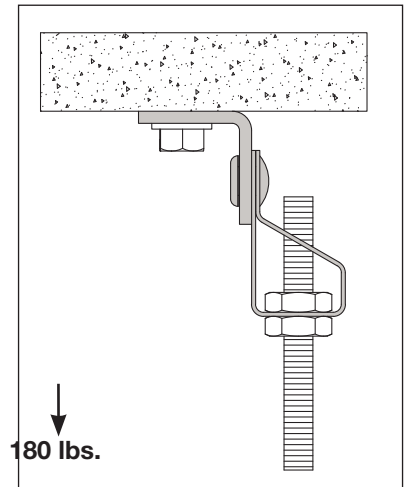
Angle Bracket with Rod Hanger Thread Install



- Attaches to concrete, wood and steel.
- Suspends threaded rod from horizontal surfaces.
- **Material:** Steel & Spring Steel
- **Finish:** Pregalvanized & Silva-Guard

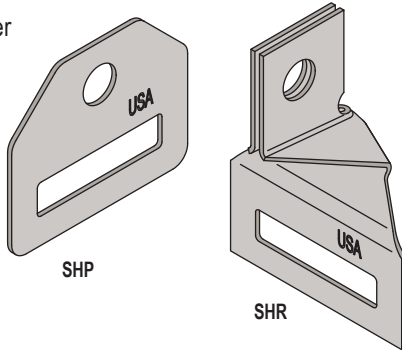
| Part No. | Rod Size                                       |
|----------|--|
| ABRH4T   | 1/4 - 20 Thread Form                           |
| ABRH6T   | 3/8 - 16 Thread Form                           |
| ABRTH6 * | 13/32" Thru Hole for 1/4" or 3/8" Threaded Rod |

\* Nuts sold separately

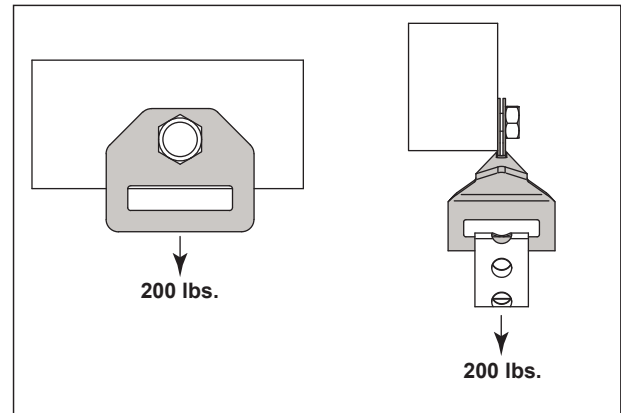


## SH

Strap Hanger



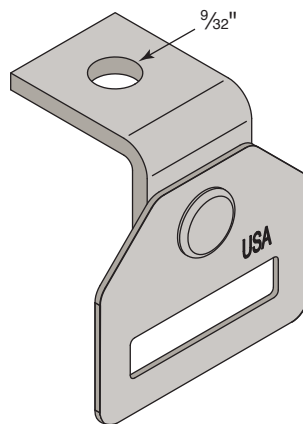
- Supports pipe or duct with strapping.
- Fits strap up to 1" wide.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



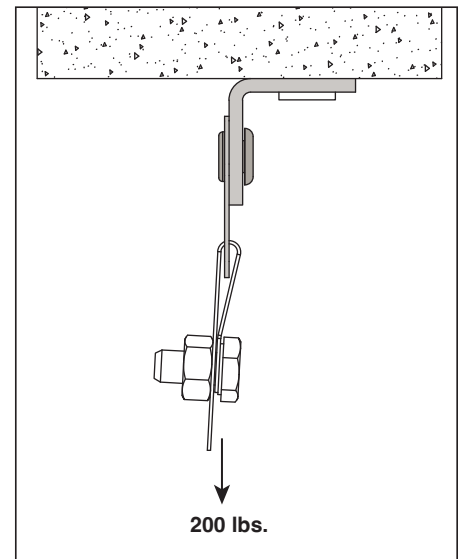
| Part No. | Hole Size |
|----------|-----------|
| SHP      | 9/16"     |
| SHR      | 9/16"     |

## ABSHP

Angle Bracket with Strap Hanger



- Supports pipe or duct with strapping.
- Fits strap up to 1" wide.
- **Material:** Steel & Spring Steel
- **Finish:** Pregalvanized & Silva-Guard



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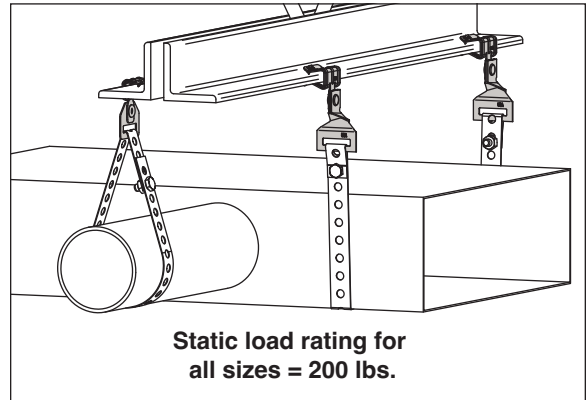
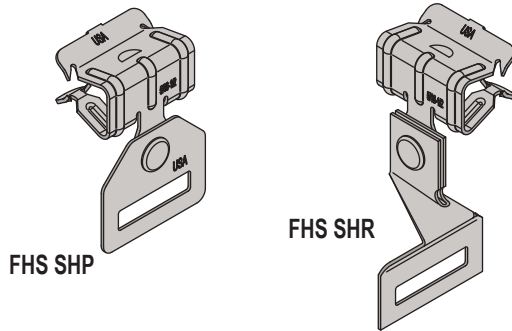
Rooftop Supports

Fiberglass System

Technical Data

## FHS SH

Flange Clip Side Mount with Strap Hanger

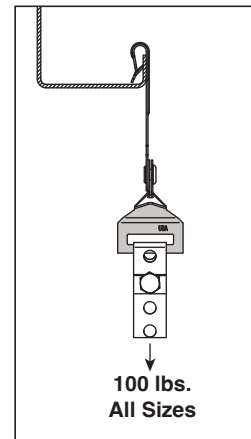
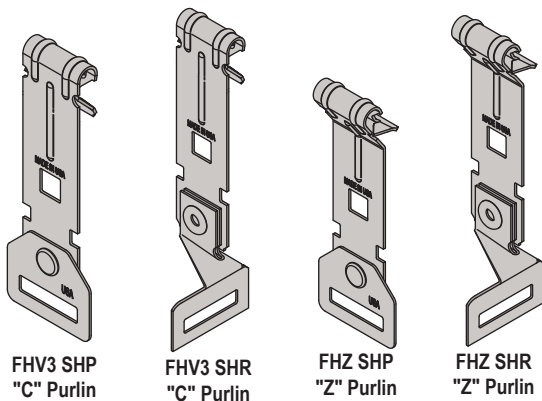


- Supports pipe or duct with strapping from beam flanges.
- Fits strap up to 1" wide.
- Flange thickness range stamped on part.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No.  | Min. - Max. Flange Thickness |
|-----------|------------------------------|
| FHS24SHP  | 1/8" - 1/4" (3mm - 6mm)      |
| FHS58SHP  | 5/16" - 1/2" (8mm - 13mm)    |
| FHS912SHP | 9/16" - 3/4" (14mm - 19mm)   |
| FHS24SHR  | 1/8" - 1/4" (3mm - 6mm)      |
| FHS58SHR  | 5/16" - 1/2" (8mm - 13mm)    |
| FHS912SHR | 9/16" - 3/4" (14mm - 19mm)   |

## FHV3 FHZ SH

Flange Hanger with Strap Hanger



- FHV SHP and SHR supports pipe or duct with strapping from "C" purlin flanges.
- FHZ SHP and SHR supports pipe or duct with strapping from "Z" purlin flanges.
- Fits strap up to 1" wide.
- Compatible with many industry standard installation tools.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No. | Min. - Max. Flange Thickness |
|----------|------------------------------|
| FHV3SHP  | 1/16" - 1/4"                 |
| FHV3SHR  | 1/16" - 1/4"                 |
| FHZSHP   | 1/16" - 1/4"                 |
| FHZSHR   | 1/16" - 1/4"                 |



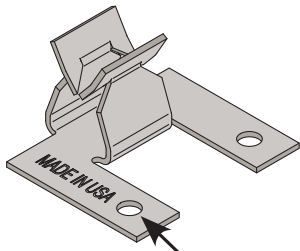
# Structural Attachment



Standard Finish: Silva-Guard (SG)

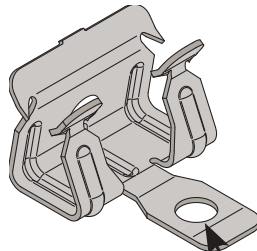
## PSP, FSM

Pipe Sleeve Positioner



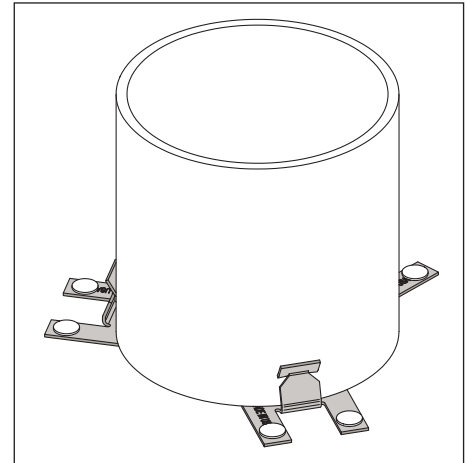
PSP

For 1/8" screw or nail



FSM

For 1/4" screw or nail

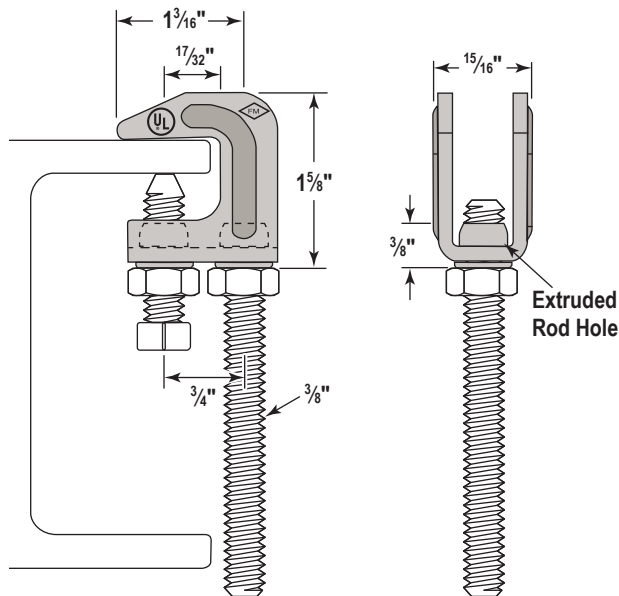


| Part No. | Sleeve Diameter          | Pipe Wall Thickness | Min./Max. Sleeve Thickness Range |
|----------|--------------------------|---------------------|----------------------------------|
| PSP2-6   | 2" - 6" (51mm - 152mm)   | Schedule #40 Pipe   | 0" - 5/16" (0 - 8mm)             |
| PSPA     | Any Dia.                 | Up to 5/16" (8mm)   |                                  |
| FSM58    | 6" (152mm)               | Schedule #80 Pipe   | 1/4" - 1/2" (6mm - 13mm)         |
| FSM58    | 8" - 10" (203mm - 254mm) | Schedule #40 Pipe   | 1/2" - 3/4" (13mm - 19mm)        |
| FSM912   | 9" - 14" (229mm - 356mm) | Schedule #80 Pipe   |                                  |

- Use to position pipe sleeves during concrete pours.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

## Silver Claw

Beam Clamp



- Carbon Steel - Avoids Hydrogen Embrittlement
- Extruded Rod Hole - More Threads Captured
- Made in USA - Meets Requirements for Buy America
- Handles 3/8" Threaded Rod
- Attaches to 3/4" (19mm) Beam or Bar Joist
- Open Back for Easy Inspection and Adjustment
- 3/4" (19mm) Flange Beam
- Zinc Electroplate
- Installs in Upright Position
- Torque Value = 60 in-lbs
- Made in USA
- UL Listed for Top of Beam
- FM Approved for NFPA 13, Maximum Rated Pipe Size
- Complies with Manufacturers Standardization Society SP-69 (Type 19 & 23) and Federal Specification WW-H-171E



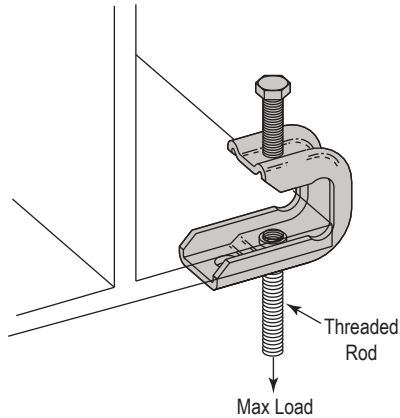
| Part No. | Rod Size | Max. Load |
|----------|----------|-----------|
| SCL037EG | 3/8"     | 400 Lbs.  |





## BC92

Light Duty – Beam Clamps

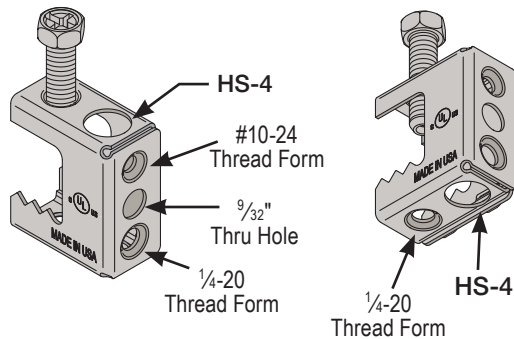


- Material: Carbon Steel
- Finish: ElectroGalvanized

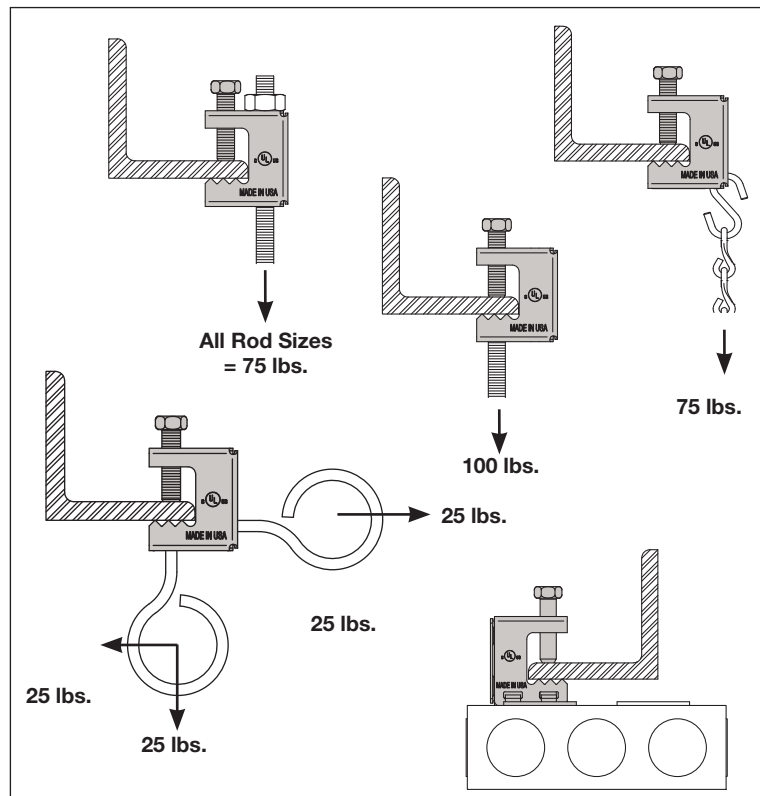
| Part No.  | Rod Size | Max Flange Thickness | Max Load (W) lbs |
|-----------|----------|----------------------|------------------|
| BC92025EG | 1/4"-20  | 5/8"<br>(16 mm)      | 100<br>(0.44kN)  |
| BC92037EG | 3/8"-16  | 3/4"<br>(19 mm)      | 200<br>(0.89kN)  |

## BCL

Beam Clamp



- UL Listed for box support.
- For installation on 1/2" maximum beam flanges.
- Included combo head set screw allows Robertson, Phillips/Slotted and Hex drivers.
- Accepts "S" hooks, threaded rod and bridal rings.
- Material: Spring Steel
- Finish: Silva-Guard



| Part No. | Max. Flange Thickness | HS-4                                  |
|----------|-----------------------|---------------------------------------|
| BCL      | 1/2"                  | 13/32" Thru Hole for 1/4" or 3/8" Rod |



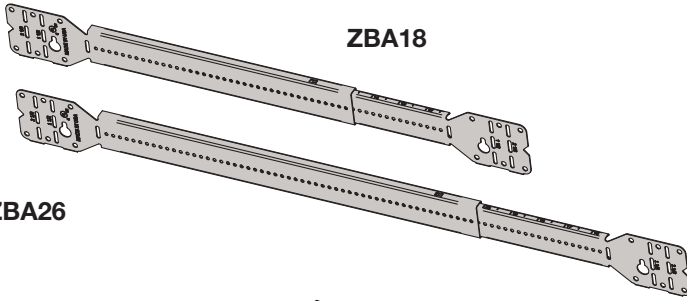
# Stud Wall Applications



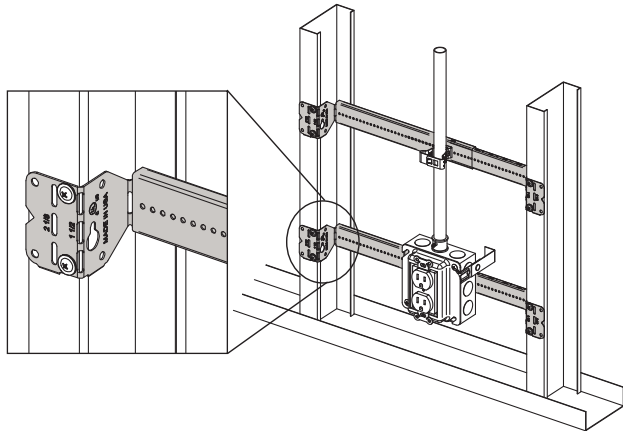
Standard Finish: Silva-Guard (SG) or Pregalvanized (PG)

## ZBA Z-Bracket

Adjustable Screw Gun Bracket for Wood or Metal Studs



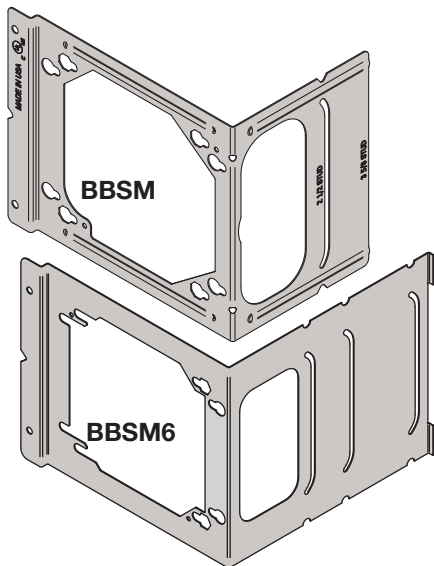
- Complete adjustability for infinite stud spacings.
- Requires only a screw gun to install.
- Pre-punched holes allow easy box or conduit attachment.
- Stud spacing scale stamped on bracket for precise preassembly.
- Locking tabs prevent disassembly.
- Use with SDTSLP8X1/2 screws, see page 236.
- **Material:** Steel
- **Finish:** Pregalvanized



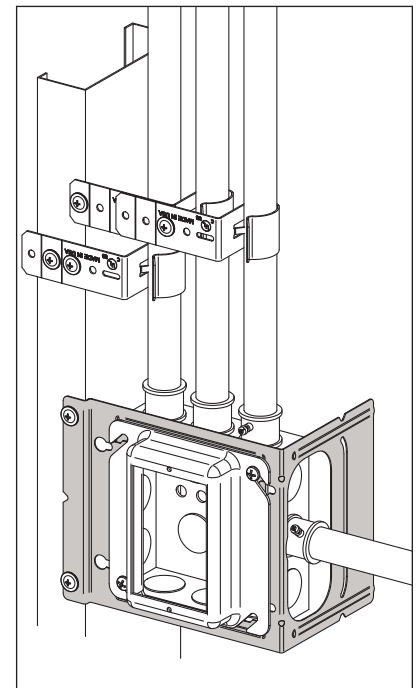
| Part No. | Stud Centers                   | Distance Between Studs             | Box Depth                          |
|----------|--------------------------------|------------------------------------|------------------------------------|
| ZBA18PG  | 11" to 18"<br>(279mm to 457mm) | 10" to 16-3/4"<br>(254mm to 425mm) | 1-1/2" or 2-1/8"<br>(38mm or 54mm) |
| ZBA26PG  | 16" to 26"<br>(406mm to 660mm) | 14" to 25-1/4"<br>(356mm to 641mm) |                                    |

## BBSM

Electrical Box Bracket for Wood or Metal Studs



- Used to attach 4" and 4-11/16" outlet boxes to wood or metal studs.
- Large cutouts provided for conduit and fittings.
- Integral farside support prevents outlet box movement.
- Use with SDTSLP8X1/2 screws, see page 236
- **Material:** Steel
- **Finish:** Pregalvanized



| Part No. | Outlet Boxes   | Box Depths  | Stud Depths                      |
|----------|--|---|----------------------------------|
| BBSM     | 4" (102mm) Square, 4-11/16" (119mm) Square and Low Voltage Plaster Rings | 1-1/4", 1-1/2", and 2-1/8" Deep<br>(32mm, 38mm, and 54mm) | 2-1/2", 3-5/8"<br>(64 mm, 92 mm) |
| BBSM6 *  |  |   | 5-1/2", 6"<br>(140 mm, 152 mm)   |

\* Not a UL Listed Product



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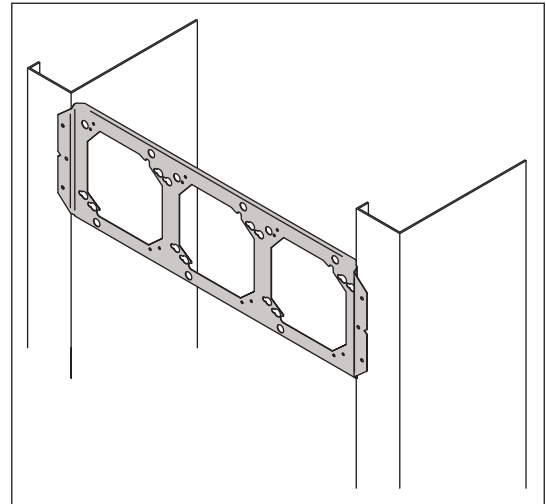
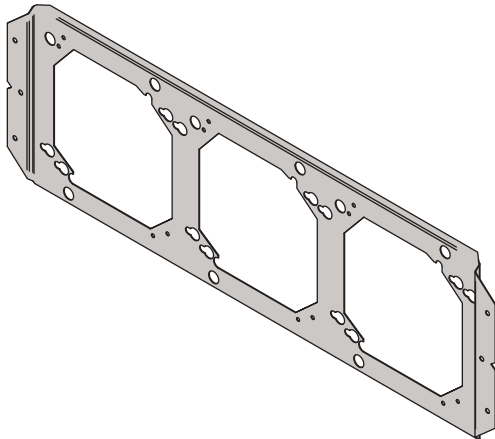
Roofing Supports

Fiberglass System

Technical Data

## BB16SM

Rigid Box Mounting Bracket

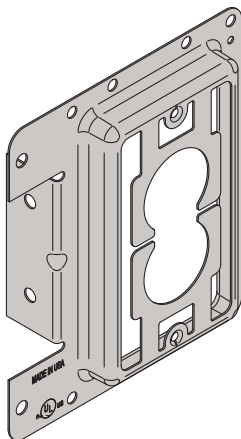


- Eliminates the need for electrical boxes in low voltage installations.
- Supports electrical boxes, plaster rings, or low voltage devices
- Use with SDTSLP8X1/2 screws, see page 236.
- **Material:** Steel
- **Finish:** Pregalvanized

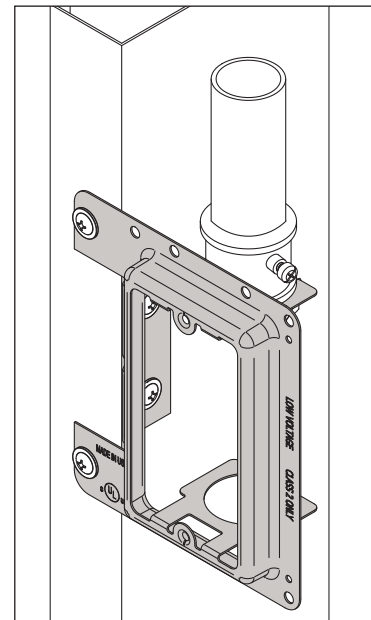
| Part No. | Stud Centers | Supports  |
|----------|--------------|---|
| BB16SM   | 16"          | Mounts up to three 4" and 4-11/16" boxes, plaster rings |

## LVMN

Low Voltage Mounting Plate for New Construction



- Wood or Metal Studs
- New work design requires a screw gun for installation.
- Inner tabs allow 3/4" EMT or 1/2" EMT with reducer fitting for conduit applications if required.
- Can be mounted vertically or horizontally on wood or metal studs.
- Replaces electrical box in Class 2 low voltage installations.
- Use with SDTSLP8X1/2 screws, see page 236.
- **Material:** Steel
- **Finish:** Pregalvanized



| Part No. | Drywall Thickness                |
|----------|----------------------------------|
| LVMN     | 1/2" thru 5/8"<br>(13mm to 16mm) |



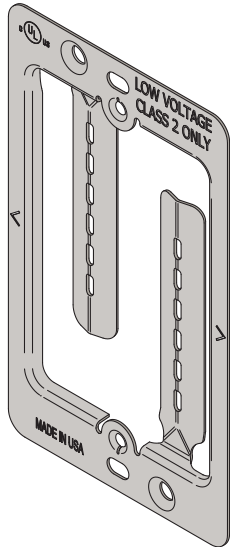
# Stud Wall Applications



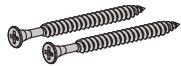
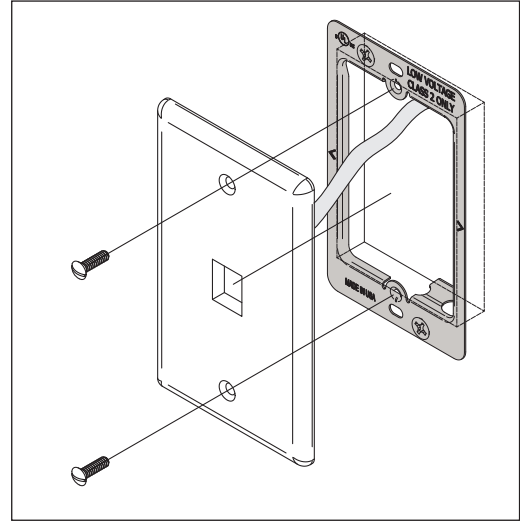
Standard Finish: Silva-Guard (SG) or Pregalvanized (PG)

## LVMS

Low Voltage Mounting Plate with Screws for Existing Construction



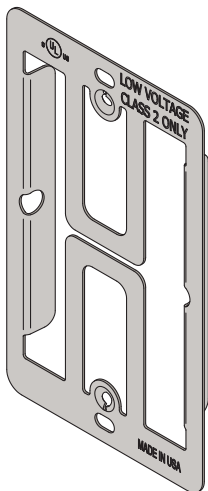
- Old work design requires a drywall saw and screw driver for installation.
- Provided screws make a more secure bracket installation.
- Replaces electrical box in Class 2 low voltage installations.
- **Material:** Steel
- **Finish:** Pregalvanized



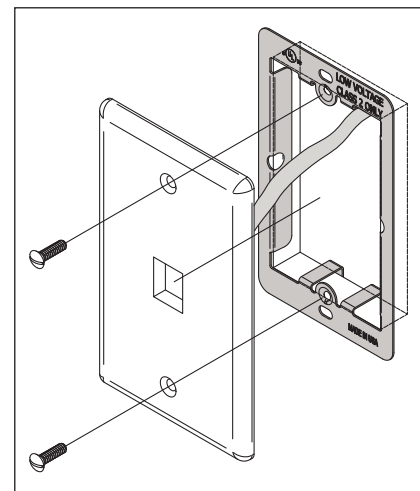
| Part No. | Drywall Thickness                  |
|----------|------------------------------------|
| LVMS     | 1/2" thru 1-1/4"<br>(13mm to 32mm) |

## LVMP

Low Voltage Mounting Plate for Existing Construction



- Old work design requires a drywall saw and screw driver for installation.
- Replaces electrical box in Class 2 low voltage installations.
- **Material:** Steel
- **Finish:** Pregalvanized

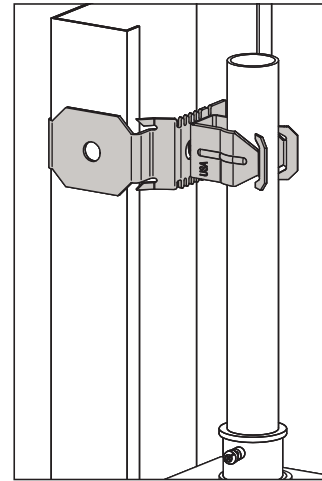
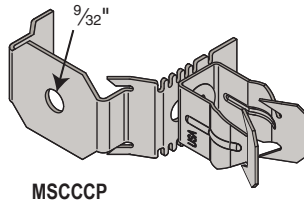
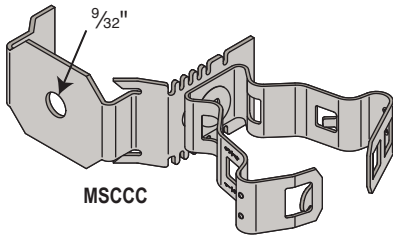


| Part No. | Drywall Thickness                  |
|----------|------------------------------------|
| LVMP     | 1/2" thru 1-1/4"<br>(13mm to 32mm) |



## MSCCC, MSCCCP

Metal Stud Clip with Conduit Clip & Conduit "Push In" Clip



**UL**  
LISTED  
MSCCC Only

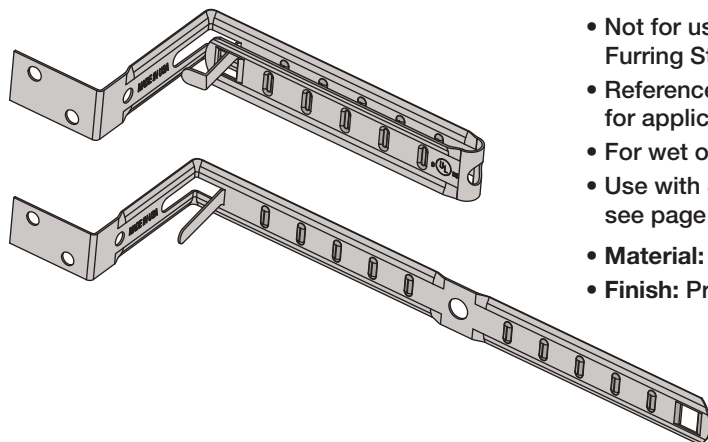
- Supports pipe and conduit to studs.
- Hole provided for additional support.
- Use with SDTSLP8X1/2 screws, see page 236.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No.    | Hole Size | Conduit Size            |
|-------------|-----------|-------------------------|
| * MSCCC6    | 9/32"     | 3/8" Flexible Conduit   |
| * MSCCC8-12 |           | 1/2" or 3/4" EMT, Rigid |
| * MSCCC16   |           | 1" EMT, Rigid           |
| * MSCCC20   |           | 1-1/4" EMT, Rigid       |
| MSCCCP8     | 9/32"     | 1/2" EMT                |
| MSCCCP12    |           | 3/4" EMT, 1/2" Rigid    |
| MSCCCP16    |           | 1" EMT, 3/4" Rigid      |

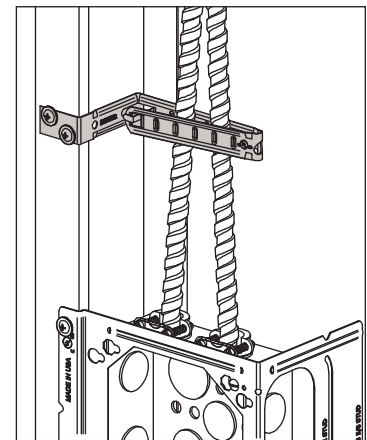
\* Not a UL Listed Product

## CSSTS

Cable Support Strap for Wood or Metal Studs



- Not for use with Hat Channel or Furring Strips.
- Reference NEC 1990 Article 300-4d for application
- For wet or dry applications.
- Use with SDTSLP8X1/2 screws, see page 236.
- **Material:** Steel
- **Finish:** Pregalvanized



**UL**  
LISTED

| Part No. | Cable Type                             | Cable Size   | Cables per Fastener | Description   |
|----------|--|--|---------------------|---|
| CSSTS    | Romex™ and Non-Metallic Sheathed Cable | 14-2, 12-2, 10-2, 14-3, 12-3, and 10-3 with ground                   | 6 Max.              | To Attach Romex Non-Metallic Sheathed Cable, AC, BX, and MC Cable to Wood or Metal Stud |
|          |  | 8-2 and 6-2 with ground  | 4 Max.              |   |
|          | Metal Clad (MC) Cable                  | 14-2, 12-2, 10-2, 14-3, 12-3, 10-3, 14-4, 12-4, and 10-4 with ground | 4 Max.              |   |





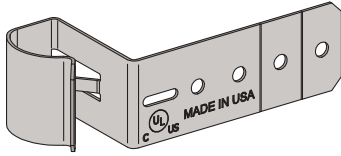
# Stud Wall Applications



Standard Finish: Silva-Guard (SG) or Pregalvanized (PG)

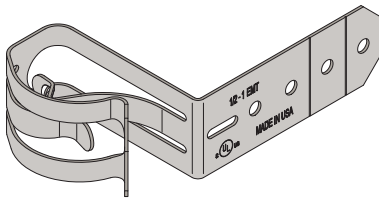
## CTS

Conduit Clip to Wood or Metal Stud



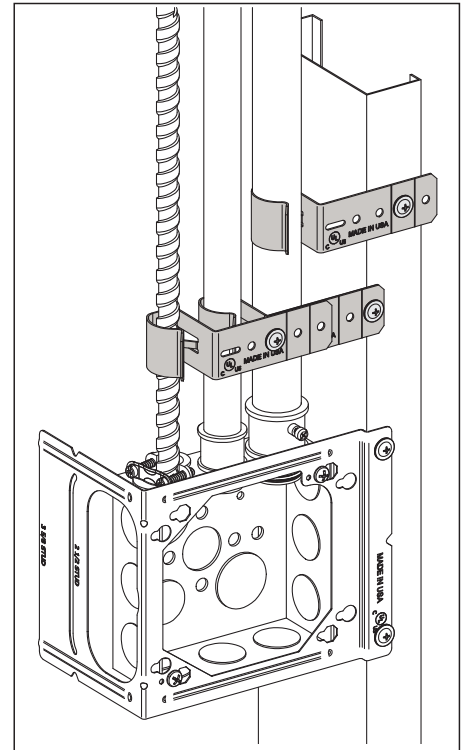
- Use with low profile screws SDTSLP8X1/2, see page 236.
- For positioning only.
- For wet or dry applications..
- **Material:** Spring Steel
- **Finish:** Silva-Guard

### CTS812



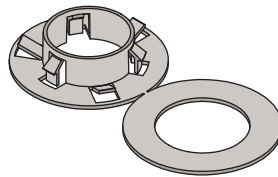
### CTS816D

| Part No. | Box Depth     | MC/AC Cable Size          | Conduit Size                             |
|----------|---------------|---------------------------|--|
| CTS812   | 1-1/2" (38mm) | 14-2, 14-3,<br>12-2, 12-3 | 1/2" or 3/4" EMT MC/AC<br>(13mm or 19mm) |
| CTS816D  | 2-1/8" (54mm) |                           | 1/2" or 1" EMT<br>(13mm or 25mm)         |



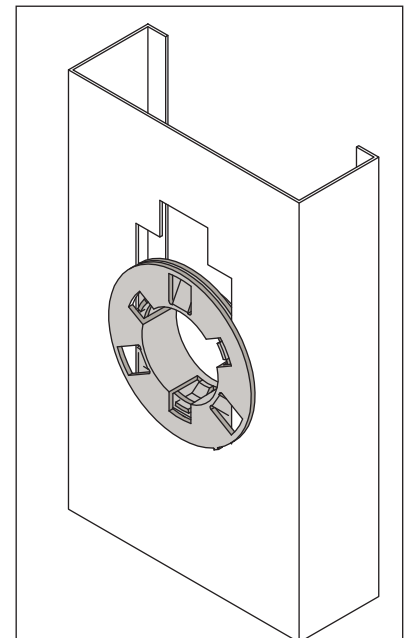
## USG

Universal Stud Grommet



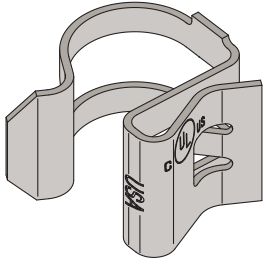
- Quick snap on design for 24 gauge to 12 gauge metal studs.
- Protects cable and conduit from damage.
- Makes cable pulling easy by preventing hang-ups on metal edges.
- Universal design for many pre-punched square and round hole sizes.
- **Material:** Polypropylene

| Part No. | Pre-Punch Hole Grommet O.D. | Grommet I.D. |
|----------|-----------------------------|--------------|
| USG      | 1 1/2" (34.1mm)             | 1.20" (30mm) |

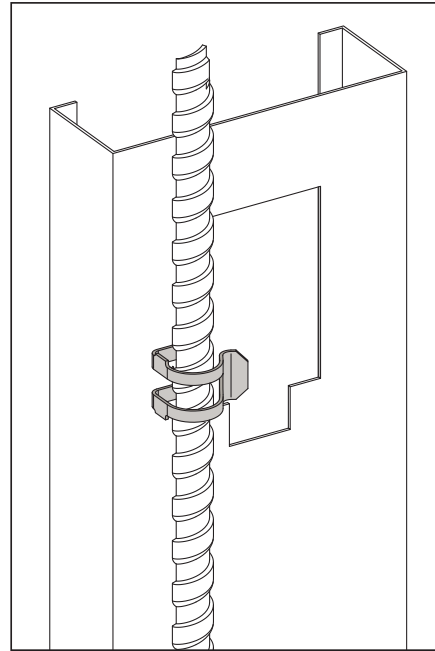


## CCMS

MC/AC Cable Clip to Metal Stud



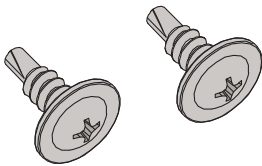
- Cable clip attaches MC/AC cable to metal studs.
- No tools required for application.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



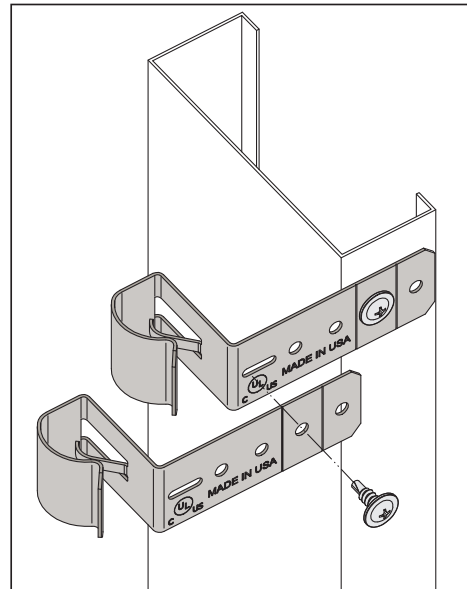
| Part No. | Cable Type  | Cable Size             | Description                    |
|----------|-------------|------------------------|--------------------------------|
| CCMS     | MC/AC Cable | 14-2, 14-3, 12-2, 12-3 | MC/AC Cable Clip to Metal Stud |

## SDTSLP8X1/2

Self Drilling and Tapping Screw



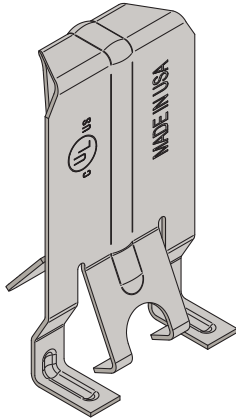
- #8 x 1/2" Long Self drilling and tapping, low profile screws
- Thin head prevents drywall bulge.
- #2 phillips driver for screw gun use.
- **Material:** Steel
- **Finish:** Electrogalvanized



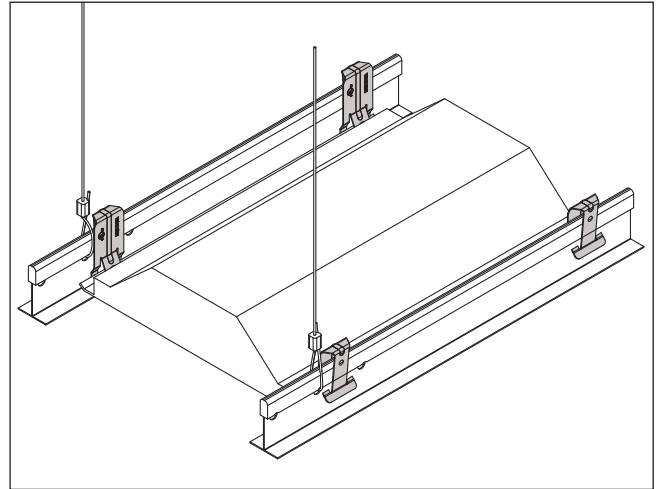
Standard Finish: Silva-Guard (SG)

## SCT

Support Clip for Troffer Lights & Lay-Ins



- Four clips per fixture required per UL listing.
- Compatible with straight lip or upturned lip fixtures.
- Tall grid compatible.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



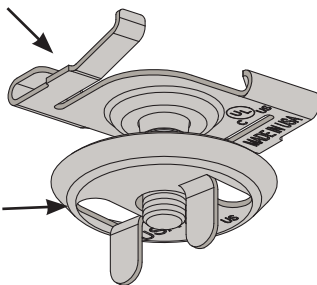
| Part No. | Description   |
|----------|---|
| SCT15    | Support clip for securing troffers, lay-ins and air diffusers to T-Grid |

## TCB, TCS

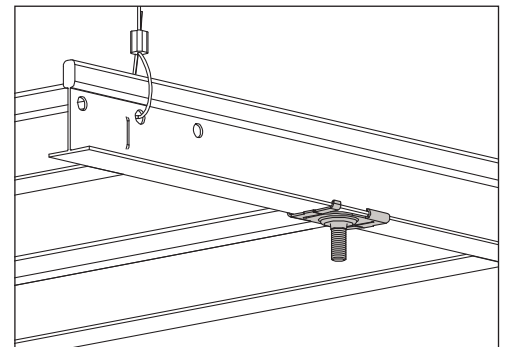
Twist Clip with Wing Nut



### TCB16



- Use to attach lighting to main T-bars.
- Simple twist on design eliminates the need for installation tools.
- Will not damage T-grid.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



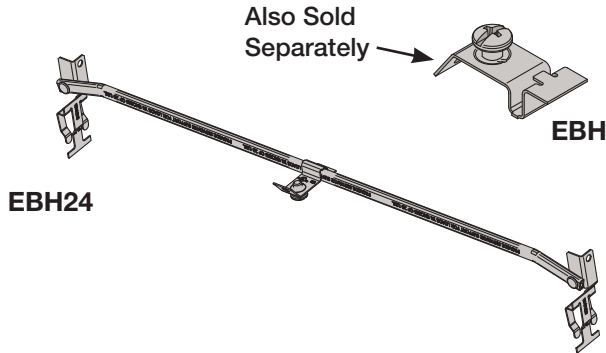
| Part No. | Stud Length | Description                        | Static Load Limit per Fastener |
|----------|-------------|------------------------------------|--------------------------------|
| TCB16    | 5/8"        | 15/16" Tee Twist Clip with Stud    | 50 Lbs.                        |
| TCW4     | -           | 1/4"-20 Twist Clip Wing Nut        | 100 Lbs.                       |
| TCS16    | 5/8"        | 15/16" Tee Twist Clip and Wing Nut | 50 Lbs.                        |





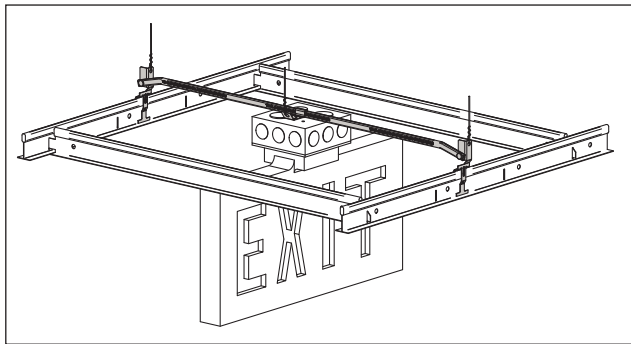
## EBH

Electrical Box Hanger with Box Mounting Clip



EBH24

EBH

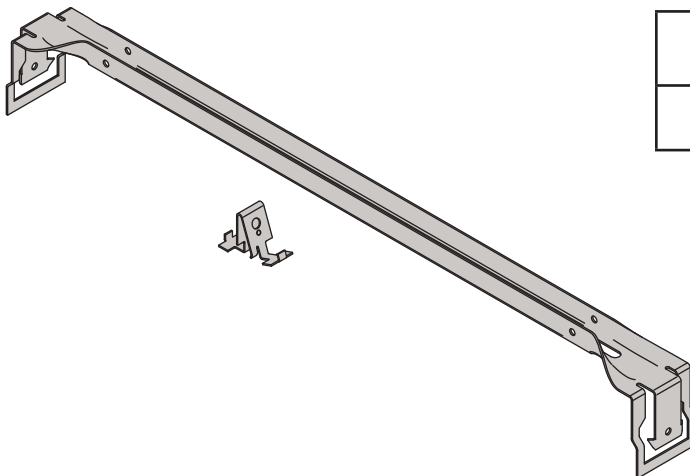


| Part No. | Description  |
|----------|--|
| EBH24    | Complete assembly to flush mount a 1-1/2" box with or without 3/4" device ring or 2-1/8" box to ceiling tile. Used for 24" on center T-grid spacing. |
| EBH      | Box mounting clip and screw for attaching one or multiple boxes to EB 24 assembly.   |

- Complete hanger assembly for supporting an electrical box above T-grid.
- Multiple holes provided for drop wire securement to building structure.
- Dual height feature permits 1-1/2" electrical box with or without 3/4" device ring and 2-1/8" box to be flush mounted with ceiling tile.
- Included mounting clip and 1/4" screw is compatible with standard knock-out configurations.
- **Material:** Steel & Spring Steel
- **Finish:** Pregalvanized & Silva-Guard

## EBH24HD

T-Grid Box Electrical Box Hanger – Heavy Duty



| Part No. | Description  |
|----------|--|
| EBH24HD  | Heavy duty electrical box hanger with box mounting clip for 24" span and 2-1/8" and 1-1/2" boxes |

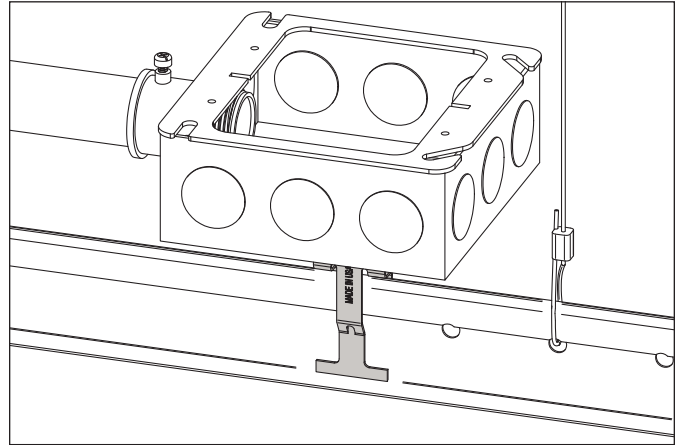
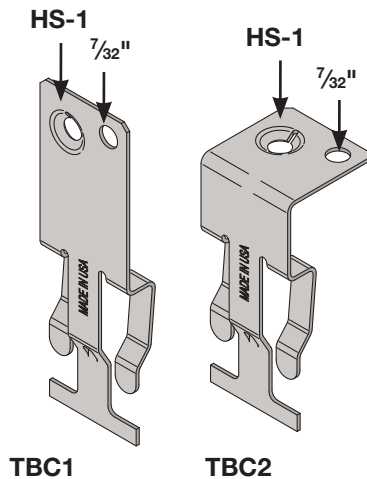
- Easy attachment for supporting an electrical box from T-grid.
- Easily adjust height for 1-1/2" box by breaking tabs.
- Easy attachment for drop wire securement to clip or bar.
- **Material:** Steel
- **Finish:** Pregalvanized



Standard Finish: Silva-Guard (SG)

## TBC

T-Bar Clip

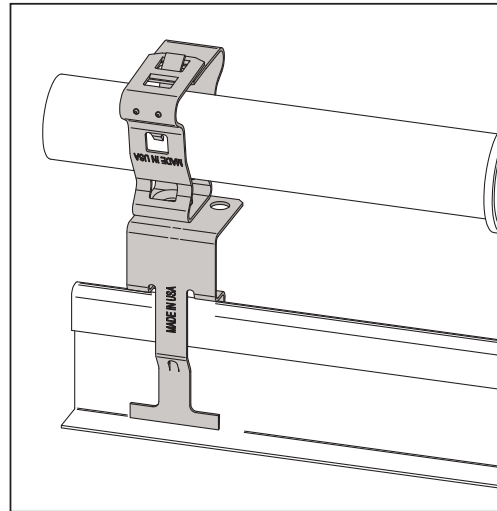
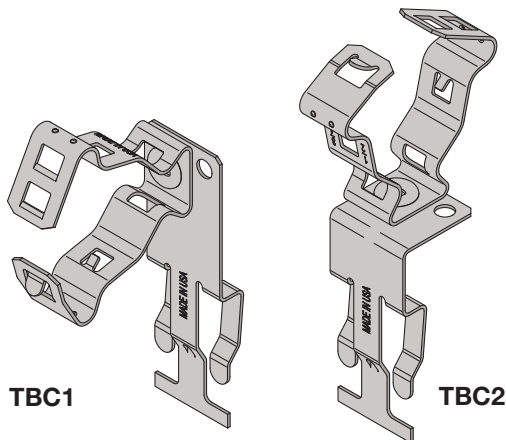


- Attaches outlet boxes and conduit clips above T-grid.
- $\frac{7}{32}$ " hole provided for drop wire.
- Clip snaps onto T-bar. No tools required.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No. | HS-1                             |
|----------|----------------------------------|
| TBC1     | $\frac{1}{4}$ " x 20 Thread Form |
| TBC2     | $\frac{1}{4}$ " x 20 Thread Form |

## TBC

T-Bar Clip with Conduit Clip



- Supports pipe and conduit above T-bars.
- Conduit clip rotates 360 degrees.
- No screws or bolts required. No installation tools required.
- $\frac{7}{32}$ " Hole provided for drop wire.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

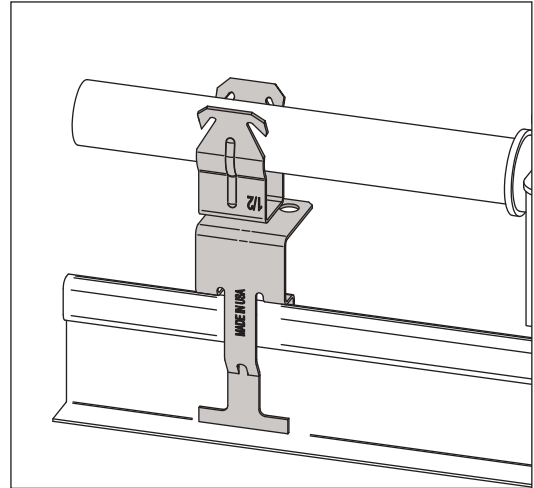
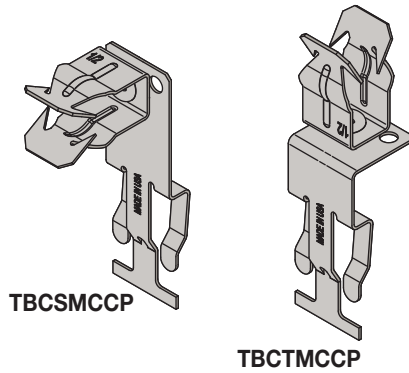
| Part No. | Conduit Size                                  |
|----------|---|
| TBC1C6   | $\frac{3}{8}$ " Flexible Conduit              |
| TBC1C812 | $\frac{1}{2}$ " or $\frac{3}{4}$ " EMT, Rigid |
| TBC1C16  | 1" EMT, Rigid                                 |
| TBC2C6   | $\frac{3}{8}$ " Flexible Conduit              |
| TBC2C812 | $\frac{1}{2}$ " or $\frac{3}{4}$ " EMT, Rigid |
| TBC2C16  | 1" EMT, Rigid                                 |





## TBC SMCCP, TMCCP

T-Bar Clip with Conduit "Push In" Clip

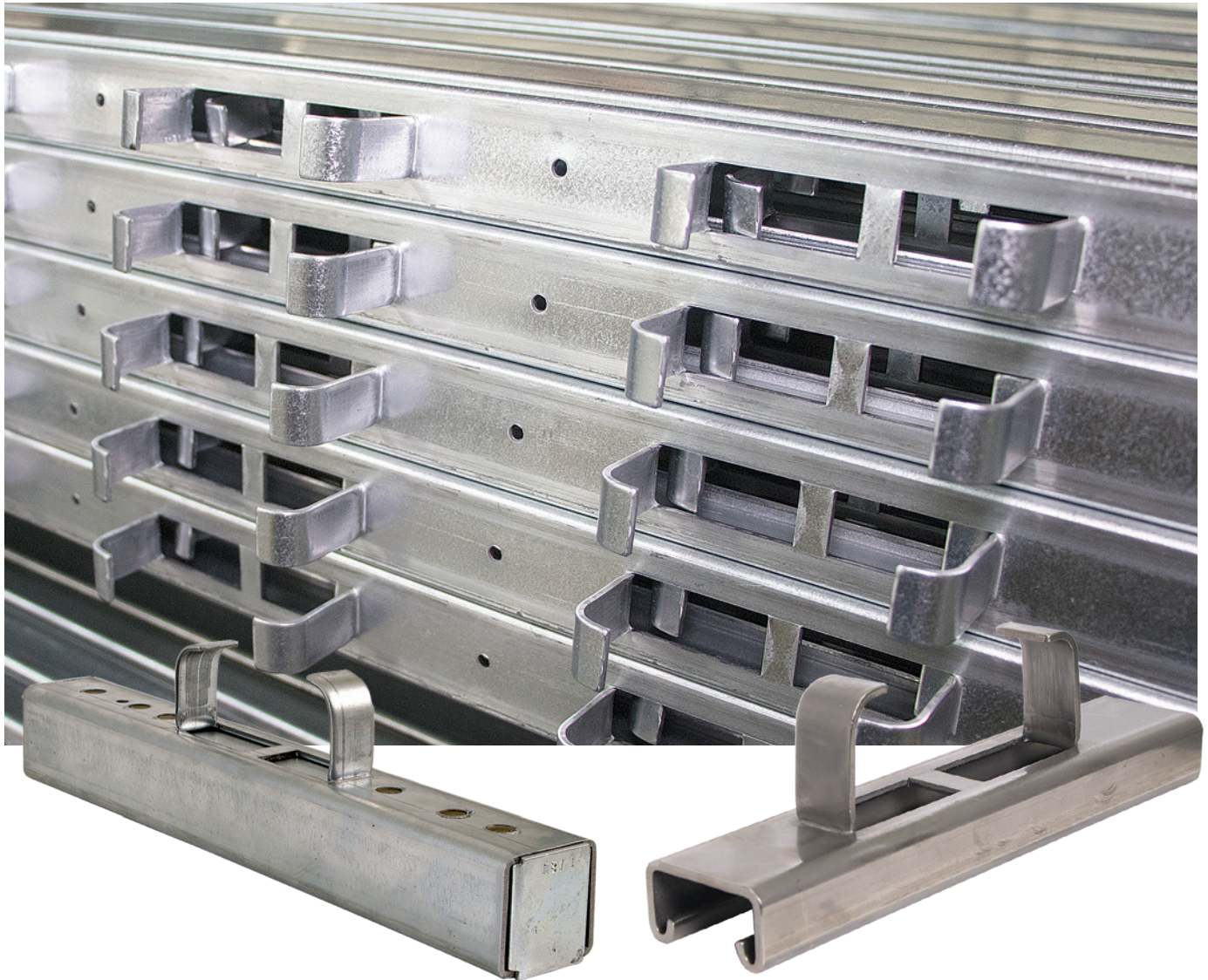


- Supports pipe and conduit above T-bars.
- Conduit clip rotates 360 degrees.
- No screws, bolts or installation tools required.
- 7/32" hole provided for drop wire.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

| Part No.   | Mount      | Conduit Size         |
|------------|------------|----------------------|
| TBCSMCCP8  | Side Mount | 1/2" EMT             |
| TBCSMCCP12 |            | 3/4" EMT, 1/2" Rigid |
| TBCSMCCP16 |            | 1" EMT, 3/4" Rigid   |
| TBCTMCCP8  | Top Mount  | 1/2" EMT             |
| TBCTMCCP12 |            | 3/4" EMT, 1/2" Rigid |
| TBCTMCCP16 |            | 1" EMT, 3/4" Rigid   |



# Concrete Inserts

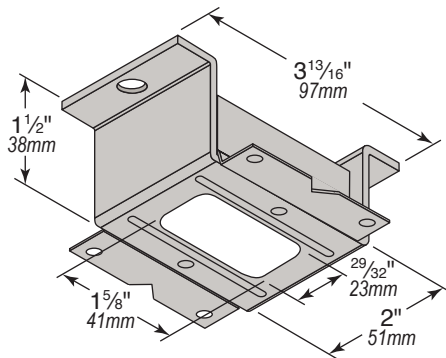


| Channel Material Specifications |                    |  |
|---------------------------------|--------------------|--|
| Material                        | ASTM Designation   | ASTM Description   |
| Hot Rolled: Channel             | A 1011SS GR33      | Hot rolled carbon steel sheet and strip, structural quality.   |
| Cold Rolled: Channel            | A 1008SS GR33      | Cold rolled carbon sheet steel.  |
| Stainless Steel: Channel        | A 240 TYPE 304     | Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel. |
|                                 | A 240 TYPE 316     |  |
| Aluminum: Channel               | B 221 TYPE 6063 T6 | Aluminum alloy extruded bar, rod, wire, shape and tube.  |

| Channel Finish Specifications        |  |
|--------------------------------------|--|
| Finish                               | Description  |
| Mill-Galvanized (Pre-Galvanized)     | Galvanized steel used in the manufacture of Channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present. |
| Paint-Green Powder Coating           | A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.   |
| Electroplated                        | Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.  |
| Hot Dip Galvanized After Fabrication | Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications: ASTM A 123, ASTM A153, or ASTM A386.                       |
| Special Coatings                     | Other commercially available finishes can be supplied per specification when required to protect applications.   |

See page 23 for Material or Finish ordering codes for part numbers.

### Spot Concrete Insert

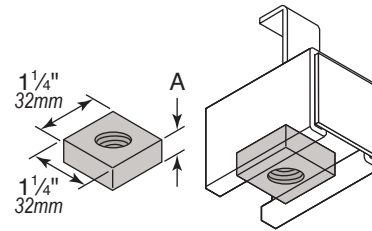


Designed to be used with spot concrete insert nuts. The 7/8" x 1-5/8" knock-out is removed after concrete pour. The spot concrete insert nut is placed in the slot, and then the rod is screwed into the nut. The nut is secured in place by turning the rod. Lateral adjustment is made by loosening the nut and relocating. When selecting rod size, refer to "Load Ratings" of Thread Hanger Rods" chart on page 78.

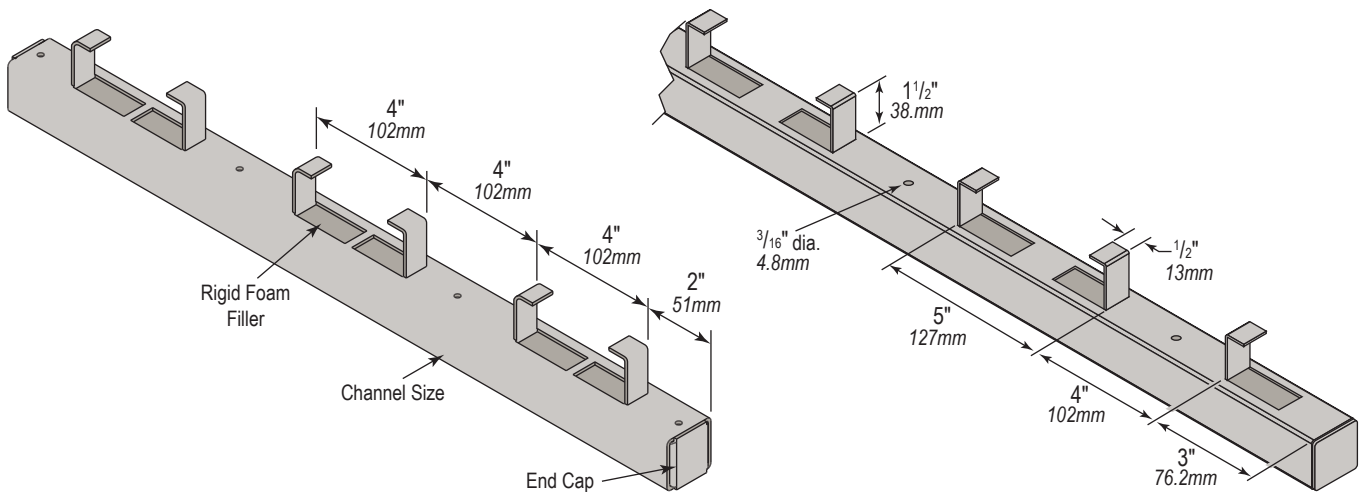
| SPECIFYING Brand & Part No. | Allowable Load Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------------|--------------------------------|---------------|
|                             |                          | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                          |                                |               |
| <b>W7000</b>                | 1,300 (2.67 kN)          | VC1                            | CI            |

Load based on adequate concrete

### Concrete Insert Nut



| SPECIFYING Brand & Part No. | Tapped Size        | Blank Size "A" | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------|----------------|--------------------------------|---------------|
|                             |                    |                | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b>              |                    |                |                                |               |
| <b>WCN25</b>                | 1/4"-20            | 1/4" (6mm)     | VCN25                          | CIN 0025      |
| <b>WCN31</b>                | 5/16"-18           |                | VCN31                          | --            |
| <b>WCN37</b>                | 3/8"-16            | 3/8" (10mm)    | VCN37                          | CIN 0037      |
| <b>WCN37+RP</b>             | 3/8"-16 - Pipe Tap |                | VCN37-RP                       | --            |
| <b>WCN50</b>                | 1/2"-13            |                | VCN50                          | CIN 0050      |
| <b>WCN50-RP</b>             | 1/2"-13 - Pipe Tap | 1/2" (13mm)    | VCN50-RP                       | --            |
| <b>WCN62</b>                | 5/8"-11            |                | VCN62                          | CIN 0062      |
| <b>WCN75</b>                | 3/4"-10            |                | VCN75                          | CIN 0075      |
| <b>WCN87</b>                | 7/8"-9             |                | --                             | CIN 0087      |



| SPECIFYING Brand & Part No.    | See Page | Channel Gauge | Channel Size                  | DISCONTINUED Brands & Part No. |                         |
|--------------------------------|----------|---------------|-------------------------------|--------------------------------|-------------------------|
|                                |          |               |                               | VERSABAR                       | FLORIDA STRUT           |
| <b>WESANCO</b>                 |          |               |                               |                                |                         |
| <b>W7250 thru W7270 Series</b> | 244      | 12 gauge      | 1-5/8" (41mm) x 1-5/8" (41mm) | VC1000 Series                  | W7250 thru W7270 Series |
| <b>W7350 thru W7370 Series</b> | 245      |               | 1-5/8" (41mm) x 1-3/8" (35mm) | VC6000 Series                  | W7350 thru W7370 Series |
| <b>W7550 thru W7570 Series</b> | 246      |               | 1-5/8" (41mm) x 1" (35mm)     | VC10000 Series                 | W7550 thru W7570 Series |
| <b>W7954 thru W7970 Series</b> | 247      |               | 1-5/8" (41mm) x 7/8" (22mm)   | --                             | W7954 thru W7970 Series |

\* Flared Wedge Insert

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



## Standard Finish: Pre-Galvanized (PG)

### Continuous Inserts

Our Inserts Are Shipped Fully Assembled,  
Ready For Installation.

Hook style inserts are available in W200, W300, W800, and W900 channel sizes, with either a galvanized or plain finish. Continuous inserts provide economical and convenient attachment points for all strut system components without the use of hazardous powder actuated fasteners or costly drilling. Connections can be made at any point along the slot opening by using lateral locking nuts or square insert nuts. Square nuts shown on page 242 may be used with the following continuous concrete inserts. Hook style anchors are lanced out of the channel spine and spaced as shown in the accompanying diagram.  $\frac{3}{16}$ " diameter knock-outs are spaced at 9" (229mm) intervals for nailing inserts to the form. Continuous hook style inserts are shipped ready for installation with factory installed Cello-Foam filler strip, taped spine openings, and end caps to prevent concrete seepage. Hook style inserts 18" or shorter are factory equipped with anchor style end caps.

NOTE: To reach maximum resistance to pull out of the nut in continuous concrete inserts, a fitting should be mounted on the slot surface and the rod or bolt connected. Without the exterior fitting, the nut pull out resistance is reduced to approximately one half the normal pull out. Pull out load ratings for channel nuts are shown on page 70 of this catalog.

NOTE Under no circumstances subject any channel insert to a load without a  $\frac{1}{4}$ " thick fitting, bracket or pipe support, mounted on the channel slot surface.

## Continuous Concrete Insert Part Number Selection Chart For All Inserts on Pages 244 thru 247

| Continuous Concrete Insert Part Number Descriptions |                 |  |                 |                       |
|---|-----------------|--|-----------------|-----------------------|
| Base Profile Part Number                            | Add Option Code | Description of Options                             | Add Finish Code | Completed Part Number |
| W7270   | N               | Insert Only  | PG              | W7270NPG              |
| W7270   | C               | Insert & End Caps Only                             | PG              | W7270CPG              |
| W7270   | F               | Insert, Tape, & Foam Only                          | PG              | W7270FPG              |
| W7270   | FC              | Insert, Tape, Foam, & End Caps                     | PG              | W7270FCPG             |
| W7270   | E               | Insert, Tape, & Ethafoam Only                      | PG              | W7270EPG              |
| W7270   | EC              | Insert, Tape, Ethafoam, & End Caps                 | PG              | W7270ECPG             |
| W7270   | W               | Insert & Welded Strip Only                         | PG              | W7270WPG              |
| W7270   | WC              | Insert, Welded Strip, & End Caps **                | PG              | W7270WCPG             |
| W7270   | WCC             | Insert, Welded Strip, Closure Strip, & End Caps ** | PG              | W7270WCCPG            |

\*\* Note: When using welded strip, plastic end caps will be used.  
Stainless steel sizes with Anchor end caps, the end caps will be hot dip galvanized



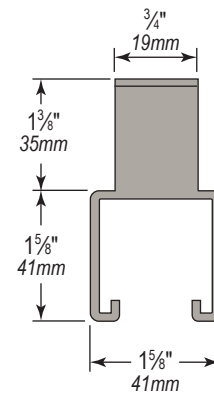
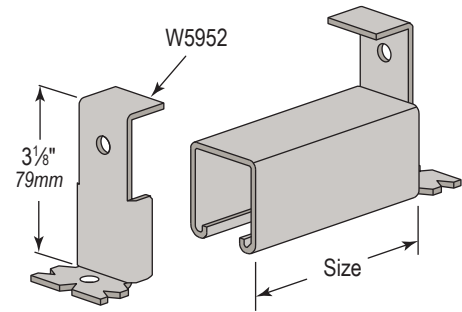
Hole Diameter:  $\frac{9}{16}$ " (14mm); Hole Spacing - From End:  $\frac{13}{16}$ " (21mm); Hole Spacing - On Center:  $1\frac{7}{8}$ " (48mm); Width:  $1\frac{5}{8}$ " (41mm); Thickness:  $\frac{1}{4}$ " (6mm)



### Concrete Inserts - 1<sup>5</sup>/<sub>8</sub>" x 1<sup>5</sup>/<sub>8</sub>" - 12 Gauge

When ordering specify finish. Available in plain, pre-galvanized, hot dip galvanized after fabrication, type 304 and 316 stainless steel. Stainless steel sizes with Anchor end caps, the end caps will be hot dip galvanized

Refer to page 243 for continuous concrete insert part number selection chart to build complete part number based on desired options.



| SPECIFYING<br>Brand & Part No. | Size            | Safe Uniform<br>Load per L.F. †<br>Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|--------------------------------|-----------------|--|--------------------------------|---------------|
|                                |                 |  | VERSABAR ♦                     | FLORIDA STRUT |
| WESANCO W7250                  | 4" (102mm)      | 800 (3.56 kN)                                | --                             | W7250         |
| W7251                          | 6" (152mm)      | 1000 (4.45 kN)                               | VC1006                         | W7251         |
| W7252                          | 8" (203mm)      | 1200 (5.34 kN)                               | --                             | W7252         |
| W7253 *                        | 12" (305mm)     | 2000<br>(8.90 kN)                            | VC1012                         | W7253 *       |
| W7254                          | 16" (406mm)     |  | --                             | W7254         |
| W7255                          | 20" (508mm)     |  | --                             | W7255         |
| W7256                          | 24" (610mm)     |  | VC1024                         | W7256         |
| W7257                          | 32" (813mm)     |  | --                             | W7257         |
| W7257A                         | 36" (914mm)     |  | VC1036                         | W7257A        |
| W7258                          | 40" (1016mm)    |  | --                             | W7258         |
| W7259                          | 4' - 0" (1.2m)  |  | VC1048                         | W7259         |
| W7260                          | 5' - 0" (1.5m)  |  | VC1060                         | W7260         |
| W7261                          | 6' - 0" (1.8m)  |  | VC1072                         | W7261         |
| W7262                          | 7' - 0" (2.1m)  |  | VC1084                         | W7262         |
| W7263                          | 8' - 0" (2.4m)  |  | VC1096                         | W7263         |
| W7264                          | 9' - 0" (2.7m)  |  | VC1108                         | W7264         |
| W7265                          | 10' - 0" (3.0m) |  | VC1120                         | W7265         |
| W7266                          | 12' - 0" (3.6m) |  | VC1144                         | W7266         |
| W7267                          | 14' - 0" (4.2m) |  | VC1168                         | W7267         |
| W7268                          | 16' - 0" (4.8m) |  | VC1192                         | W7268         |
| W7269                          | 18' - 0" (5.4m) |  | VC1216                         | W7269         |
| W7270                          | 20' - 0" (6.1m) |  | VC1240                         | W7270         |

\* W7253 utilizes tab channel (punched & anchor caps)

† Embedded in 3,000 psi or better concrete, Safety Factor = 3

♦ Versabar dimensions are different

Concentrated load on the end 2" (51mm) of W7252 thru W7270 should not exceed 1000#. Inserts must be surrounded by sufficient concrete to conform to design shear stress. Concrete insert should be nailed to form every 16" to 24" (406mm to 635mm)

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 1 3/8" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)





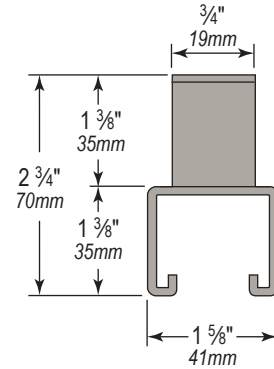
# Concrete Inserts



Standard Finish: Pre-Galvanized (PG)

## Concrete Inserts - 1<sup>5</sup>/<sub>8</sub>" x 1<sup>3</sup>/<sub>8</sub>" - 12 Gauge

When ordering specify finish. Available in plain, pre-galvanized, hot dip galvanized after fabrication, type 304 and 316 stainless steel. Stainless steel sizes with Anchor end caps, the end caps will be hot dip galvanized. Refer to page 243 for continuous concrete insert part number selection chart to build complete part number based on desired options.



| SPECIFYING Brand & Part No. | Size            | Max Allowable Point Load Lbs. (kN) | Min. Spacing of Point Load In. (mm) | Max Allowable Uniform Load | DISCONTINUED Brands & Part No. |               |       |
|-----------------------------|-----------------|------------------------------------|-------------------------------------|----------------------------|--------------------------------|---------------|-------|
|                             |                 |                                    |                                     |                            | VERSABAR ♦                     | FLORIDA STRUT |       |
| WESANCO                     |                 |                                    |                                     |                            |                                |               |       |
| W7350                       | 4" (102mm)      | 800 (3.56 kN)                      | -                                   | 800 (3.56 kN)              | --                             | W7350         |       |
| W7351                       | 6" (152mm)      | 1,000 (4.45 kN)                    | -                                   | 1,000 Lbs. (4.45 kN)       | VC6006                         | W7351         |       |
| W7352                       | 8" (203mm)      | 1,200 (5.34 kN)                    | -                                   | 1,200 Lbs. (5.34 kN)       | --                             | W7352         |       |
| W7353 *                     | 12" (305mm)     | 2,000 (8.90 kN)                    | 12" (305mm)                         | 2,000 Lbs. (8.90 kN)       | VC6012                         | W7353 *       |       |
| W7354                       | 16" (406mm)     |                                    |                                     |                            | --                             | W7354         |       |
| W7355                       | 20" (508mm)     |                                    |                                     |                            | 4,000 Lbs. (17.79 kN)          | --            | W7355 |
| W7356                       | 24" (610mm)     |                                    |                                     |                            | VC6024                         | W7356         |       |
| W7357                       | 32" (813mm)     |                                    |                                     |                            | --                             | W7357         |       |
| W7357A                      | 36" (914mm)     |                                    |                                     |                            | VC6036                         | W7357A        |       |
| W7358                       | 40" (1016mm)    |                                    |                                     |                            | --                             | W7358         |       |
| W7359                       | 4' - 0" (1.2m)  |                                    |                                     |                            | VC6048                         | W7359         |       |
| W7360                       | 5' - 0" (1.5m)  |                                    |                                     |                            | VC6060                         | W7360         |       |
| W7361                       | 6' - 0" (1.8m)  |                                    |                                     |                            | VC6072                         | W7361         |       |
| W7362                       | 7' - 0" (2.1m)  |                                    |                                     |                            | VC6084                         | W7362         |       |
| W7363                       | 8' - 0" (2.4m)  |                                    |                                     |                            | VC6096                         | W7363         |       |
| W7364                       | 9' - 0" (2.7m)  |                                    |                                     |                            | VC6108                         | W7364         |       |
| W7365                       | 10' - 0" (3.0m) |                                    |                                     |                            | VC6120                         | W7365         |       |
| W7366                       | 12' - 0" (3.6m) |                                    |                                     |                            | VC6144                         | W7366         |       |
| W7367                       | 14' - 0" (4.2m) |                                    |                                     |                            | VC6168                         | W7367         |       |
| W7368                       | 16' - 0" (4.8m) |                                    |                                     |                            | VC6192                         | W7368         |       |
| W7369                       | 18' - 0" (5.4m) |                                    |                                     |                            | VC6216                         | W7369         |       |
| W7370                       | 20' - 0" (6.1m) |                                    |                                     |                            | VC6240                         | W7370         |       |

\* W7353 utilizes tab channel (punched & anchor caps)  
 † Embedded in 3,000 psi or better concrete, Safety Factor = 3  
 ♦ Versabar dimensions are different

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" (6mm)



Introduction

Channel

Channel Nuts & Hardware

General Fittings

Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

Concrete Inserts

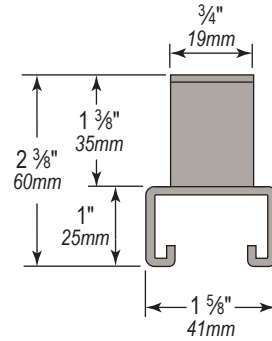
Roofing Supports

Fiberglass System

Technical Data

### Concrete Inserts - 1<sup>5</sup>/<sub>8</sub>" x 1" - 12 Gauge

When ordering specify finish. Available in plain, pre-galvanized, hot dip galvanized after fabrication, type 304 and 316 stainless steel. Stainless steel sizes with Anchor end caps, the end caps will be hot dip galvanized  
Refer to page 243 for continuous concrete insert part number selection chart to build complete part number based on desired options.



| SPECIFYING Brand & Part No. | Size            | Safe Uniform Load per L.F. †<br>Lbs. (kN) | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------------|---|--------------------------------|---------------|
|                             |                 |   | VERSABAR ♦                     | FLORIDA STRUT |
| <b>WESANCO</b>              |                 |   |                                |               |
| W7550                       | 4" (102mm)      | 500 (2.22 kN)                             | --                             | W7550         |
| W7551                       | 6" (152mm)      | 750 (3.34 kN)                             | VC10006                        | W7551         |
| W7552                       | 8" (203mm)      | 1000 (4.45 kN)                            | --                             | W7552         |
| W7553 *                     | 12" (305mm)     | 1500<br>(6.67 kN)                         | VC10012                        | W7553 *       |
| W7554                       | 16" (406mm)     |   | --                             | W7554         |
| W7555                       | 20" (508mm)     |   | --                             | W7555         |
| W7556                       | 24" (610mm)     |   | VC10024                        | W7556         |
| W7557                       | 32" (813mm)     |   | --                             | W7557         |
| W7557A                      | 36" (914mm)     |   | VC10036                        | W7557A        |
| W7558                       | 40" (1016mm)    |   | --                             | W7558         |
| W7559                       | 4' - 0" (1.2m)  |   | VC10048                        | W7559         |
| W7560                       | 5' - 0" (1.5m)  |   | VC10060                        | W7560         |
| W7561                       | 6' - 0" (1.8m)  |   | VC10072                        | W7561         |
| W7562                       | 7' - 0" (2.1m)  |   | VC10084                        | W7562         |
| W7563                       | 8' - 0" (2.4m)  |   | VC10096                        | W7563         |
| W7564                       | 9' - 0" (2.7m)  |   | VC10108                        | W7564         |
| W7565                       | 10' - 0" (3.0m) |   | VC10120                        | W7565         |
| W7566                       | 12' - 0" (3.6m) |   | VC10144                        | W7566         |
| W7567                       | 14' - 0" (4.2m) |   | VC10168                        | W7567         |
| W7568                       | 16' - 0" (4.8m) |   | VC10192                        | W7568         |
| W7569                       | 18' - 0" (5.4m) |   | VC10216                        | W7569         |
| W7570                       | 20' - 0" (6.1m) |   | VC10240                        | W7570         |

\* W7553 utilizes tab channel (punched & anchor caps)  
† Embedded in 3,000 psi or better concrete, Safety Factor = 3  
♦ Versabar dimensions are different

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



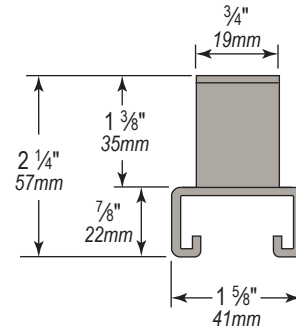
# Concrete Inserts



Standard Finish: Pre-Galvanized (PG)

## Concrete Inserts - 1<sup>5</sup>/<sub>8</sub>" x 7<sup>7</sup>/<sub>8</sub>" - 12 Gauge

When ordering specify finish. Available in plain, pre-galvanized, hot dip galvanized after fabrication, type 304 and 316 stainless steel. Stainless steel sizes with Anchor end caps, the end caps will be hot dip galvanized. Refer to page 243 for continuous concrete insert part number selection chart to build complete part number based on desired options.



| SPECIFYING Brand & Part No. | Size            | Max Allowable Point Load Lbs. (kN) | Min. Spacing of Point Load In. (mm) | Max Allowable Uniform Load | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-----------------|------------------------------------|-------------------------------------|----------------------------|--------------------------------|---------------|
|                             |                 |                                    |                                     |                            | VERSABAR                       | FLORIDA STRUT |
| W7954                       | 16" (406mm)     | 1,500 (6.67 kN)                    | 12" (305mm)                         | 3,000 Lbs. (13.34 kN)      | --                             | W7954         |
| W7955                       | 20" (508mm)     |                                    |                                     |                            | --                             | W7955         |
| W7956                       | 24" (610mm)     |                                    |                                     |                            | --                             | W7956         |
| W7957                       | 32" (813mm)     |                                    |                                     |                            | --                             | W7957         |
| W7957A                      | 36" (914mm)     |                                    |                                     |                            | --                             | W7957A        |
| W7958                       | 40" (1016mm)    |                                    |                                     |                            | --                             | W7958         |
| W7959                       | 4' - 0" (1.2m)  |                                    |                                     |                            | --                             | W7959         |
| W7960                       | 5' - 0" (1.5m)  |                                    |                                     | --                         | W7960                          |               |
| W7961                       | 6' - 0" (1.8m)  |                                    |                                     | --                         | W7961                          |               |
| W7962                       | 7' - 0" (2.1m)  |                                    |                                     | --                         | W7962                          |               |
| W7963                       | 8' - 0" (2.4m)  |                                    |                                     | --                         | W7963                          |               |
| W7964                       | 9' - 0" (2.7m)  |                                    |                                     | --                         | W7964                          |               |
| W7965                       | 10' - 0" (3.0m) |                                    |                                     | --                         | W7965                          |               |
| W7966                       | 12' - 0" (3.6m) |                                    |                                     | --                         | W7966                          |               |
| W7967                       | 14' - 0" (4.2m) |                                    |                                     | --                         | W7967                          |               |
| W7968                       | 16' - 0" (4.8m) |                                    |                                     | --                         | W7968                          |               |
| W7969                       | 18' - 0" (5.4m) |                                    |                                     | --                         | W7969                          |               |
| W7970                       | 20' - 0" (6.1m) |                                    |                                     | --                         | W7970                          |               |

† Embedded in 3,000 psi or better concrete, Safety Factor = 3

|   |
|---|
| Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm) |
|---|



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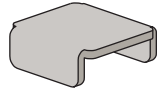
Concrete Inserts

Roofing Supports

Fiberglass System

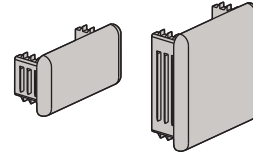
Technical Data

### End Caps



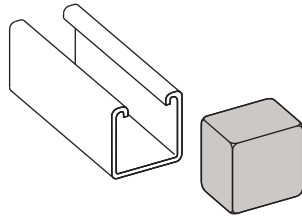
| SPECIFYING Brand & Part No. | Channel Usage      | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--------------------|--------------------------------|---------------|
|                             |                    | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W5909        | 3-1/4" - 12 gauge  | VF100111                       | --            |
| W5908                       | 2-1/2" - 12 gauge  | VF10013                        | --            |
| W5910                       | 2-7/16" - 12 gauge | --                             | --            |
| W5930                       | 1-5/8" - 12 gauge  | VF1001                         | EC10          |
| W5931                       | 1-5/8" - 14 Gauge  | VF10012                        | EC11          |
| W5933                       | 1-3/8" - 12 gauge  | VF10016                        | --            |
| W5938                       | 1" - 12 gauge      | VF100110                       | --            |
| W5935                       | 7/8" - 12 gauge    | --                             | EC12          |
| W5936                       | 13/16" - 14 Gauge  | VF10014                        | EC12          |

### Polyurethane End Caps



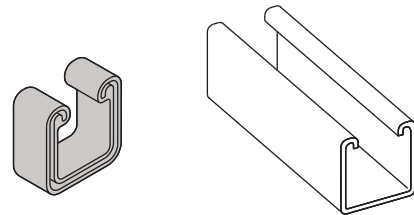
| SPECIFYING Brand & Part No.    | Color | Channel Usage | DISCONTINUED Brands & Part No. |               |
|--------------------------------|-------|---------------|--------------------------------|---------------|
|                                |       |               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> B5920PLASTICWHT | White | 1-5/8"        | --                             | --            |
| B5920PLASTICRED                | Red   |               | --                             | --            |
| B5925PLASTICWHT                | White | 13/16" & 7/8" | --                             | --            |
| B5925PLASTICRED                | Red   |               | --                             | --            |

### Cover Plastic End Caps



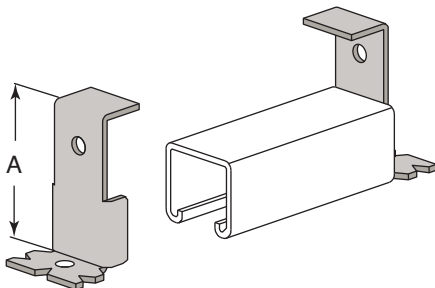
| SPECIFYING Brand & Part No. | Color | Channel Usage       | DISCONTINUED Brands & Part No. |               |
|-----------------------------|-------|---------------------|--------------------------------|---------------|
|                             |       |                     | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W5900PLASTIC | White | 3-1/4" or           | VF100111PL                     | --            |
| W5900PLASTICRED             | Red   | 1-5/8" Back to Back | --                             | --            |
| W5930PLASTIC                | White | 1-5/8" or           | VF10011PL                      | EC090000VC    |
| W5930PLASTICRED             | Red   | 13/16" Back-to-Back | --                             | EC09000RVC    |
| W5935PLASTIC                | White | 13/16"              | VF10014PL                      | EC080000VC    |
| W5935PLASTICRED             | Red   |                     | --                             | EC08000RVC    |

### Form Fit Plastic End Caps



| SPECIFYING Brand & Part No. | Channel Usage                          | DISCONTINUED Brands & Part No. |               |
|-----------------------------|--|--------------------------------|---------------|
|                             |  | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W5900-M      | 1-5/8" Back to Back<br>12 gauge        | --                             | --            |
| W5930-M                     | 1-5/8" - 12 gauge<br>1-5/8" - 14 Gauge | --                             | --            |
| W5935-M                     | 13/16" - 14 Gauge                      | --                             | --            |

### Anchor End Caps



| SPECIFYING Brand & Part No. | A Height       | Channel Usage | DISCONTINUED Brands & Part No. |               |
|-----------------------------|----------------|---------------|--------------------------------|---------------|
|                             |                |               | VERSABAR                       | FLORIDA STRUT |
| <b>WESANCO</b> W5952        | 3-1/8" (79mm)  | 1-5/8"        | VF2002                         | CI20          |
| W5953                       | 2-3/4" (70mm)  | 1-3/8"        | VF20026 *                      | CI21          |
| W5958                       | 2-3/8" (60mm)  | 1"            | VF200210 *                     | --            |
| W5959                       | 2-1/4" (57mm)  | 7/8"          | --                             | --            |
| W5951                       | 2-5/16" (59mm) | 13/16"        | VF20024                        | --            |

\* Height is slightly different, check with representative

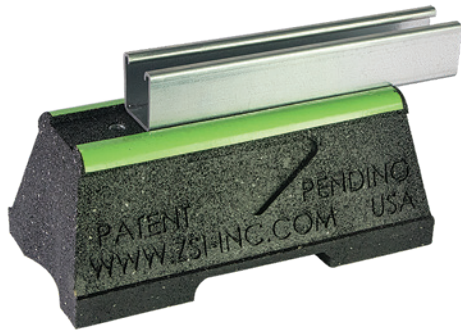
Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" (6mm)



# Cush-A-Block® Rooftop Supports

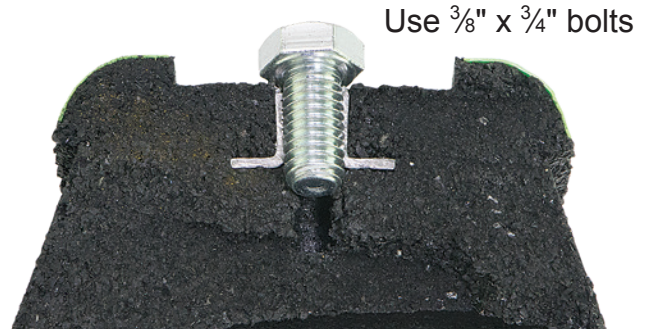
## 75% Faster Strut Install and Change-Out

### Built-in Channel Guide



**Straight Strut Installation**

### Embedded Fasteners



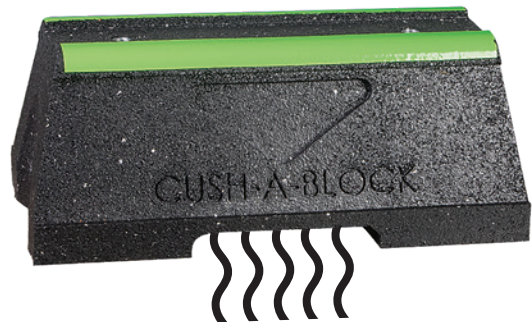
**No Rust on the Roof**

### Easy-carry Hand Grip



**Simple to Lift and Carry**

### Water Flow-through



**Helps Prevent Mold and Ice Dams**

- 100% Recycled Rubber Qualifies for LEED Credits
- Meets the Buy America Act and American Reinvestment Recovery Act
- Resistant to Freeze and Thaw

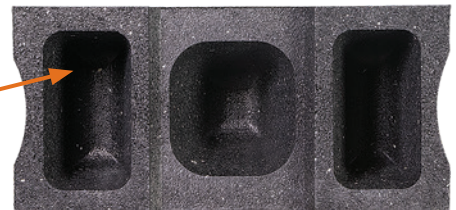
- Dampens Vibrations
- Compatible with Most Rooftop Materials
- Eco-Green Reflective Safety Strip Won't Peel or Flake

Cush-A-Block is manufactured under U.S. patent D824749 and one pending, and Canadian patents #175942 and one pending

## Solar Racking | Pipe & Conduit | HVAC | Rooftop Walkways

The channel for Cush-A-Block support assemblies includes a variety of options. The strut can be made in special lengths, finishes, and alloys including Aluminum, Stainless Steel both 304 & 316, PVC coated, Powder coated, Zinc Trivalent Chromium, Pre-Galvanized and Hot Dipped Galvanized.

Embedded nut eliminates any thru holes and prevents leaks or any rust from forming on the underside of the fastener.

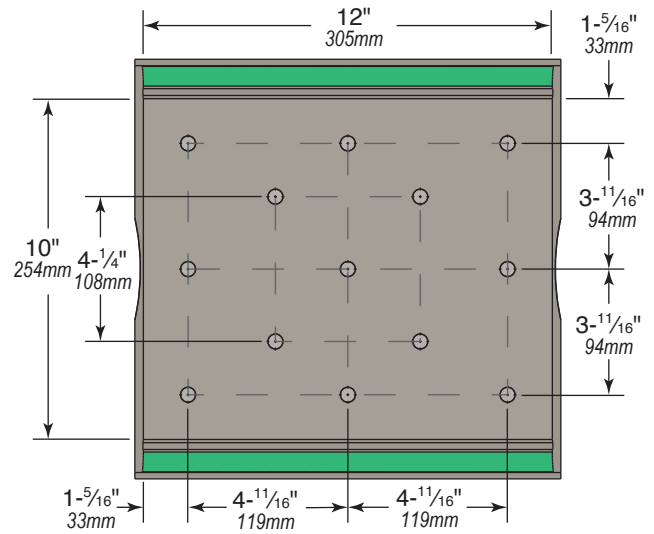
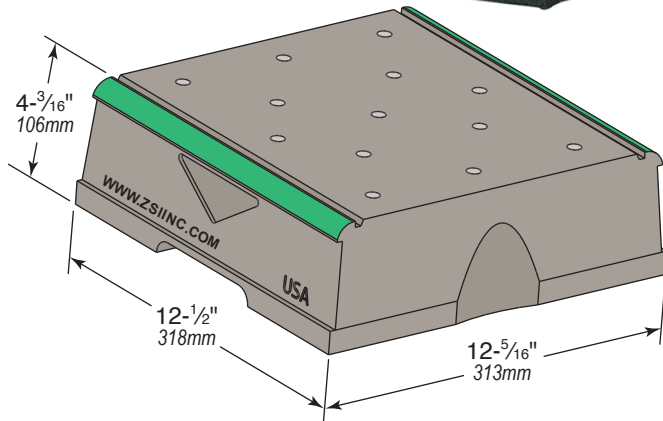
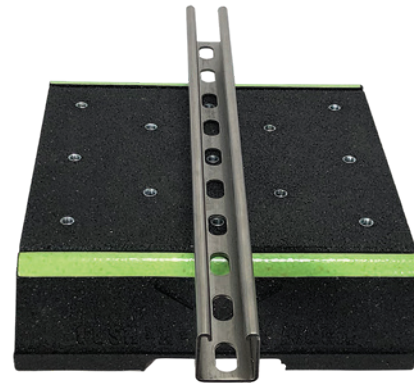


See page 23 for Material or Finish ordering codes for part numbers.



## CBB "Biggie" Series

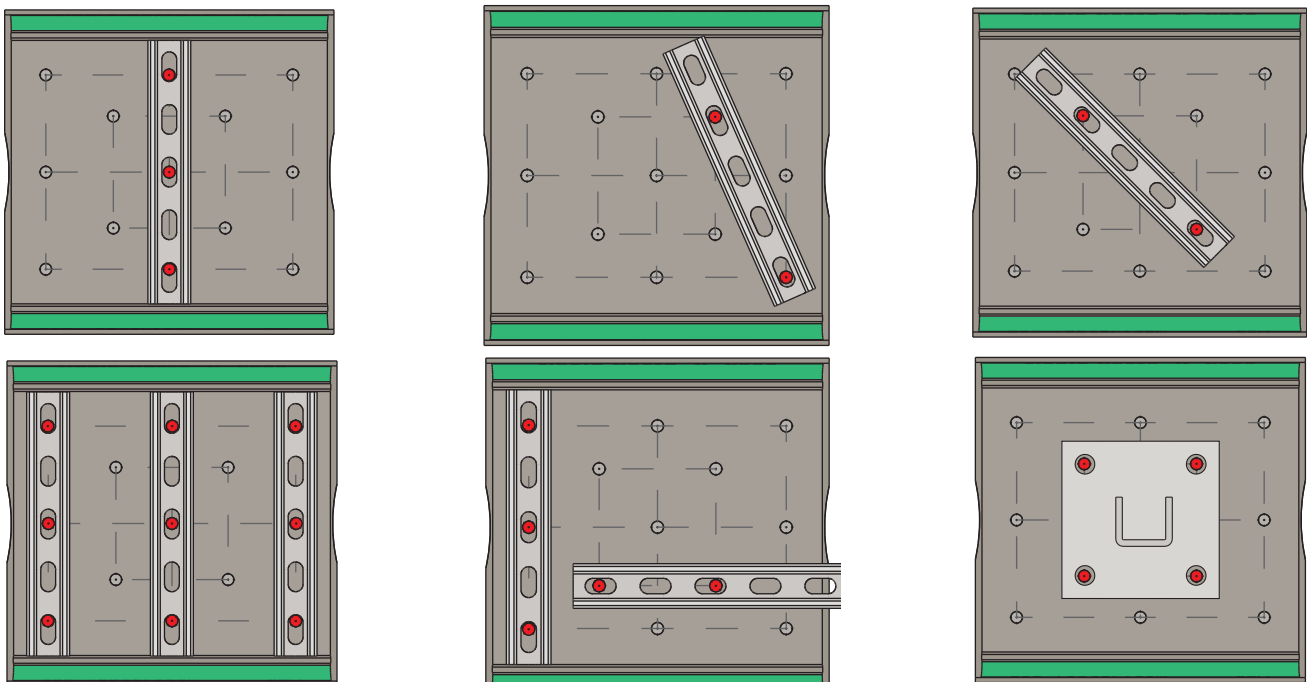
Plain Base



| CBB "Biggie" Block Base |                                 |
|-------------------------|---------------------------------|
| Part No.                | Uniform Load Capacity Lbs (kN)* |
| CBB                     | 7,500 * (33.36 kN)              |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.

### Embedded Fastener Layout Provides an Amazing Variety of Channel or Fitting Options



# Cush-A-Block® Rooftop Supports

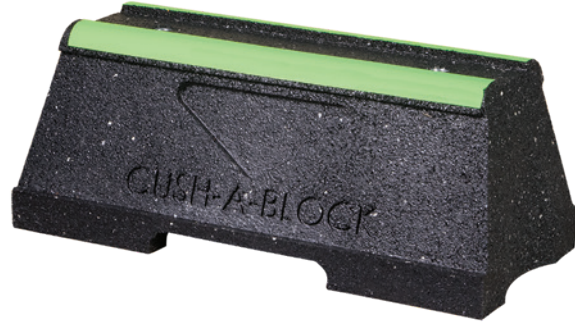
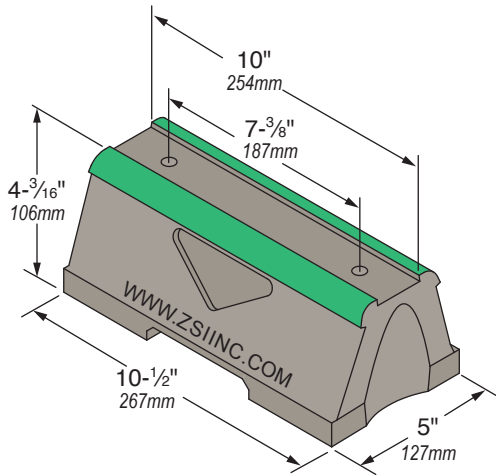


Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)



## CBN Series

Plain Base



Note: The embedded fasteners are conveniently spaced to allow attachment of slotted channel.

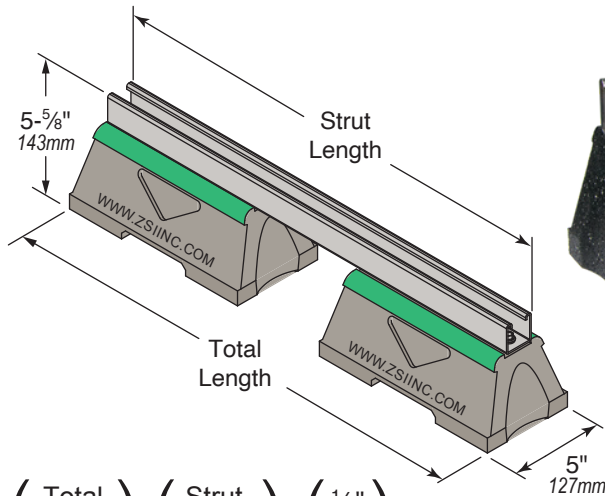
The CBN-Base Rooftop Support is UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Can be used as a curb (sleeper) replacement. Screw fasteners can be used to attach one or two hole pipe straps or a piece of strut (not included).

| CBN-Base Series |                                 |
|-----------------|---------------------------------|
| Part No.        | Uniform Load Capacity Lbs (kN)* |
| CBN             | 2,500 * (11.12 kN)              |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.

## CBN-BR Bridge Series

Support With Channel



$$\left( \text{Total Length} \right) = \left( \text{Strut Length} \right) + \left( \frac{1}{2} \text{ inch} \right) \left( 13 \text{ mm} \right)$$

Like all of the Cush-A-Block supports, the CBN-BR Bridge Rooftop Supports are perfect for supporting natural gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

The CBN-BR Series provides a longer mounting surface with strut lengths up to 60" (1.5m). Custom lengths are available upon request.

Standard strut mount pipe clamps are used to secure the pipes.

| CBN-BR Bridge Series Supports with 1-5/8" (41mm) Pre-Galv. or Hot Dip Galv. Steel Channel |              |                 |                        |
|---|--------------|-----------------|------------------------|
| Part No.  | Strut Length | Total Length    | Uniform Load Lbs (kN)* |
| CBN28BR   | 28" (711mm)  | 28-1/2" (724mm) | 1,491* (6.63 kN)       |
| CBN36BR   | 36" (914mm)  | 36-1/2" (927mm) | 1,160* (5.15 kN)       |
| CBN42BR   | 42" (1m)     | 42-1/2" (1.08m) | 994* (4.42 kN)         |
| CBN50BR   | 50" (1.2m)   | 50-1/2" (1.28m) | 835* (3.71 kN)         |
| CBN60BR   | 60" (1.5m)   | 60-1/2" (1.54m) | 696* (3.09 kN)         |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.



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Channel Nuts & Hardware

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Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

Concrete Inserts

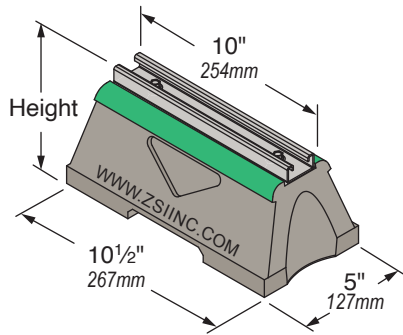
Rooftop Supports

Fiberglass System

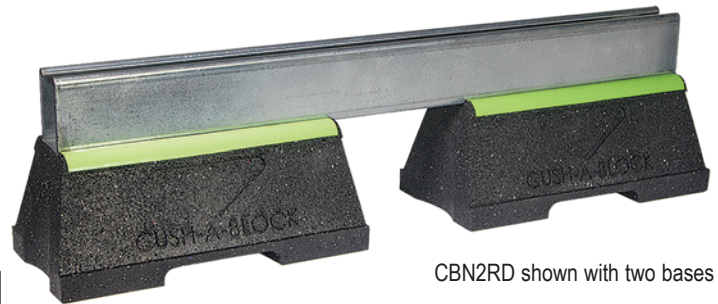
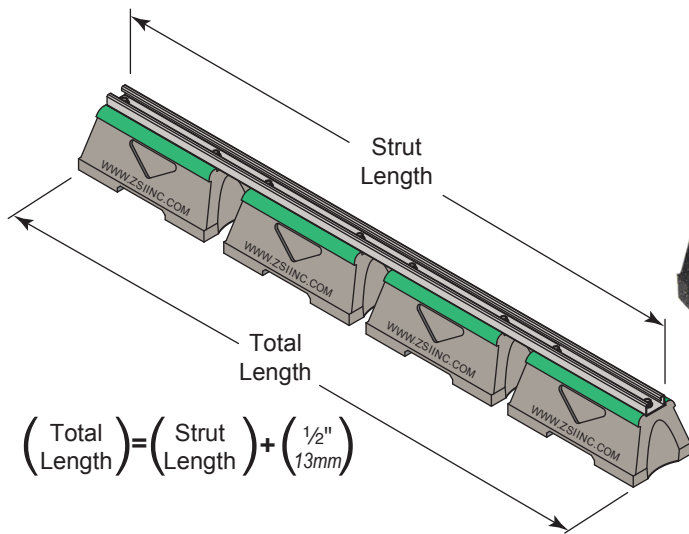
Technical Data

## CBN Series

Support With Metal Channel



Shown with 1<sup>3</sup>/<sub>16</sub>" Strut



CBN2RD shown with two bases

The CBN Series provides a longer mounting surface with strut lengths up to 46.82" (1.2m). Custom lengths are available upon request

| Part No.   | No. of Bases | Height                                     | Strut Length | Total Length                              | Uniform Load Lbs (kN)* |
|--|--------------|--|--------------|---|------------------------|
| <b>CBN-Support With 1<sup>3</sup>/<sub>16</sub>" (21mm) Pre-Galv. or Hot Dip Galv. Steel Channel</b>   |              |  |              |   |                        |
| CBN1S  | 1            | 4- <sup>13</sup> / <sub>16</sub> " (122mm) | 10" (254mm)  | 10- <sup>1</sup> / <sub>2</sub> " (267mm) | 2,500 * (11.12 kN)     |
| CBN2S  | 2            |  | 22" (559mm)  | 22- <sup>1</sup> / <sub>2</sub> " (572mm) | 5,000 * (22.24 kN)     |
| CBN3S  | 3            |  | 34" (864mm)  | 34- <sup>1</sup> / <sub>2</sub> " (876mm) | 7,500 * (33.36 kN)     |
| CBN4S  | 4            |  | 46" (1.17m)  | 46- <sup>1</sup> / <sub>2</sub> " (1.18m) | 10,000 * (44.48 kN)    |
| <b>CBN-Support With 1-<sup>5</sup>/<sub>8</sub>" (41mm) Pre-Galv. or Hot Dip Galv. Steel Channel</b>   |              |  |              |   |                        |
| CBN1D  | 1            | 5- <sup>5</sup> / <sub>8</sub> " (143mm)   | 10" (254mm)  | 10- <sup>1</sup> / <sub>2</sub> " (267mm) | 2,500 * (11.12 kN)     |
| CBN2D  | 2            |  | 22" (559mm)  | 22- <sup>1</sup> / <sub>2</sub> " (572mm) | 5,000 * (22.24 kN)     |
| CBN3D  | 3            |  | 34" (864mm)  | 34- <sup>1</sup> / <sub>2</sub> " (876mm) | 7,500 * (33.36 kN)     |
| CBN4D  | 4            |  | 46" (1.17m)  | 46- <sup>1</sup> / <sub>2</sub> " (1.18m) | 10,000 * (44.48 kN)    |
| <b>CBN Support With 2-<sup>7</sup>/<sub>16</sub>" (62mm) Pre-Galv. or Hot Dip Galv. Steel Channel</b>  |              |  |              |   |                        |
| CBN1RD   | 1            | 6- <sup>7</sup> / <sub>16</sub> " (164mm)  | 10" (254mm)  | 10- <sup>1</sup> / <sub>2</sub> " (267mm) | 2,500 * (11.12 kN)     |
| CBN2RD   | 2            |  | 22" (559mm)  | 22- <sup>1</sup> / <sub>2</sub> " (572mm) | 5,000 * (22.24 kN)     |
| CBN3RD   | 3            |  | 34" (864mm)  | 34- <sup>1</sup> / <sub>2</sub> " (876mm) | 7,500 * (33.36 kN)     |
| CBN4RD   | 4            |  | 46" (1.17m)  | 46- <sup>1</sup> / <sub>2</sub> " (1.18m) | 10,000 * (44.48 kN)    |
| * This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity. |              |  |              |   |                        |



# Cush-A-Block® Rooftop Supports



Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)

## CBN-EX Series

Support With Raised Channel

CBN-BR Extension Rooftop Supports are perfect for supporting natural gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

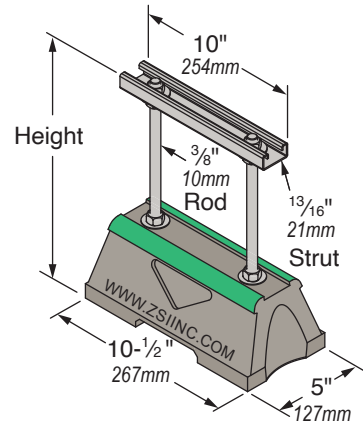
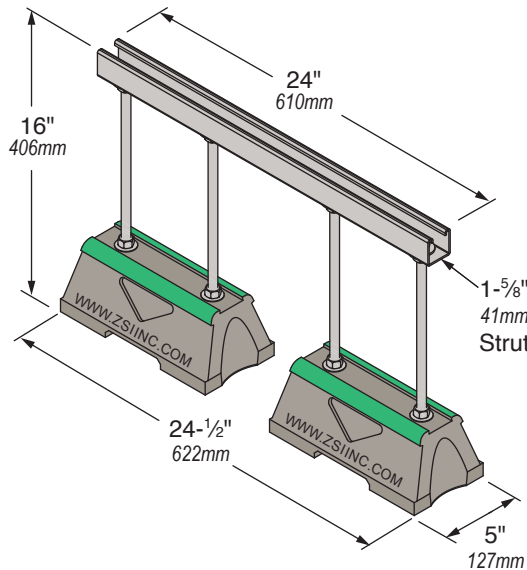
Standard strut mount pipe clamps are used to secure the pipes. Custom lengths are available upon request.



CBN8EX,  
CBN12EX



CBN16EX



CBN-EX Extension Series Support with 3/8" Threaded Rod Extension and Pre-Galv. or Hot Dip Galv. Steel Channel

| Part No. | No. of Bases | Height      | Strut Size    | Uniform Load Lbs (kN) * |
|----------|--------------|-------------|---------------|-------------------------|
| CBN8EX   | 1            | 8" (203mm)  | 13/16" (21mm) | 1,000 * (4.44 kN)       |
| CBN12EX  | 1            | 12" (305mm) | (21mm)        | 1,000 * (4.44 kN)       |
| CBN16EX  | 2            | 16" (406mm) | 1-5/8" (41mm) | 2,000 * (8.89 kN)       |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.

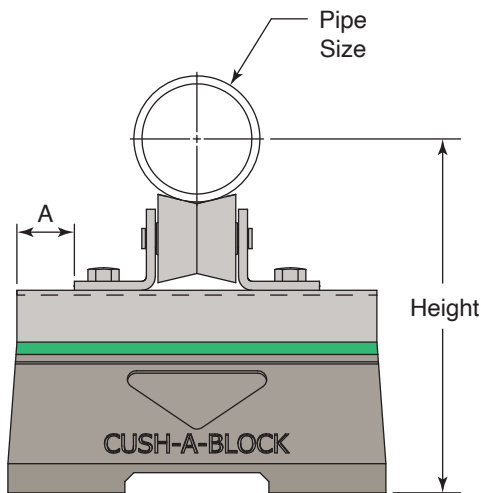
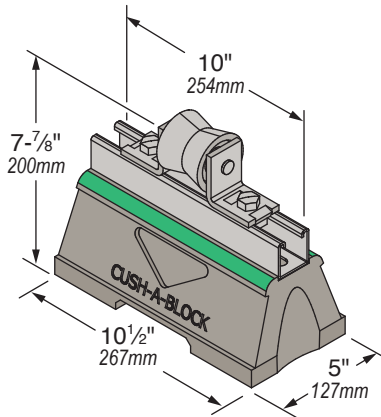




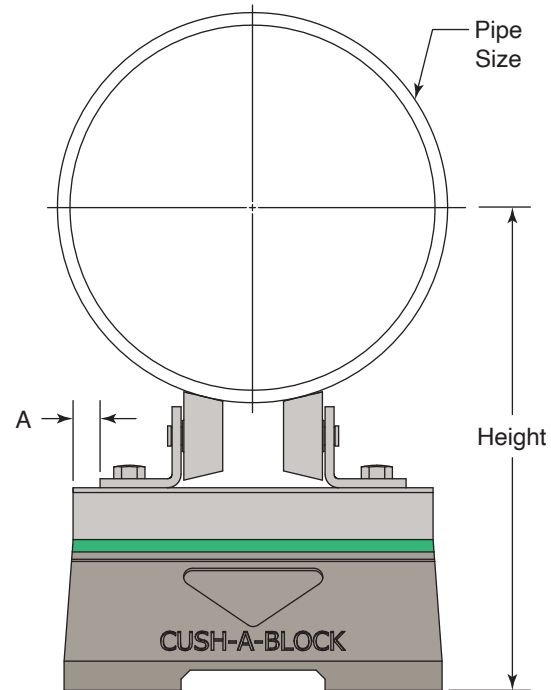
## CBN-PRB Series

Support With Pipe Roller

The CBN-PRB Rooftop Supports are designed for superior support of natural gas and refrigeration pipes. The roller allows for longitudinal movements of the pipe. This support is suitable for most types of roofing material or other flat surfaces.



1" - 6" (25mm - 152mm)



8" - 12" (203mm - 305mm)

| CBN-PRB Roller-Series with 1-5/8" (41mm)<br>Pre-Galv or Hot Dip Galv. Steel Channel with Rollers |                  |                 |               |                        |
|--|------------------|-----------------|---------------|------------------------|
| Part No.   | Pipe Size (O.D.) | Height          | A             | Uniform Load Lbs (kN)* |
| CBNPRB   | 1"               | 8.707" (221mm)  | 1.594" (40mm) | 2,500 *<br>(11.12 kN)  |
|  | 1-1/2"           | 9.008" (229mm)  |               |                        |
|  | 2"               | 9.252" (235mm)  |               |                        |
|  | 2-1/2"           | 9.509" (242mm)  |               |                        |
|  | 3"               | 9.831" (250mm)  |               |                        |
|  | 4"               | 10.345" (263mm) |               |                        |
|  | 6"               | 11.437" (291mm) |               |                        |
|  | 8"               | 12.323" (313mm) | 1.000" (25mm) |                        |
|  | 12"              | 14.384" (365mm) | 0.750" (19mm) |                        |
|  | 18"              | 16.904" (429mm) | 0" (0mm)      |                        |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.





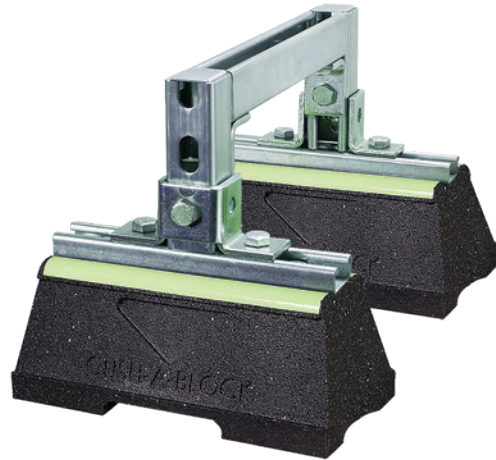
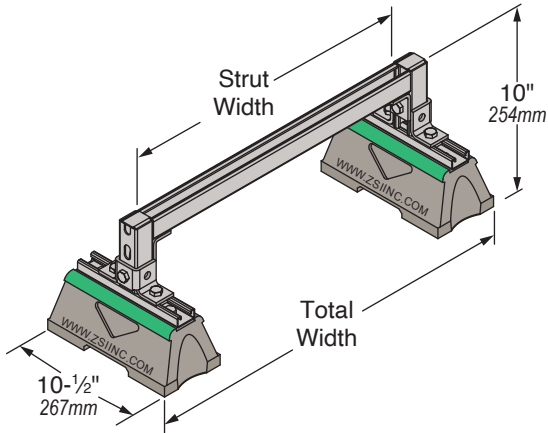
# Cush-A-Block® Rooftop Supports



Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)

## CBN-RB Series

Support With Raised Bridge Medium Support



The CBN-RB Medium Rooftop Supports can support natural gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications. They are designed for rooftop applications requiring a heavier load bearing capacity, and are suitable for most types of roofing material or other flat surfaces. Custom lengths are available upon request.

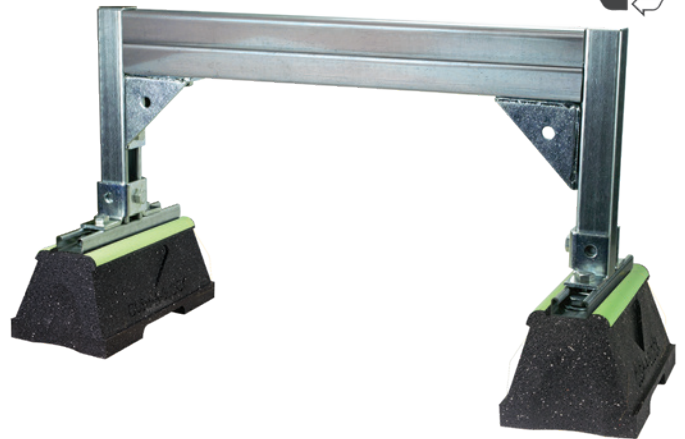
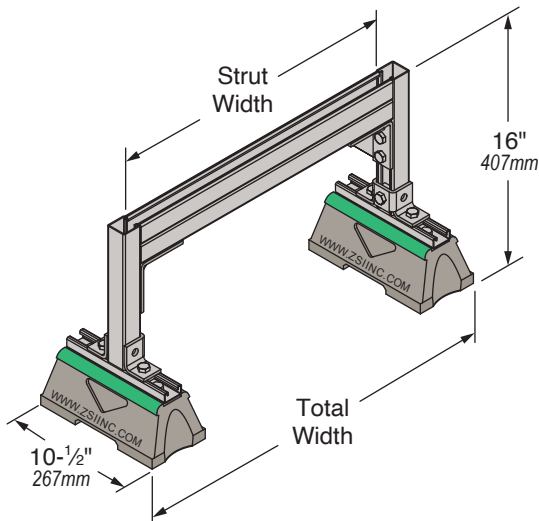
Standard strut mount pipe clamps are used to secure the pipes.

| Raised Bridge Medium Support with 2 CBN Bases & 1-5/8" (41mm) Pre-Galv or Hot Dip Galv. Steel Channel |                |             |                        |
|---|----------------|-------------|------------------------|
| Part No.  | Total Width    | Strut Width | Uniform Load Lbs (kN)* |
| CBN1RB  | 18.65" (474mm) | 12" (305mm) | 3,000 * (13.34 kN)     |
| CBN2RB  | 30.65" (779mm) | 24" (610mm) | 1,500 * (6.67 kN)      |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.

## CBN-RB Series

Support With Raised Channel Heavy Support



The CBN-RB Heavy Rooftop Supports is designed for rooftop applications requiring a heavier load bearing capacity. It is suitable for most types of roofing material or other flat surfaces. Custom lengths are available upon request.

Standard strut mount pipe clamps are used to secure the pipes.

| Raised Bridge Heavy Support with 2 CBN Bases & 3-1/4" (83mm) Back-to-Back Pre-Galv or Hot Dip Galv. Steel Channel |                |             |                        |
|---|----------------|-------------|------------------------|
| Part No.  | Total Width    | Strut Width | Uniform Load Lbs (kN)* |
| CBN3RB  | 30.65" (779mm) | 24" (610mm) | 2,500†* (11.56 kN)     |
| CBN4RB  | 42.65" (1.1m)  | 36" (914mm) | 2,500†* (11.45 kN)     |

\* This load is only for the capacity of the components in this assembly.  
 † Beam load is limited by weld shear  
 Please consult roofing manufacturer or engineer for roof load capacity.



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Fiberglass System

Technical Data

## CBN-DS Series

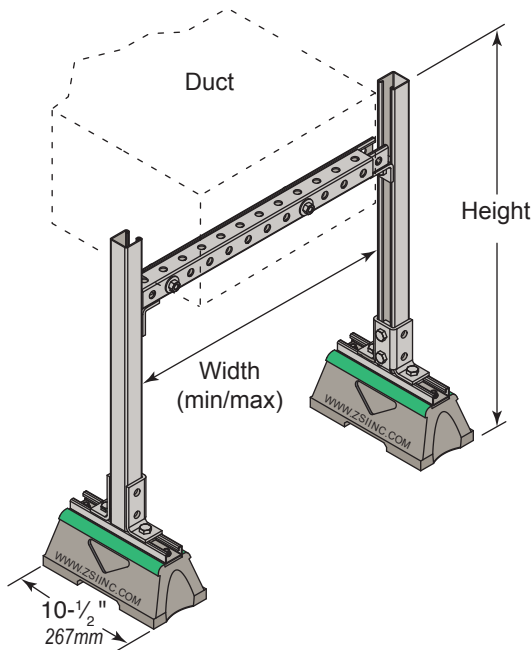
### Adjustable Width Duct Support



The CBN-DS Series is designed specifically for supporting duct work. The telescopic cross beam provides easy width and height adjustments.

A wide range of support widths are provided from 19-1/4" to 103-5/8" (489mm to 2.6m)

Standard strut mount pipe clamps are used to secure the pipes.



**CBN-DS Duct Support Series With Adjustable Width and Height with 1-5/8" (41mm) Pre-Galv or Hot Dip Galv. Steel Channel**

| Part No.      | Width           |                 | Height          | Uniform Load at Min. Width Lbs(kN) * |
|---------------|-----------------|-----------------|-----------------|--------------------------------------|
|               | Min.            | Max.            |                 |                                      |
| <b>CBN1DS</b> | 19-1/4" (489mm) | 26-3/4" (679mm) | 28.813" (732mm) | 1,909 * (8.49 kN)                    |
| <b>CBN2DS</b> | 24-7/8" (632mm) | 39-7/8" (1m)    |                 | 1,477 * (6.57 kN)                    |
| <b>CBN3DS</b> | 38" (987mm)     | 62-3/8" (1.6m)  |                 | 967 * (4.30 kN)                      |
| <b>CBN4DS</b> | 62-3/8" (1.6m)  | 103-5/8" (2.6m) |                 | 589 * (2.62 kN)                      |
| <b>CBN5DS</b> | 19-1/4" (489mm) | 26-3/4" (679mm) | 36" (914mm)     | 1,909 * (8.49 kN)                    |
| <b>CBN6DS</b> | 24-7/8" (632mm) | 39-7/8" (1m)    |                 | 1,477 * (6.57 kN)                    |
| <b>CBN7DS</b> | 38" (987mm)     | 62-3/8" (1.6m)  |                 | 967 * (4.30 kN)                      |
| <b>CBN8DS</b> | 62-3/8" (1.6m)  | 103-5/8" (2.6m) |                 | 589 * (2.62 kN)                      |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.



# Cush-A-Block® Rooftop Supports



Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)

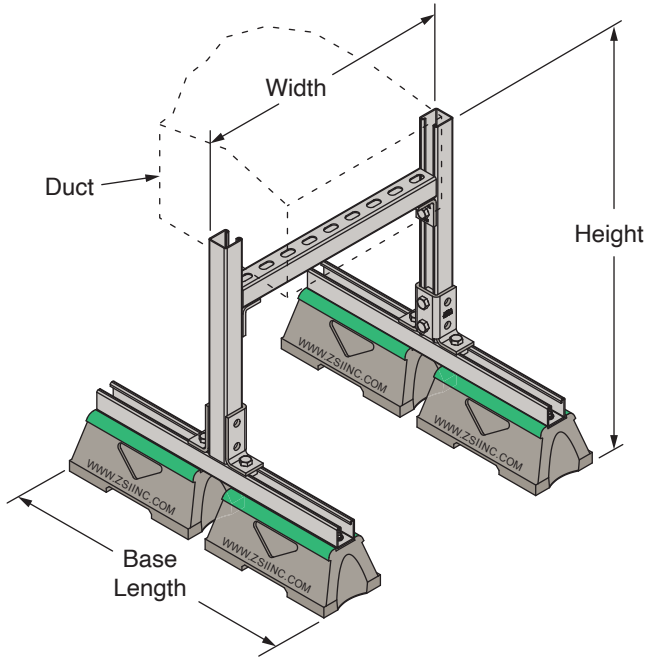


## CBN-DSFW Series

Fixed Width Duct Support

The CBN-DSFW Series is designed specifically for supporting duct work. The cross beam provides easy size adjustments. Custom lengths are available upon request.

Standard strut mount pipe clamps are used to secure the pipes.



**CBN-DSFW Duct Support Series With Fixed Width & Adjustable Height with 1-5/8" (41mm) Pre-Galv or Hot Dip Galv. Steel Channel**

| Part No.   | Height      | Width       | Base Length | No. of Bases | Uniform Load Capacity Lbs(kN) * |
|------------|-------------|-------------|-------------|--------------|---------------------------------|
| CBN1-DSFW  | 23" (584mm) | 18" (457mm) | 24" (610mm) | 4            | 2042 * (9.08 kN)                |
| CBN2-DSFW  |             | 24" (610mm) |             |              | 1531 * (6.81 kN)                |
| CBN3-DSFW  |             | 36" (914mm) |             |              | 1021 * (4.54 kN)                |
| CBN4-DSFW  |             | 48" (1.2m)  |             |              | 766 * (3.40 kN)                 |
| CBN5-DSFW  | 29" (737mm) | 18" (457mm) | 24" (610mm) | 4            | 2042 * (9.08 kN)                |
| CBN6-DSFW  |             | 24" (610mm) |             |              | 1531 * (6.81 kN)                |
| CBN7-DSFW  |             | 36" (914mm) |             |              | 1021 * (4.54 kN)                |
| CBN8-DSFW  |             | 48" (1.2m)  |             |              | 766 * (3.40 kN)                 |
| CBN9-DSFW  | 41" (1m)    | 18" (457mm) | 24" (610mm) | 4            | 2042 * (9.08 kN)                |
| CBN10-DSFW |             | 24" (610mm) |             |              | 1531 * (6.81 kN)                |
| CBN11-DSFW |             | 36" (914mm) |             |              | 1021 * (4.54 kN)                |
| CBN12-DSFW |             | 48" (1.2m)  |             |              | 766 * (3.40 kN)                 |
| CBN13-DSFW | 53" (1.3m)  | 18" (457mm) | 36" (914mm) | 6            | 2042 * (9.08 kN)                |
| CBN14-DSFW |             | 24" (610mm) |             |              | 1531 * (6.81 kN)                |
| CBN15-DSFW |             | 36" (914mm) |             |              | 1021 * (4.54 kN)                |
| CBN16-DSFW |             | 48" (1.2m)  |             |              | 766 * (3.40 kN)                 |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.



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Channel Nuts & Hardware

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Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

Concrete Inserts

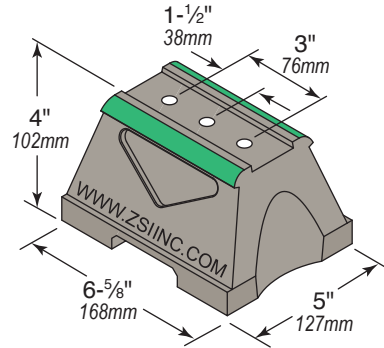
Rooftop Supports

Fiberglass System

Technical Data

## CBM

Cush-A-Block Mini

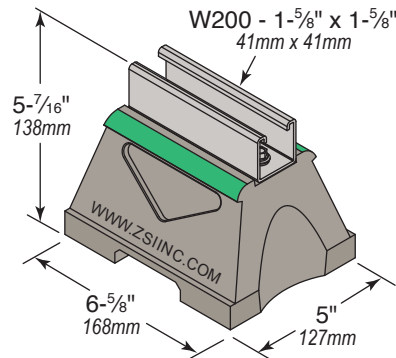
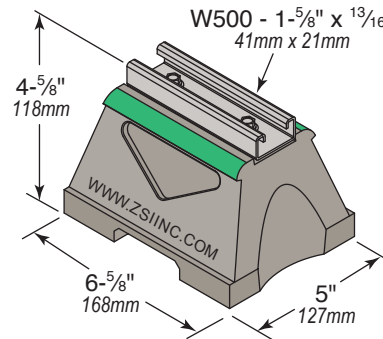


| CBM-Base Series |                               |
|-----------------|-------------------------------|
| Part No.        | Uniform Load Capacity (Lbs) * |
| <b>CBM</b>      | 400 (1.78 kN)                 |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.

## CBM Series

Support with Metal Channel



| Part No.  | Uniform Load Capacity (Lbs) * |
|---|-------------------------------|
| <b>CBM-Support with <sup>13</sup>/<sub>16</sub>" (21mm) Pre-Galv or Hot Dip Galv. Steel Channel</b> |                               |
| <b>CBM1S</b>  | 400 (1.78 kN)                 |
| <b>CBM-Support with 1-5/8" (41mm) Pre-Galv or Hot Dip Galv. Steel Channel</b>                       |                               |
| <b>CBM1D</b>  | 400 (1.78 kN)                 |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.





# Cush-A-Block® Rooftop Supports

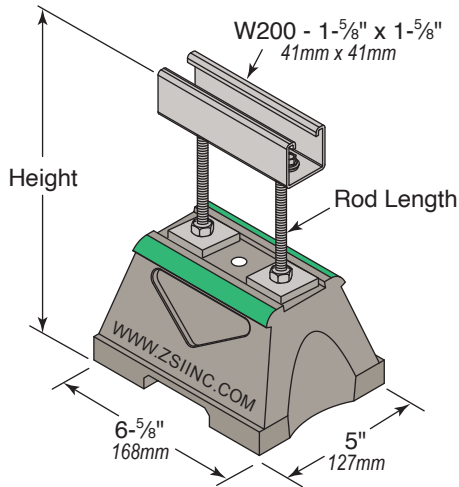


Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)



## CBM REX Series

Support with Raised 1-5/8" Metal Channel

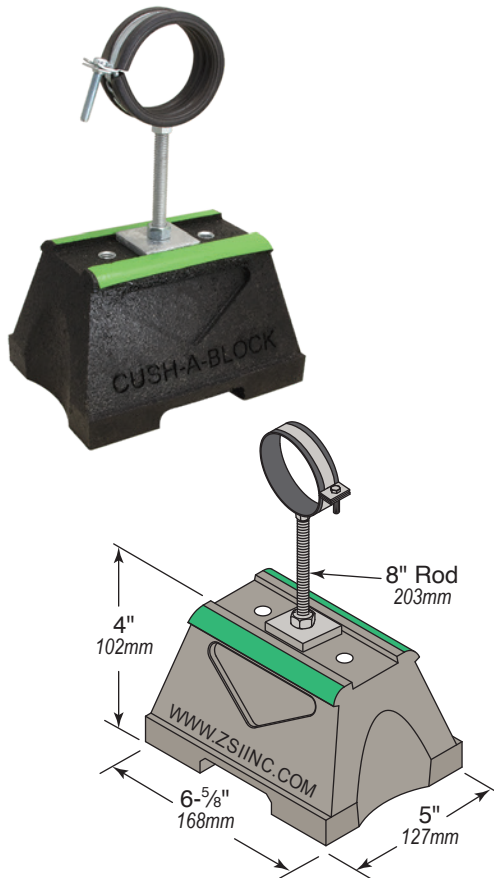
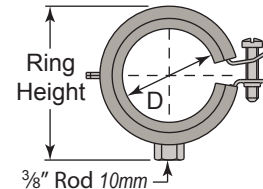


| CBM-Support Extension with 3/8" Threaded Rod Extension & 1-5/8" (41mm) Pre-Galv or Hot Dip Galv. Steel Channel |             |            |                         |
|--|-------------|------------|-------------------------|
| Part No.   | Height      | Rod Length | Uniform Load Lbs (kN) * |
| CBM10REX   | 10" (254mm) | 6" (152mm) | 175 (0.78 kN)           |
| CBM12REX   | 12" (305mm) | 8" (203mm) | 175 (0.78 kN)           |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.

## CBMPH Series

Support with Raised SPH Cush-A-Ring Clamp for Copper Tube or Steel Tube or Pipe



| CBMPH Series Cush-A-Block Mini with Raised SPH Cush-A-Ring Clamp for Copper or Steel Tube or Pipe |                                |        |        |               |                         |
|---|--------------------------------|--------|--------|---------------|-------------------------|
| Part No.  | D                              | IP     | CT     | Ring Height   | Uniform Load Lbs (kN) * |
| CBMPH1  | 0.433" - 0.551" (11 - 14mm)    | 1/4"   | 3/8"   | 1.4" (36mm)   | 125 (0.56 kN)           |
| CBMPH2  | 0.591" - 0.709" (15 - 18mm)    | 3/8"   | 1/2"   | 1.4" (36mm)   |                         |
| CBMPH3  | 0.787" - 0.906" (20 - 23mm)    | 1/2"   | 3/4"   | 1.6" (41mm)   |                         |
| CBMPH4  | 0.984" - 1.102" (25 - 28mm)    | 3/4"   | 1"     | 1.8" (46mm)   |                         |
| CBMPH5  | 1.22" - 1.378" (31 - 35mm)     | 1"     | 1 1/4" | 2.0" (51mm)   |                         |
| CBMPH6  | 1.575" - 1.693" (40 - 43mm)    | 1 1/4" | 1 1/2" | 2.4" (61mm)   |                         |
| CBMPH7  | 1.89" - 2.087" (48 - 53mm)     | 1 1/2" | -      | 2.6" (66mm)   |                         |
| CBMPH8  | 2.126" - 2.205" (54 - 56mm)    | -      | 2"     | 2.8" (71mm)   |                         |
| CBMPH9  | 2.244" - 2.48" (57 - 63mm)     | 2"     | -      | 3.1" (79mm)   |                         |
| CBMPH10   | 2.52" - 2.756" (64 - 70mm)     | -      | 2 1/2" | 3.9" (99mm)   |                         |
| Below parts have 2 bolt configuration SPH Clamps  |                                |        |        |               |                         |
| CBMPH11   | 2.874" - 3.15" (73 - 80mm)     | 2 1/2" | 3"     | 4.3" (109 mm) | 125 (0.56 kN)           |
| CBMPH12   | 3.268" - 3.583" (83 - 91mm)    | 3"     | -      | 4.8" (122 mm) |                         |
| CBMPH13   | 3.937" - 4.134" (100 - 105 mm) | -      | 4"     | 5.3" (135 mm) |                         |
| CBMPH14   | 4.252" - 4.488" (108 - 114mm)  | 4"     | -      | 5.7" (145 mm) |                         |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.

See Page 148 for more information on the SPH Cush-A-Ring Clamps



Introduction

Channel

Channel Nuts & Hardware

General Fittings

Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

Concrete Inserts

Rooftop Supports

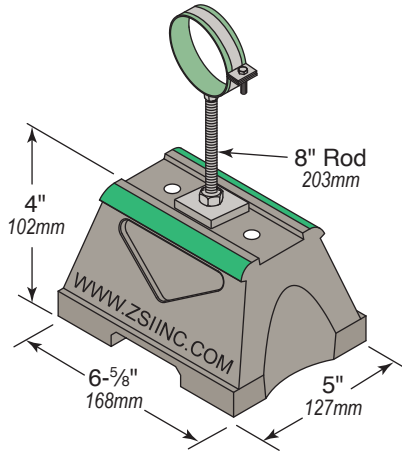
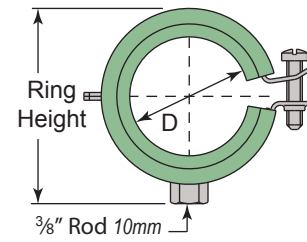
Fiberglass System

Technical Data



## CBMPP Series

Support with Raised SPP Cush-A-Ring Clamp for PEX, CPVC, or PVC Pipe



| CBMPP Series Cush-A-Block Mini with Raised SPP Cush-A-Ring Clamp for PEX, CPVC or PVC Pipe |                               |            |        |              |                       |
|--|-------------------------------|------------|--------|--------------|-----------------------|
| Part No.   | D (mm)                        | PVC / CPVC | PEX    | Ring Height  | Load Capacity (Lbs) * |
| CBMPP2   | 0.591" - 0.709" (15 - 18mm)   | 3/8"       | 1/2"   | 1.4" (36mm)  | 125<br>(0.56 kN)      |
| CBMPP3   | 0.787" - 0.906" (20 - 23mm)   | 1/2"       | 3/4"   | 1.7" (43mm)  |                       |
| CBMPP4   | 0.984" - 1.102" (25 - 28mm)   | 3/4"       | 1"     | 1.9" (48mm)  |                       |
| CBMPP5   | 1.22" - 1.378" (31 - 35mm)    | 1"         | 1 1/4" | 2.2" (56mm)  |                       |
| CBMPP6   | 1.575" - 1.693" (40 - 43mm)   | 1 1/4"     | 1 1/2" | 2.6" (66mm)  |                       |
| CBMPP7   | 1.89" - 2.087" (48 - 53mm)    | 1 1/2"     | -      | 3.0" (76mm)  |                       |
| CBMPP8   | 2.126" - 2.205" (54 - 56mm)   | -          | 2"     | 3.0" (76mm)  |                       |
| CBMPP9   | 2.362" - 2.559" (60 - 65mm)   | 2"         | -      | 3.4" (86mm)  |                       |
| CBMPP10  | 2.756" - 2.992" (70 - 76mm)   | 2 1/2"     | -      | 4.1" (104mm) |                       |
| Below parts have 2 bolt configuration SPP Clamps   |                               |            |        |              |                       |
| CBMPP11  | 3.386" - 3.583" (86 - 91mm)   | 3"         | -      | 4.6" (117mm) | 125<br>(0.56 kN)      |
| CBMPP12  | 4.331" - 4.488" (110 - 114mm) | 4"         | -      | 5.8" (147mm) |                       |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.

See Page 149 for more information on the SPP Cush-A-Ring Clamps

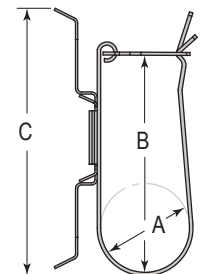
## CBMTRH Series

Support with Raised TRH Hanger System for Cable runs or Insulated Flow and Return Lines

Supports a pair of insulated flow and return refrigerant lines on 3/8" threaded rod. The spring steel hanger grips the rod tightly, and the black zinc coating offers corrosion resistance while matching the insulation color.

See page 219 for THR Hanger information

- Quick to Install & Adjust
- Rolled steel edges for safe cable runs
- Spring steel hanger grips rod tightly



| CBMTRH Series Cush-A-Block Mini with Raised TRH Hanger Clamp for Cable Runs or Insulated Pipe & Tubing |                          |              |               |               |                         |
|--|--------------------------|--------------|---------------|---------------|-------------------------|
| Part No.   | Flow & Return Pipe Pairs | A            | B             | C             | Uniform Load Lbs (kN) * |
| CBMTRH2  | 3/8" Liquid & 5/8" Gas   | 1.28" (33mm) | 3.12" (79mm)  | 3.82" (97mm)  | 175<br>(0.78 kN)        |
| CBMTRH3  | 1/2" Liquid & 7/8" Gas   | 1.40" (36mm) | 3.28" (83mm)  | 3.70" (94mm)  |                         |
| CBMTRH4  | 5/8" Liquid & 1-1/8" Gas | 2.40" (61mm) | 4.17" (106mm) | 5.00" (127mm) |                         |
| CBMTRH5  |                          | 3.38" (86mm) | 6.26" (159mm) | 7.03" (179mm) |                         |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.



## Vibration Isolation Products from ZSI

When installing pipe, tube, hose, or equipment the effects of vibration, shock, surge, galvanic corrosion and unwanted noise are a major concern. Improperly cushioned equipment, pipe, tube, or hose invites failure and potential problems. New developments in cushioned clamping and vibration isolation products from ZSI provide the proper solutions to combat these effects.

ZSI's products have earned a well-deserved reputation for unparalleled quality and effectiveness. As industry develops new needs, ZSI can and will respond with superior quality products and innovative solutions.



**EXTREME**



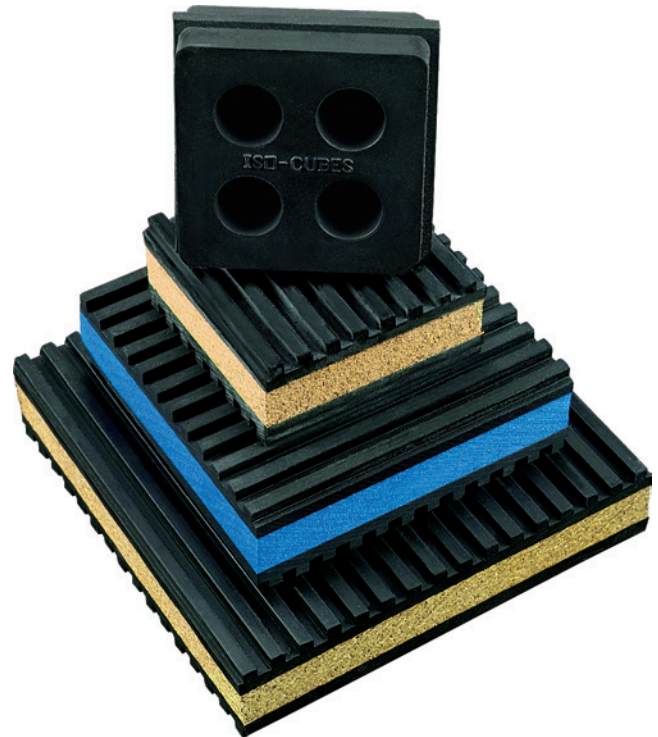
**STANDARD**



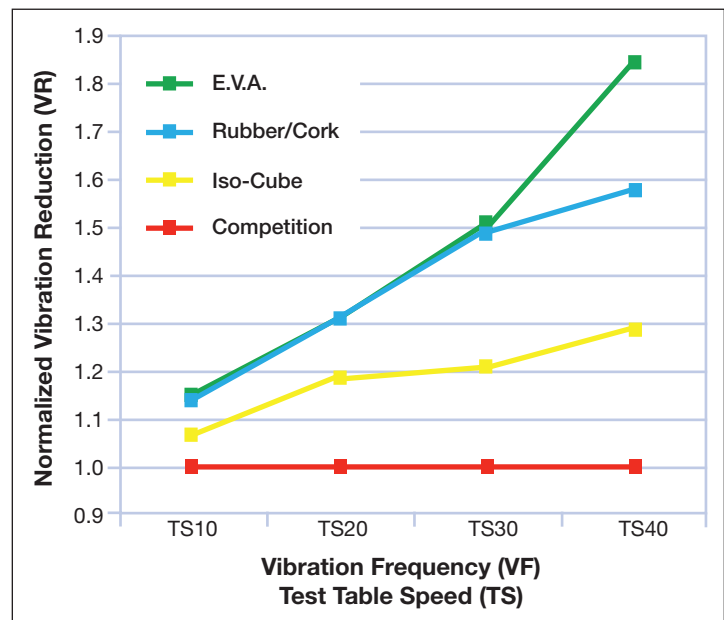
**ISO-CUBE**



**SHIELD**



**ANTI-VIBRATION PAD PERFORMANCE**



## GAMMA Shield

Rubber Mat

Shields equipment from vibration and movement when lesser amounts of vibration absorption is needed.



| Part No. | Description   |
|----------|---|
| AR-2     | 2" x 2" x 3/8" (51mm x 51mm x 10mm) All Rubber AV Pad     |
| AR-3     | 3" x 3" x 3/8" (76mm x 76mm x 10mm) All Rubber AV Pad     |
| AR-4     | 4" x 4" x 3/8" (102mm x 102mm x 10mm) All Rubber AV Pad   |
| AR-6     | 6" x 6" x 3/8" (152mm x 152mm x 10mm) All Rubber AV Pad   |
| AR-18    | 18" x 18" x 3/8" (457mm x 457mm x 10mm) All Rubber AV Pad |

## ISO - Cube

Solid Rubber Tough

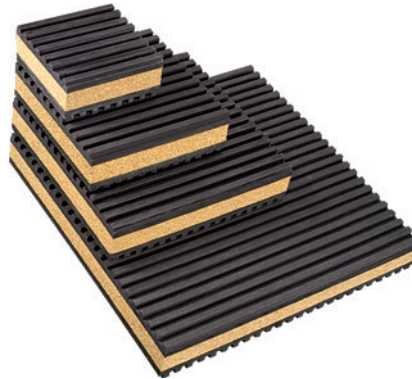
Natural rubber pads designed to reduce vibration and noise emanating from refrigeration or AC equipment. Circular design offers a suction cup effect eliminating the need to bolt the pads down. A standard 18" (457mm) pad divides into eighty-one 2" (51mm) segments which may be cut or torn into smaller pads. The 50 durometer pads will withstand a load of 180 psi (12.4 bar) with great resiliency.



| Part No. | Description                                      |
|----------|--|
| AS-2     | 2" x 2" x 3/4" (51mm x 51mm x 19mm) ISO-Cube     |
| AS-18    | 18" x 18" x 3/4" (457mm x 457mm x 19mm) ISO-Cube |

## GAMMA Standard Pad

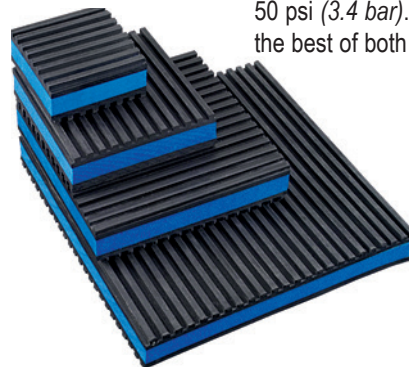
The Industry Standard Highest quality elastomeric oil resistant padding. Designed to withstand 50 psi (3.4 bar). The rubber pads are corrugated on both sides and laminated to the cork center.



| Part No. | Description  |
|----------|--|
| AC-2     | 2" x 2" x 7/8" (51mm x 51mm x 22mm) Cork / Rubber AV Pad     |
| AC-3     | 3" x 3" x 7/8" (76mm x 76mm x 22mm) Cork / Rubber AV Pad     |
| AC-4     | 4" x 4" x 7/8" (102mm x 102mm x 22mm) Cork / Rubber AV Pad   |
| AC-6     | 6" x 6" x 7/8" (152mm x 152mm x 22mm) Cork / Rubber AV Pad   |
| AC-18    | 18" x 18" x 7/8" (457mm x 457mm x 22mm) Cork / Rubber AV Pad |

## GAMMA Extreme Pad

The **BEST** Performer E.V.A. (Extreme Vibration Attenuation) is the latest generation in vibration dampening technology. In the most severe vibration extremes, testing shows the E.V.A. pad outperforms cork and rubber by greater than 3:1 and outperforms our competitor's "waffle" pad by greater than 8:1! The enhanced performance comes from the special composite foam center which is structurally more sound than cork. E.V.A. is not affected by oils or chemicals that can break down cork and is much more effective at vibration dampening than solid rubber. Designed to withstand 50 psi (3.4 bar). Choose E.V.A. to get the best of both worlds!

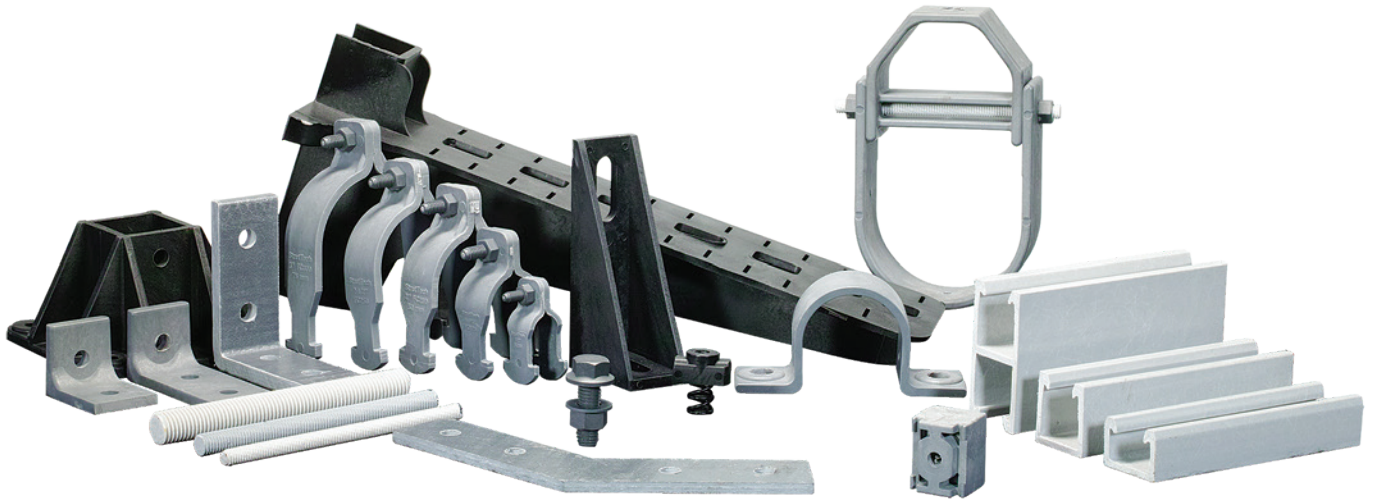


| Part No. | Description  |
|----------|--|
| AV-2     | 2" x 2" x 7/8" (51mm x 51mm x 22mm) E.V.A. Pad     |
| AV-3     | 3" x 3" x 7/8" (76mm x 76mm x 22mm) E.V.A. Pad     |
| AV-4     | 4" x 4" x 7/8" (102mm x 102mm x 22mm) E.V.A. Pad   |
| AV-6     | 6" x 6" x 7/8" (152mm x 152mm x 22mm) E.V.A. Pad   |
| AV-18    | 18" x 18" x 7/8" (457mm x 457mm x 22mm) E.V.A. Pad |



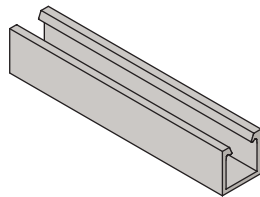


# Fiberglass Framing System



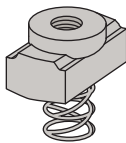
## Channel

Pages 266 - 271



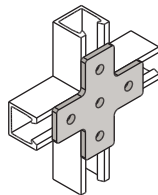
## Channel Nuts & Hardware

Pages 272 - 274



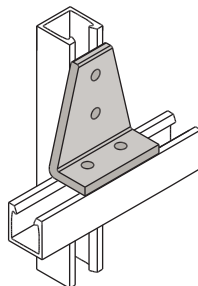
## Flat Plate Fittings

Pages 275 - 279



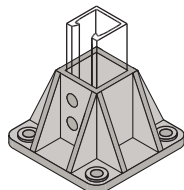
## Angle & "U" Shape Fittings

Pages 280 - 281



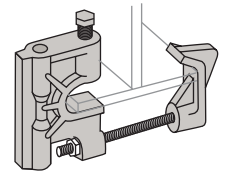
## Post Base

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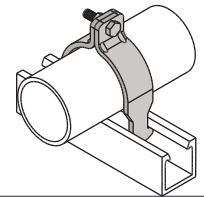
## Beam Clips & Beam Clamps

Pages 283 - 284



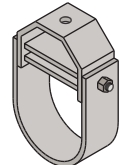
## Pipe Clamps

Pages 285 - 290



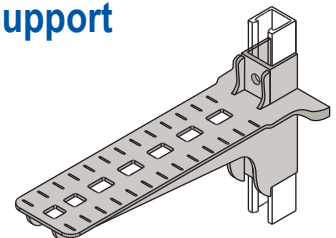
## Clevis Hanger

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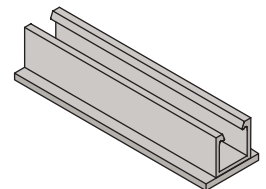
## Cable & Conduit Support

Pages 292 - 294



## Concrete Inserts

Page 295



## Technical Data

Pages 265, 296 - 298

Wesanco Fiberglass offers the many features and benefits:

- Interchangeable with Industry Standard Channel Systems
- Light Weight & Fire retardant
- Easy to cut and fabricate
- Cost competitive
- Corrosion Resistant
- Complete line of corrosion-resistant fiberglass components
- Easy to field cut and drill



## Products

We offer a complete line of corrosion resistant pipe hangers, clevis hangers, angle brackets, splice plates, base plates and fasteners typically found in common pipe/conduit support systems.



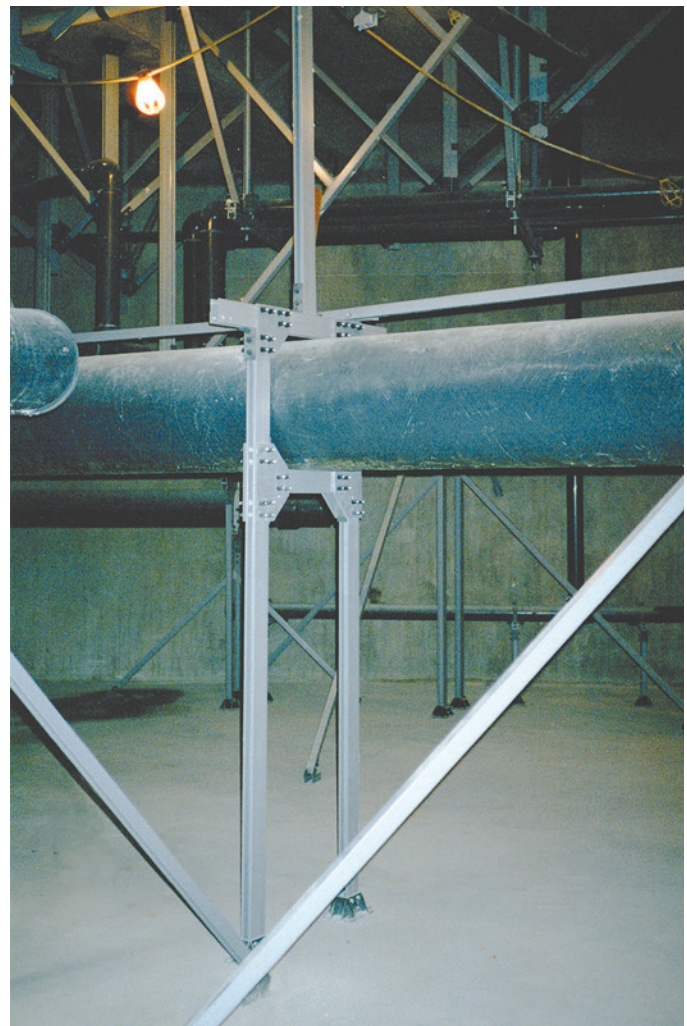
## Industries

Channel framing can be used in various industries:

- Aquaculture
- Aquariums
- Bio Tech Industry
- Bridge Utility Structures
- Chemical Plants
- Commercial Refrigeration
- Data Centers
- Electrical Applications
- Electronics Industry
- Food Processing
- Greenhouses
- Marinas
- Metal Processing
- Metal Plating Facilities
- MRI Rooms
- Oil Refineries
- Server Farm Industry
- Sewage Treatment Plants
- Shipbuilding
- Underground Vaults
- Water Rides
- Water Treatment
- Water Desalination

## Services

We have engineering assistance available and offer custom fabrication to solve you toughest support problems!.





## 1.0 SCOPE

1.1 This specification covers the requirements for the Wesanco non-metallic channel framing system.

## 2.0 SYSTEM REQUIREMENTS

2.1 To provide single source responsibility, the channel framing and components including purchasing options after startup, the supplied system (including pipe clamps) must be interchangeable with industry standard 1 5/8" steel and fiberglass channel framing systems.

## 3.0 MATERIALS

3.1 This specification is for Polyester (standard) or Vinyl Ester (premium Corrosion Resistant resins as required for all fiberglass materials. Polyurethane thermoplastics are required for injection molded components.

3.2 Flame spread properties shall be as follows: Vinyl Ester Fiberglass (Series VF) Class 1 ASTM E-84 Polyester Fiberglass (Series PF) Class 1 ASTM E-84 Polyurethane V-O UL 94V PVC (Capping Strip) 5V & V-O UL 94

3.3 Fiberglass Channel physical properties shall be as shown in chart below:

## 4.0 CHANNEL FRAMING & SYSTEM COMPONENTS

4.1 Channel Framing Series 100 & 200

4.1.1 All fiberglass channels shall be manufactured using either vinyl ester or polyester resin. Resin selection must meet requirements of the Wesanco chemical resistance chart. Fiberglass channel sizes shall have polyester surface veil over 100% of the surface to provide protection against degradation from ultraviolet light.

4.1.2 All series 200 channel shall be supplied with integral notches 1" on center. Notches shall be located on the interior flange to prevent slippage of pipe clamps and fittings after installation. In lieu of notched channel, un-notched channel

maybe used if the vertical channel sections supporting the horizontal piping are provided with stop lock hardware at each pipe clamp to prevent slippage. Stop lock hardware combines a channel nut, bolt and mounting plate attached under the pipe clamp.

4.2 Pipe Clamps

4.2.1 Adjustable Pipe Clamps shall be non-metallic and non conductive, manufactured by the injection molded process using thermoplastic polyurethane. Maximum pipe diameter supported by adjustable clamps shall be 3 inches.

4.2.2 Glass Filled Rigid Pipe Clamps for pipe and conduit under 8 inches shall be non-metallic and non-conductive; manufactured by the injection molded process using thermoplastic polyurethane or polyester. Resin selection must meet requirements of the Wesanco chemical resistance chart. Rigid pipe clamps for pipe and conduit over 8 inches shall be thermoset vinyl ester fiberglass, and shall be manufactured by either hand laminations or resin transfer molded. Injection molded parts for pipe and conduit sizes over 8 inches are not acceptable.

4.3 Channel Fittings & Post Bases

4.3.1 All channel fittings and post bases shall be made from glass filled polyurethane or polyester. Resin selection must meet requirements of the Wesanco chemical resistance chart.

4.4 Fasteners

4.4.1 All fasteners shall be made from one of the following materials: Glass filled polyurethane, vinyl ester fiberglass, stainless steel. Resin selection must meet requirements of the Wesanco chemical resistance chart.

## 5.0 ACCEPTABLE MANUFACTURER

5.1 Wesanco 800-323-7053 - www.ZSIINC.com

| Item                                     | Longitudinal Vinyl Ester | Transverse Vinyl Ester | Longitudinal Polyester | Transverse Polyester |
|--|--------------------------|------------------------|------------------------|----------------------|
| Tensile Strength (psi)                   | 37,000                   | 10,000                 | 30,000                 | 7,000                |
| Tensile Modulus (psi) x 10 <sup>6</sup>  | 3.0                      | 1.0                    | 2.5                    | 0.8                  |
| Flexural Strength (psi)                  | 37,000                   | 14,000                 | 20,000                 | 10,000               |
| Flexural Modulus (psi) x 10 <sup>6</sup> | 2.0                      | 1.0                    | 1.6                    | 0.8                  |
| Compressive Strength                     | 37,500                   | 20,000                 | 30,000                 | 15,000               |
| Shear Strength (psi)                     | 6,000                    | 5,500                  | 5,500                  | 5,500                |
| Izod Impact ft. lbs /in.                 | 30                       | 5                      | 28                     | 4                    |



Introduction

Channel

Channel Nuts & Hardware

General Fittings

Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

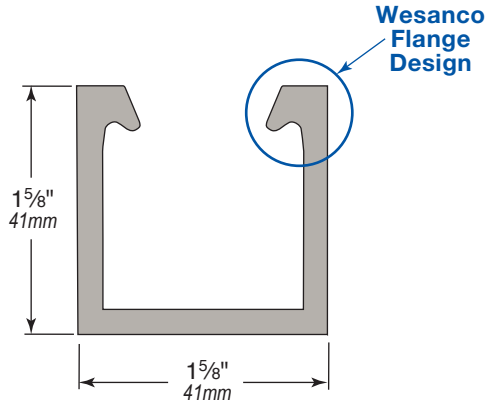
Spring Steel

Concrete Inserts

Roofing Supports

Fiberglass System

Technical Data



All Wesanco fiberglass strut channel profiles incorporate a superior flange design that provides for a reliably strong fastening and attachment method of Wesanco components and accessories.

Strut Channels are provided in standard 10' lengths with longer lengths being available upon request.

Wesanco fiberglass strut channel profiles will not only work with standard Wesanco Fiberglass components and accessories but will also work with standard Steel or Stainless Strut Clamps from the Wesanco Brand as well as many other Industry Standard Brands. Because of this unique profile design, the industry standard fiberglass strut profile known as the SST profile is not needed as with most other brands of Fiberglass Strut and Accessories that have to provide both for those users that prefer standard steel or stainless-steel strut straps to be used in their application.

Wesanco strut channels are available in two materials:

- Polyester (PF material) - Gray
- Vinyl Ester (VF material) - Beige

## Polyester and Vinyl Ester Resins

Polyester and vinyl ester strut channels are manufactured by utilizing the pultrusion process shown below. In this process, the components are made by utilizing a reinforcing polymer resin that can be either polyester or vinyl ester that is combined with multiple strands of glass filaments along with alternating layers of glass mat and U.V. resistant surfacing veils. The combined glass is pulled through the liquid resin, which permeates all the fibers. The combination of glass, resin, mats, and veil is then continuously pultruded (pulled) through a heated die that has been shaped to create the dimensions of the strut channel profile being manufactured.

The resin and glass components are cured together in the die to form a permanent pultruded strut channel profile that can be fabricated or cut to different lengths that may be needed. Since the fully cured fiberglass pultruded strut channel profile is reinforced with an internal assortment of permanently bonded continuous glass fibers, mats, and external veils it possesses great strength.

Wesanco pultruded fiberglass strut channels have exceptional corrosion and fire resistance. These characteristics of fiberglass materials make it the choice for many harsh industrial applications.

Wesanco polyester and vinyl ester strut channels are color coded. Polyester channels are colored gray and the vinyl ester channels are colored beige giving you the assurance you have the correct product for your application.



Fiberglass channels are produced in two resins, Polyester (PF) and Vinyl Ester (VF), that contain continuous glass fibers. This provides excellent strength characteristics and thermal properties.

All pultruded channels are produced with U.V. resistant surface veils. These materials are Class 1 Fire Rated per ASTM E-84. Refer to the Corrosion Resistance Guide for your specific application.

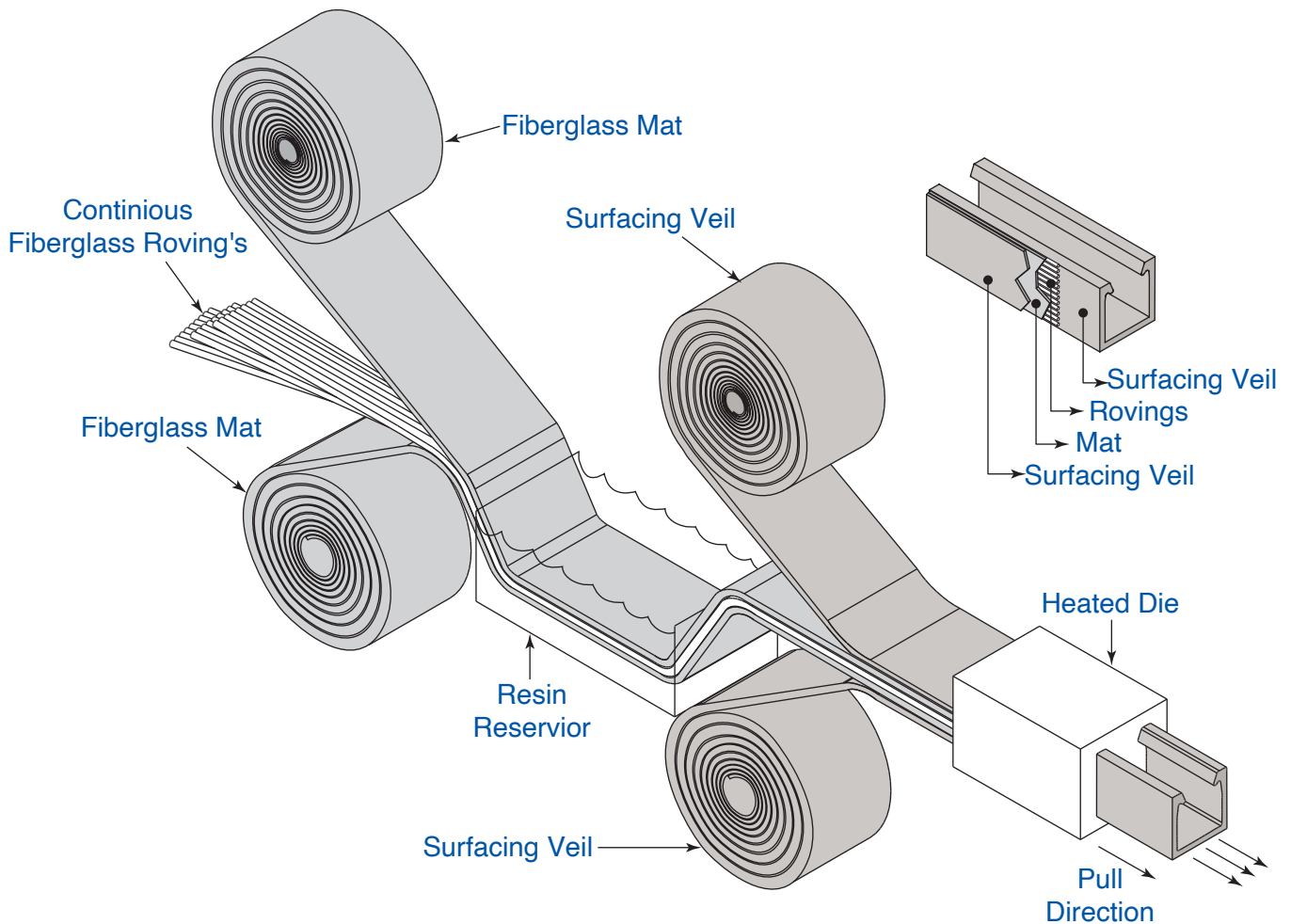
## Polyester:

- General Purpose
- Good Corrosion Resistance for most applications
- Temperature Range - 30°F to +150°F (-34°C to 66°C)
- Standard Color Gray

## Vinyl Ester:

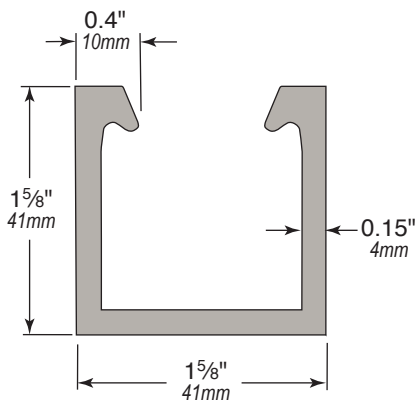
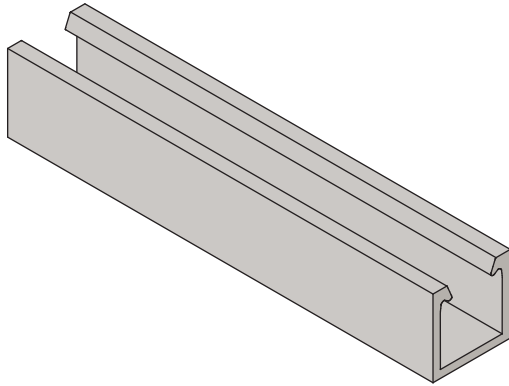
- Premium Grade
- Excellent Corrosion Resistance
- Temperature Range - 35°F to +200°F (-37°C to 93°C)
- Standard Color Beige

## PULTRUSION PROCESS



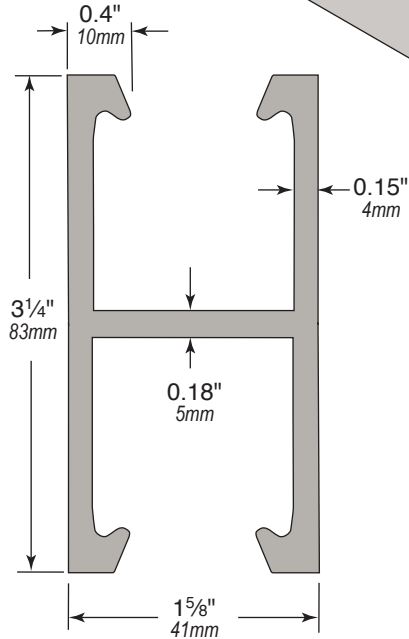
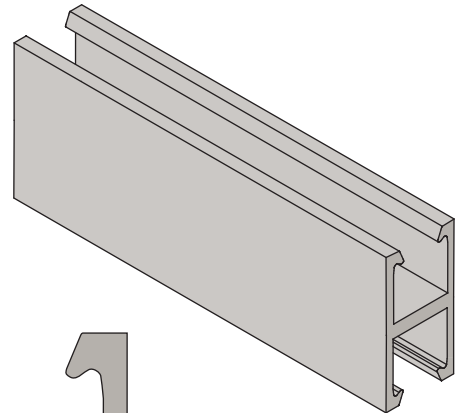
Standard: Polyester (PF) or Vinyl Ester (VF)

## W200PF 1-5/8" x 1-5/8" Solid Channel



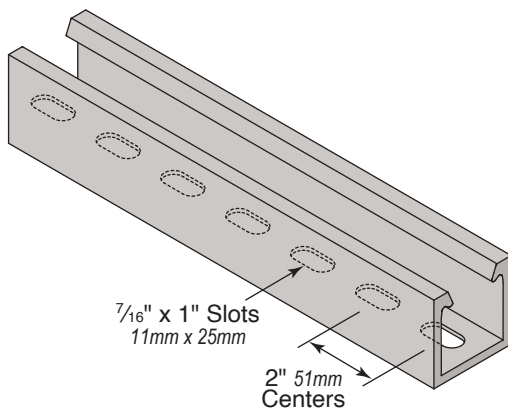
| Part No. | Material                          |
|----------|-----------------------------------|
| W200PF   | Polyester Fire Rated Fiberglass   |
| W200VF   | Vinyl Ester Fire Rated Fiberglass |

## W201PF 1-5/8" x 3-1/4" Solid Back-to-Back Channel



| Part No. | Material                          |
|----------|-----------------------------------|
| W201PF   | Polyester Fire Rated Fiberglass   |
| W201VF   | Vinyl Ester Fire Rated Fiberglass |

## W200EHPF 1-5/8" x 1-5/8" Channel with Short Slots

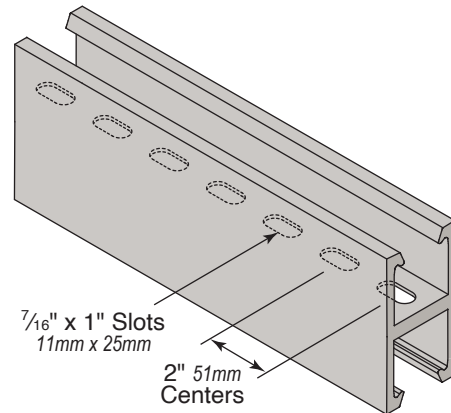


7/16" x 1" Slots  
11mm x 25mm

2" 51mm  
Centers

| Part No. | Material                          |
|----------|-----------------------------------|
| W200EHPF | Polyester Fire Rated Fiberglass   |
| W200EHVF | Vinyl Ester Fire Rated Fiberglass |

## W201EHPF 1-5/8" x 3-1/4" Back-to-Back Channel with Short Slots



7/16" x 1" Slots  
11mm x 25mm

2" 51mm  
Centers

| Part No. | Material                          |
|----------|-----------------------------------|
| W201EHPF | Polyester Fire Rated Fiberglass   |
| W201EHVF | Vinyl Ester Fire Rated Fiberglass |



Channel Load Data

Elements of Sections

| Part No.                                     | Wt./Ft. Lbs. (Kg/M) | Area of Section Sq. in. (Sq. cm) | X-X Axis                                  |   |                 | Y-Y Axis                                  |   |                |
|--|---------------------|----------------------------------|---|---|-----------------|---|---|----------------|
|  |                     |                                  | Ix in. <sup>4</sup> (Ix cm <sup>4</sup> ) | Sx in. <sup>3</sup> (Sx cm <sup>3</sup> ) | cx in. (cx. cm) | Iy in. <sup>4</sup> (Iy cm <sup>4</sup> ) | Sy in. <sup>3</sup> (Sy cm <sup>3</sup> ) | cy in. (cy cm) |
| <b>1-5/8" x 1-5/8" (41mm x 41mm) Channel</b> |                     |                                  |   |   |                 |   |   |                |
| W200PF                                       | 0.82 (0.37)         | 1.06 (6.63)                      | 0.31 (12.90)                              | 0.54 (8.85)                               | 0.70 (1.78)     | 0.42 (17.48)                              | 0.63 (10.32)                              | 0.82 (2.08)    |
| <b>1-5/8" x 3-1/4" (41mm x 83mm) Channel</b> |                     |                                  |   |   |                 |   |   |                |
| W201PF                                       | 1.64 (0.74)         | 2.12 (13.67)                     | 1.77 (73.67)                              | 0.91 (14.91)                              | 1.63 (4.14)     | 0.85 (35.38)                              | 0.63 (10.32)                              | 0.82 (2.08)    |

Ultimate Design Flexural: 40,000 psi (longitudinal)  
 Modulus of elasticity=E= 3,000,000 psi (longitudinal)  
 Minimum Safety Factor= 3:1

1 5/8" x 1 5/8" (41mm x 41mm) Channel Beam and Column Loads

| Span       | Maximum Uniform Beam Load |              | Uniform Load at Deflection Span /360 |             | Maximum Column Load |
|------------|---------------------------|--------------|--------------------------------------|-------------|---------------------|
|            | Load                      | Deflection   | Load                                 | Deflection  |                     |
| In (mm)    | Lbs (kN)                  | In (mm)      | Lbs (kN)                             | In (mm)     | Lbs (kN)            |
| 12 (305)   | 3,565 (15.9)              | 0.1 (2.59)   | 1,160 (5.2)                          | 0.03 (0.84) | 5,165 (23.0)        |
| 18 (457)   | 2,376 (10.6)              | 0.23 (5.85)  | 516 (2.3)                            | 0.05 (1.27) | 4,709 (20.9)        |
| 24 (610)   | 1,783 (7.9)               | 0.41 (10.42) | 290 (1.3)                            | 0.07 (1.70) | 4,172 (18.6)        |
| 30 (762)   | 1,425 (6.3)               | 0.64 (16.27) | 185 (0.8)                            | 0.08 (2.11) | 3,557 (15.8)        |
| 36 (914)   | 1,188 (5.3)               | 0.92 (23.44) | 129 (0.6)                            | 0.10 (2.54) | 2,862 (12.7)        |
| 48 (1,219) | 891 (4.0)                 | 1.64 (41.65) | 72 (0.3)                             | 0.13 (3.38) | 1,638 (7.3)         |
| 60 (1,524) | 713 (3.2)                 | 2.56 (65.09) | 46 (0.2)                             | 0.17 (4.25) | 1,048 (4.7)         |
| 72 (1,829) | 595 (2.6)                 | 3.69 (93.72) | 32 (0.1)                             | 0.20 (5.09) | 728 (3.2)           |

1 5/8" x 3 1/4" (41mm x 83mm) Back-to-Back Channel Beam and Column Loads

| Span       | Maximum Uniform Beam Load |              | Uniform Load at Deflection Span /360 |             | Maximum Column Load |
|------------|---------------------------|--------------|--------------------------------------|-------------|---------------------|
|            | Load                      | Deflection   | Load                                 | Deflection  |                     |
| In (mm)    | Lbs (kN)                  | In (mm)      | Lbs (kN)                             | In (mm)     | Lbs (kN)            |
| 12 (305)   | 5,565 (24.8)              | 0.03 (0.71)  | 5,565 (24.8)                         | 0.03 (0.84) | 9,463 (42.1)        |
| 18 (457)   | 3,710 (16.5)              | 0.06 (1.63)  | 2,917 (13.0)                         | 0.05 (1.27) | 8,875 (39.5)        |
| 24 (610)   | 2,783 (12.4)              | 0.11 (2.87)  | 1,641 (7.3)                          | 0.07 (1.70) | 8,189 (36.4)        |
| 30 (762)   | 2,226 (9.9)               | 0.18 (4.50)  | 1,050 (4.7)                          | 0.08 (2.11) | 7,412 (33.0)        |
| 36 (914)   | 1,855 (8.3)               | 0.25 (6.46)  | 731 (3.3)                            | 0.1 (2.54)  | 6,457 (28.7)        |
| 48 (1,219) | 1,391 (6.2)               | 0.45 (11.49) | 410 (1.8)                            | 0.13 (3.38) | 4,539 (20.2)        |
| 60 (1,524) | 1,113 (5.0)               | 0.71 (17.98) | 262 (1.2)                            | 0.17 (4.25) | 2,905 (12.9)        |
| 72 (1,829) | 928 (4.1)                 | 1.02 (25.88) | 182 (0.8)                            | 0.2 (5.09)  | 2,017 (9.0)         |

Published design loads are based on usage at 70°F. (21°C)  
 All beams should be supported in a manner that prevents rotation at supports.  
 Long, deep beams should be tied between supports to prevent twist  
**For concentrated loads:** Reduce allowable loads by 50% and reduce deflections by 25%.

**\*Maximum loads** are based on full lateral support of the channel, rotation prevention at the support points and the design safety factor of 3:1

**\*\*Load exceeds** maximum allowable stress for 3:1 safety factor.

**\*\*\*For Beam Spans** over 36" with loads approaching these maximum design limits, please contact the manufacturer's technical representative to confirm support configuration and lateral stability.

**Column Loads:**

Table lists the total allowable concentric axial load for various unsupported column heights based on a minimum safety factor of 3:1. Eccentric loads should be reduced according to standard practice. \*\*\*With column top and bottom pin connected n=1 and loads in table may increase by 3x.

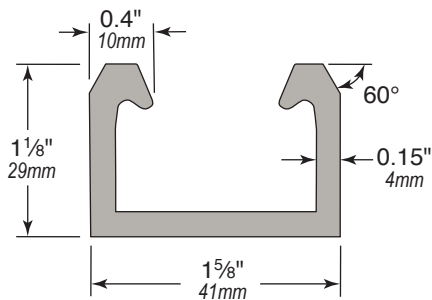
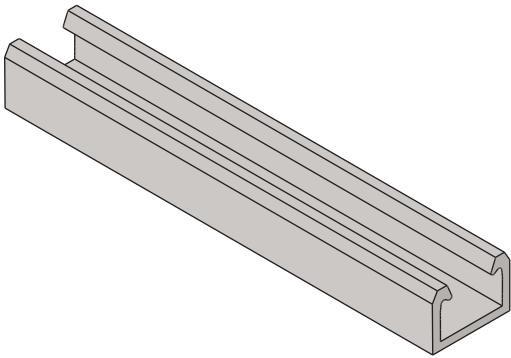


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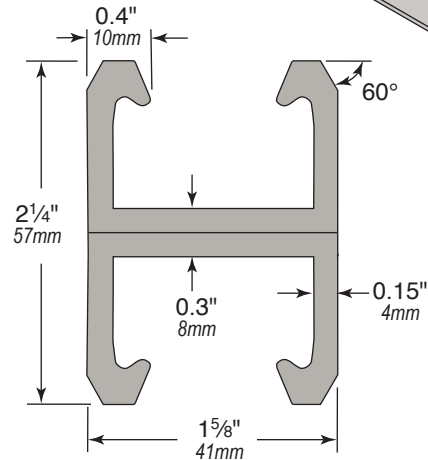
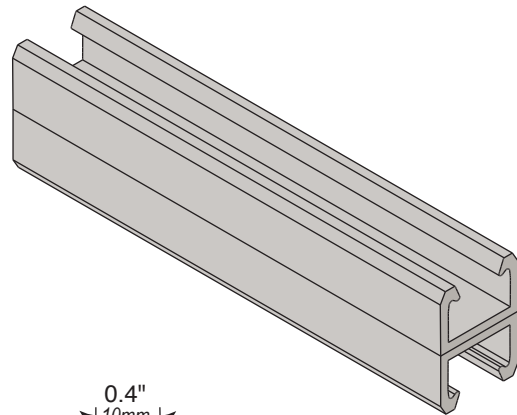
Standard: Polyester (PF) or Vinyl Ester (VF)

## W800PF 1-5/8" x 1-1/8" Solid Channel



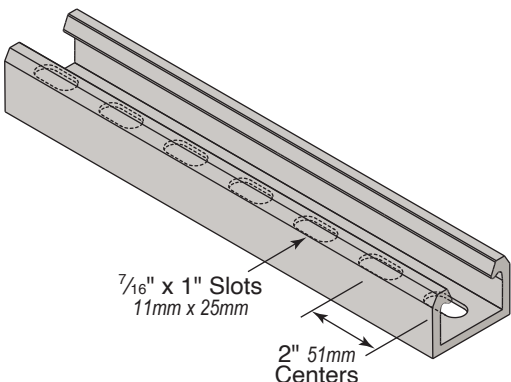
| Part No.      | Material                          |
|---------------|-----------------------------------|
| <b>W800PF</b> | Polyester Fire Rated Fiberglass   |
| <b>W800VF</b> | Vinyl Ester Fire Rated Fiberglass |

## W801PF 1-5/8" x 2-1/4" Solid Back-to-Back Channel



| Part No.      | Material                          |
|---------------|-----------------------------------|
| <b>W801PF</b> | Polyester Fire Rated Fiberglass   |
| <b>W801VF</b> | Vinyl Ester Fire Rated Fiberglass |

## W800EHPF 1-5/8" x 1-1/8" Channel with Short Slots

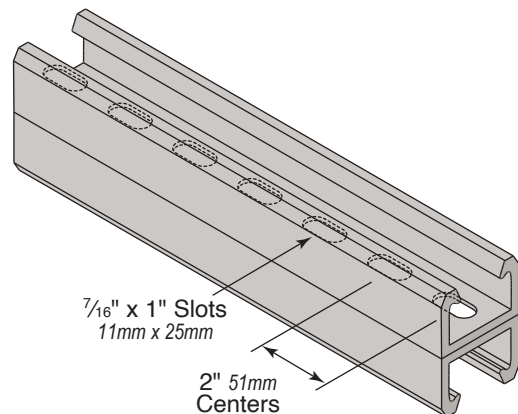


7/16" x 1" Slots  
11mm x 25mm

2" 51mm  
Centers

| Part No.        | Material                          |
|-----------------|-----------------------------------|
| <b>W800EHPF</b> | Polyester Fire Rated Fiberglass   |
| <b>W800EHVF</b> | Vinyl Ester Fire Rated Fiberglass |

## W801EHPF 1-5/8" x 2-1/4" Back-to-Back Channel with Short Slots



7/16" x 1" Slots  
11mm x 25mm

2" 51mm  
Centers

| Part No.        | Material                          |
|-----------------|-----------------------------------|
| <b>W801EHPF</b> | Polyester Fire Rated Fiberglass   |
| <b>W801EHVF</b> | Vinyl Ester Fire Rated Fiberglass |



Channel Load Data

Elements of Sections

| Part No.  | Wt./Ft. Lbs. (Kg/M) | Area of Section Sq. in. (Sq. cm) | X-X Axis                                  |   |                  | Y-Y Axis                                  |   |                |
|---|---------------------|----------------------------------|---|---|------------------|---|---|----------------|
|   |                     |                                  | Ix in. <sup>4</sup> (Ix cm <sup>4</sup> ) | Sx in. <sup>3</sup> (Sx cm <sup>3</sup> ) | cx. in. (cx. cm) | Iy in. <sup>4</sup> (Iy cm <sup>4</sup> ) | Sy in. <sup>3</sup> (Sy cm <sup>3</sup> ) | cy in. (cy cm) |
| <b>1-5/8" x 1-1/8" (41mm x 29mm) Channel</b>              |                     |                                  |   |   |                  |   |   |                |
| W800PF  | 0.47 (0.21)         | 0.61 (3.94)                      | 0.10 (4.16)                               | 0.40 (6.56)                               | 0.51 (1.30)      | 0.22 (9.16)                               | 0.60 (9.83)                               | 0.75 (1.91)    |
| <b>1-5/8" x 2-1/4" (41mm x 57mm) Back to Back Channel</b> |                     |                                  |   |   |                  |   |   |                |
| W801PF  | 0.94 (1.61)         | 1.22 (7.87)                      | 0.42 (17.48)                              | 0.59 (9.67)                               | 1.13 (2.87)      | 0.44 (18.31)                              | 0.60 (9.83)                               | 0.75 (1.91)    |

Ultimate Design Flexural: 40,000 psi (longitudinal)  
 Modulus of elasticity=E= 3,000,000 psi (longitudinal)  
 Minimum Safety Factor= 3:1

1 5/8" x 1 1/8" (41mm x 29mm) Channel Beam and Column Loads

| Span       | Maximum Uniform Beam Load |               | Uniform Load at Deflection Span /360 |             | Maximum Column Load |
|------------|---------------------------|---------------|--------------------------------------|-------------|---------------------|
|            | Load                      | Deflection    | Load                                 | Deflection  |                     |
| In (mm)    | Lbs (kN)                  | In (mm)       | Lbs (kN)                             | In (mm)     | Lbs (kN)            |
| 12 (305)   | 1,710 (7.6)               | 0.16 (4.03)   | 377 (1.7)                            | 0.03 (0.88) | 2,897 (12.9)        |
| 18 (457)   | 1,140 (5.1)               | 0.36 (9.07)   | 168 (0.7)                            | 0.05 (1.33) | 2,469 (11.0)        |
| 24 (610)   | 856 (3.8)                 | 0.64 (16.14)  | 95 (0.4)                             | 0.07 (1.79) | 1,955 (8.7)         |
| 30 (762)   | 685 (3.0)                 | 0.99 (25.20)  | 60 (0.3)                             | 0.09 (2.21) | 1,363 (6.1)         |
| 36 (914)   | 570 (2.5)                 | 1.43 (36.27)  | 42 (0.2)                             | 0.11 (2.67) | 946 (4.2)           |
| 48 (1,219) | 427 (1.9)                 | 2.54 (64.49)  | 23 (0.1)                             | 0.14 (3.55) | 532 (2.4)           |
| 60 (1,524) | 342 (1.5)                 | 3.97 (100.79) | 15 (0.1)                             | 0.18 (4.45) | 340 (1.5)           |
| 72 (1,829) | 286 (1.3)                 | 5.71 (145.11) | 11 (0.05)                            | 0.21 (5.33) | 236 (1.1)           |

1 5/8" x 2 1/4" (41mm x 57mm) Back-to-Back Channel Beam and Column Loads

| Span       | Maximum Uniform Beam Load |              | Uniform Load at Deflection Span /360 |             | Maximum Column Load |
|------------|---------------------------|--------------|--------------------------------------|-------------|---------------------|
|            | Load                      | Deflection   | Load                                 | Deflection  |                     |
| In (mm)    | Lbs (kN)                  | In (mm)      | Lbs (kN)                             | In (mm)     | Lbs (kN)            |
| 12 (305)   | 3,994 (17.8)              | 0.09 (2.19)  | 1,634 (7.3)                          | 0.03 (0.88) | 6,259 (27.8)        |
| 18 (457)   | 2,663 (11.8)              | 0.19 (4.88)  | 726 (3.2)                            | 0.05 (1.33) | 5,784 (25.7)        |
| 24 (610)   | 1,997 (8.9)               | 0.34 (8.69)  | 408 (1.8)                            | 0.07 (1.79) | 5,228 (23.3)        |
| 30 (762)   | 1,598 (7.1)               | 0.53 (13.58) | 261 (1.2)                            | 0.09 (2.21) | 4,594 (20.4)        |
| 36 (914)   | 1,331 (5.9)               | 0.77 (19.58) | 182 (0.8)                            | 0.11 (2.67) | 3,883 (17.3)        |
| 48 (1,219) | 999 (4.4)                 | 1.37 (34.78) | 102 (0.5)                            | 0.14 (3.55) | 2,367 (10.5)        |
| 60 (1,524) | 799 (3.6)                 | 2.14 (54.35) | 65 (0.3)                             | 0.18 (4.45) | 1,514 (6.7)         |
| 72 (1,829) | 666 (3.0)                 | 3.08 (78.28) | 45 (0.2)                             | 0.21 (5.33) | 1,051 (4.7)         |

Published design loads are based on usage at 70°F. (21°C)  
 All beams should be supported in a manner that prevents rotation at supports.  
 Long, deep beams should be tied between supports to prevent twist  
**For concentrated loads:** Reduce allowable loads by 50% and reduce deflections by 25%.

**\*Maximum loads** are based on full lateral support of the channel, rotation prevention at the support points and the design safety factor of 3:1

**\*\*Load exceeds** maximum allowable stress for 3:1 safety factor.

**\*\*\*For Beam Spans** over 36" with loads approaching these maximum design limits, please contact the manufacturer's technical representative to confirm support configuration and lateral stability.

**Column Loads:**

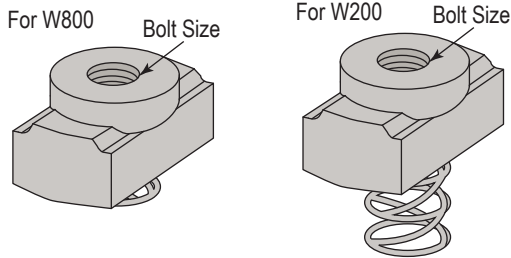
Table lists the total allowable concentric axial load for various unsupported column heights based on a minimum safety factor of 3:1. Eccentric loads should be reduced according to standard practice. \*\*\*With column top and bottom pin connected n=1 and loads in table may increase by 3x.



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## Channel Nuts

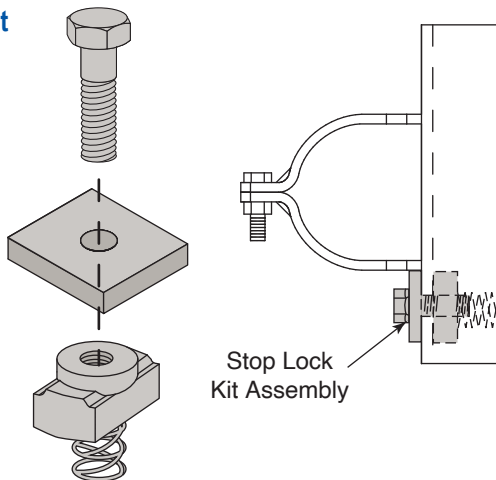
- Spring channel nuts primary use is to attach fittings to the open face of channels
- Nut is molded with integral spring
- Spring nut can be installed at any location from the open side of the channel
- Highly Corrosion Resistant.
- Standard Material is Delrin



| Part No. | Bolt Size   | Spring          | For Use With Channel Size                       |
|----------|-------------|-----------------|---|
| W5-4FG   | 1/4" (6mm)  | Short Spring    | W800 Series<br>1-5/8" x 1-1/8"<br>(41mm x 29mm) |
| W5-6FG   | 3/8" (10mm) |                 |   |
| W5-8FG   | 1/2" (13mm) |                 |   |
| W2-4FG   | 1/4" (6mm)  | Standard Spring | W200 Series<br>1-5/8" x 1-5/8"<br>(41mm x 41mm) |
| W2-6FG   | 3/8" (10mm) |                 |   |
| W2-8FG   | 1/2" (13mm) |                 |   |

Note: Standard quantity 25 each

## Stop-Lock Kit

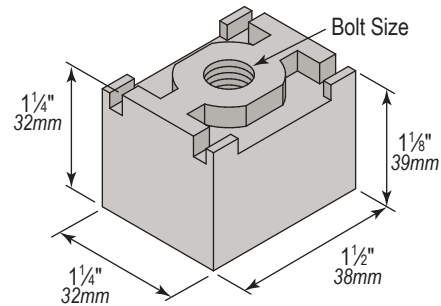


| Part No. | Size        | Kit Contains                    |
|----------|-------------|---------------------------------|
| SLK-375  | 3/8" (10mm) | W2-6FG, W5053PU, & 37X125HHCSPU |
| SLK-500  | 1/2" (13mm) | W2-8FG, W5054PU, & 50X125HHCSPU |

Note: Standard quantity 25 each

## Channel Nuts

- Channel Nuts can be used for attaching fittings to the open or back side of channel
- Nuts are also used to "double nut" threaded rod to channels
- Channel Nuts will not rotate in the channel
- Channel Nut can only be installed by sliding the nut into position from the end of the channel
- Material is Polyurethane (PU)

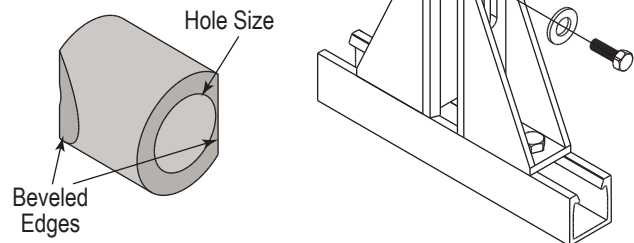


| Part No.               |                  | Bolt Size   | For Use With Channel Size                       |
|------------------------|------------------|-------------|---|
| Polyurethane Gray (PU) | Nylon Black (NY) |             |   |
| W2-6WSPU               | W2-6WSNY         | 3/8" (10mm) | W200 Series<br>1-5/8" x 1-5/8"<br>(41mm x 41mm) |
| W2-8WSPU               | W2-8WSNY         | 1/2" (13mm) |   |
| W2-10WSPU              | W2-10WSNY        | 5/8" (16mm) |   |
| W2-12WSPU              | W2-12WSNY        | 3/4" (19mm) |   |

Note: Standard quantity 25 each

## Channel Space

When attaching fittings to side walls of channels, through bolting requires a channel spacer to prevent wall compression under heavy load conditions. Spacer is beveled on opposite sides for easy rotation into channel



| Part No.  | Hole Size   |
|-----------|-------------|
| SPA037PVC | 3/8" (10mm) |
| SPA050PVC | 1/2" (13mm) |

Note: Standard quantity 25 each

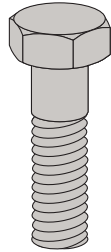


- Standard fasteners are used with Wesanco channel fittings and fiberglass structural shapes in the fabrication of pipe support systems
- Standard fasteners are available in two corrosion resistant grades:
  - Glass filled Polyurethane
  - 316 Stainless Steel

## Notes

- Inquire about additional Polyurethane Bolt sizes
- Polyurethane physical properties are affected at elevated temperatures. Physical properties will decrease by 50% at 150°F (66°C)

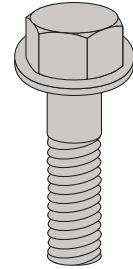
## Spring Nut Hex Bolts



| Part No.               |                               | Bolt Size             |
|------------------------|-------------------------------|-----------------------|
| Polyurethane Gray (PU) | Stainless Steel Type 316 (S6) |                       |
| HHCS25X075PU           | HHCS25X075S6                  | ¼" x ¾" (6 x 19mm)    |
| HHCS25X100PU *         | HHCS25X100S6 *                | ¼" x 1" (6 x 25mm)    |
| HHCS25X125PU           | HHCS25X125S6                  | ¼" x 1-¼" (6 x 32mm)  |
| HHCS31X125PU           | HHCS31X125S6                  | ⅝" x 1-¼" (8 x 32mm)  |
| HHCS31X200PU           | HHCS31X200S6                  | ⅝" x 2" (8 x 51mm)    |
| HHCS37X100PU *         | HHCS37X100S6 *                | ⅜" x 1" (10 x 25mm)   |
| HHCS37X125PU           | HHCS37X125S6                  | ⅜" x 1-¼" (10 x 32mm) |
| HHCS37X150PU           | HHCS37X150S6                  | ⅜" x 1-½" (10 x 38mm) |
| HHCS37X200PU           | HHCS37X200S6                  | ⅜" x 2" (10 x 51mm)   |
| HHCS37X250PU           | HHCS37X250S6                  | ⅜" x 2-½" (10 x 64mm) |
| HHCS37X300PU           | HHCS37X300S6                  | ⅜" x 3" (10 x 76mm)   |
| HHCS50X100PU *         | HHCS50X100S6 *                | ½" x 1" (13 x 25mm)   |
| HHCS50X125PU           | HHCS50X125S6                  | ½" x 1-¼" (13 x 32mm) |
| HHCS50X150PU           | HHCS50X150S6                  | ½" x 1-½" (13 x 38mm) |
| HHCS50X200PU           | HHCS50X200S6                  | ½" x 2" (13 x 51mm)   |
| HHCS50X250PU           | HHCS50X250S6                  | ½" x 2-½" (13 x 64mm) |
| HHCS50X300PU           | HHCS50X300S6                  | ½" x 3" (13 x 76mm)   |
| HHCS75X200PU           | HHCS75X200S6                  | ¾" x 2" (19 x 51mm)   |

\* For use with W800 1-⅝" x 1-⅛" Channel and spring nuts attachments.  
Note: Standard quantity 25 each

## Flanged Hex Bolts

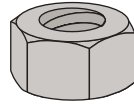


| Part No.<br>Polyurethane Gray (PU) | Bolt Size             |
|------------------------------------|-----------------------|
| HHFB25X075PU                       | ¼" x ¾" (6 x 19mm)    |
| HHFB25X100PU *                     | ¼" x 1" (6 x 25mm)    |
| HHFB25X125PU                       | ¼" x 1-¼" (6 x 32mm)  |
| HHFB25X150PU                       | ¼" x 1-½" (6 x 38mm)  |
| HHFB31X150PU                       | ⅝" x 1-½" (8 x 32mm)  |
| HHFB37X100PU *                     | ⅜" x 1" (10 x 25mm)   |
| HHFB37X125PU                       | ⅜" x 1-¼" (10 x 32mm) |
| HHFB37X150PU                       | ⅜" x 1-½" (10 x 38mm) |
| HHFB37X200PU                       | ⅜" x 2" (10 x 51mm)   |
| HHFB37X250PU                       | ⅜" x 2-½" (10 x 64mm) |
| HHFB37X300PU                       | ⅜" x 3" (10 x 76mm)   |
| HHFB50X100PU *                     | ½" x 1" (13 x 25mm)   |
| HHFB50X125PU                       | ½" x 1-¼" (13 x 32mm) |
| HHFB50X150PU                       | ½" x 1-½" (13 x 38mm) |
| HHFB50X200PU                       | ½" x 2" (13 x 51mm)   |
| HHFB50X250PU                       | ½" x 2-½" (13 x 64mm) |
| HHFB50X300PU                       | ½" x 3" (13 x 76mm)   |
| HHFB50X350PU                       | ½" x 3-½" (13 x 89mm) |

\* For use with W800 1-⅝" x 1-⅛" Channel and spring nuts attachments.  
Note: Standard quantity 25 each  
Other sizes available upon request  
Flanged bolts not available in Stainless Steel



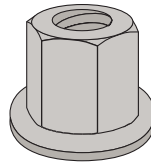
## Standard Duty Polyurethane Nuts



| Part No.               |                               | Hex Nut Size |
|------------------------|-------------------------------|--------------|
| Polyurethane Gray (PU) | Stainless Steel Type 316 (S6) |              |
| HN25PU                 | HN25S6                        | 1/4" (6mm)   |
| HN31PU                 | HN31S6                        | 5/16" (8mm)  |
| HN37PU                 | HN37S6                        | 3/8" (10mm)  |
| HN50PU                 | HN50S6                        | 1/2" (13mm)  |
| HN62PU                 | HN62S6                        | 5/8" (16mm)  |
| HN75PU                 | HN75S6                        | 3/4" (19mm)  |

Note: Standard quantity 25 each

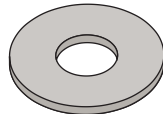
## Heavy Duty Flanged Hex Nuts



| Part No. Polyurethane Gray (PU) | Heavy Duty Nut Size |
|---------------------------------|---------------------|
| FHN31PU                         | 5/16" (8mm)         |
| FHN37PU                         | 3/8" (10mm)         |
| FHN50PU                         | 1/2" (13mm)         |
| FHN62PU                         | 5/8" (16mm)         |
| FHN75PU                         | 3/4" (19mm)         |
| FHN100PU                        | 1" (25mm)           |

Note: Standard quantity 25 each

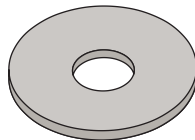
## Washers



| Part No. Polyurethane Gray (PU) | Washer Size |
|---------------------------------|-------------|
| FW25PU                          | 1/4" (6mm)  |
| FW37PU                          | 3/8" (10mm) |
| FW50PU                          | 1/2" (13mm) |
| FW62PU                          | 5/8" (16mm) |
| FW75PU                          | 3/4" (19mm) |
| FW100PU                         | 1" (25mm)   |

Note: Standard quantity 25 each

## Fender Washers

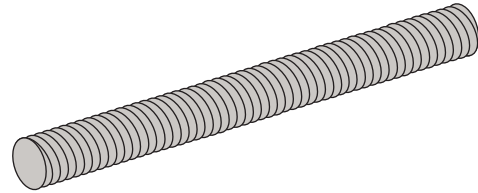


| Part No. Polyurethane Gray (PU) | Washer Size |
|---------------------------------|-------------|
| FWPU75X225                      | 3/4" (19mm) |

Note: Standard quantity 25 each

## Threaded Rod

- Wesanco offers all thread rod in two materials, Vinyl Ester Fiberglass and 316 Stainless Steel
- Fiberglass threaded rod is stocked in 8' lengths. Cut to length sizes available
- Stainless Steel is available in 3', 4', 6' & 12' foot (0.9m, 1.2m, 1.8m, 3.6m) length

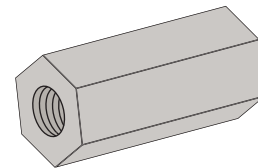


| Part No.                       |  | Threaded Rod Size | Thread Shear for Vinyl Ester (VE) |
|--------------------------------|--|-------------------|-----------------------------------|
| Vinyl Ester (VE) 8 Foot (2.4m) | Stainless Steel Type 316 (STS6) 12 Foot (3.7m) |                   |                                   |
| W7125VE8FT                     | W7125STS612FT                                  | 3/8" (10mm)       | 415 lb (1.85kN)                   |
| W7126VE8FT                     | W7126STS612FT                                  | 1/2" (13mm)       | 570 lb (2.54kN)                   |
| W7127VE8FT                     | W7127STS612FT                                  | 5/8" (16mm)       | 1,260 lb (5.60kN)                 |
| W7128VE8FT                     | W7128STS612FT                                  | 3/4" (19mm)       | 1,700 lb (7.56kN)                 |
| W7131VE8FT                     | W7131STS612FT                                  | 1" (25mm)         | 3,000 lb (13.35kN)                |

Note: Standard quantity 25 each  
Thread shear values represent a 3:1 safety factor.

## Threaded Rod Couplers

- Wesanco offers rod couplers in two materials, Polyurethane, and 316 Stainless Steel
- Couplers provide a simple way to connect threaded rod



| Part No.               |                               | Threaded Rod Coupler Size | Thread Shear for Polyurethane (PU) |
|------------------------|-------------------------------|---------------------------|------------------------------------|
| Polyurethane Gray (PU) | Stainless Steel Type 316 (S6) |                           |                                    |
| W7135PU                | W7135S6                       | 3/8" (10mm)               | 800 lb (3.56kN)                    |
| W7136PU                | W7136S6                       | 1/2" (13mm)               | 870 lb (3.87kN)                    |
| W7137PU                | W7137S6                       | 5/8" (16mm)               | 1,500 lb (6.67kN)                  |
| W7138PU                | W7138S6                       | 3/4" (19mm)               | 1,500 lb (6.67kN)                  |

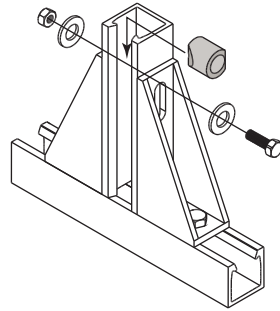
Note: Standard quantity 25 each  
Thread shear values represent a 3:1 safety factor.



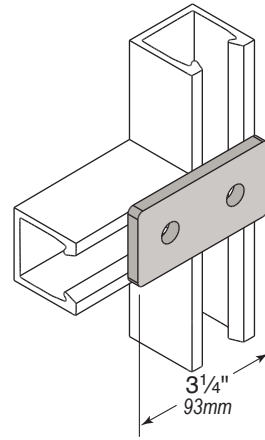


## Flat Plate Fittings

- Industry standard channel fittings for fabricating structures with Wesanco channel
- Fittings can be attached with channel nuts or through bolted to strut back of side walls
- No Special Tools Required
- Highly Corrosion Resistant. See Chemical Resistant Guide on pages 296 - 298
- Standard fitting material is either:
  - Polyester (PF) FRP Gray
  - Vinyl Ester (VF) FRP Beige
  - Injection Molding Thermoplastics
  - Polyurethane (PU)
  - Polyester (PE);
- NOTES: When attaching fittings to side walls of channels, through bolting requires a channel spacer to prevent wall compression under heavy load conditions. Order part # SPA037PVC for  $\frac{3}{8}$ " (10mm) bolts and part # SPA050PVC for  $\frac{1}{2}$ " (13mm) bolts.

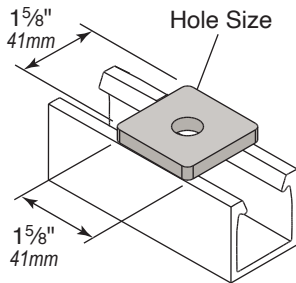


## Two Hole Splice



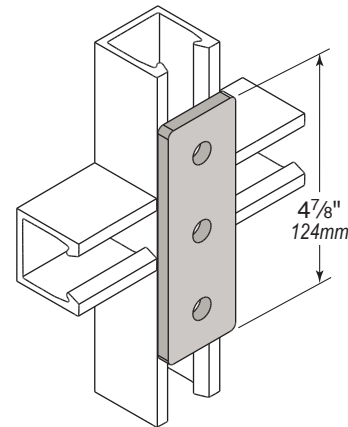
| Part No. | Material                         |
|----------|----------------------------------|
| W5007PF  | Polyester Fire Rated FRP Gray    |
| W5007VF  | Vinyl Ester Fire Rated FRP Beige |

## One Hole Washer



| Part No.                           |                                       | Bolt Size              |
|------------------------------------|---------------------------------------|------------------------|
| Polyester Fire Rated FRP Gray (PF) | Vinyl Ester Fire Rated FRP Beige (VF) |                        |
| W5053PF                            | W5053VF                               | $\frac{3}{8}$ " (10mm) |
| W5054PF                            | W5054VF                               | $\frac{1}{2}$ " (13mm) |
| W5055PF                            | W5055VF                               | $\frac{5}{8}$ " (16mm) |
| W5056PF                            | W5056VF                               | $\frac{3}{4}$ " (19mm) |

## Three Hole Splice

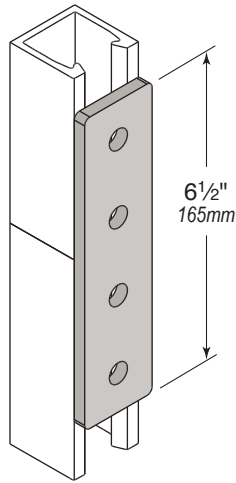


| Part No. | Material                         |
|----------|----------------------------------|
| W5008PF  | Polyester Fire Rated FRP Gray    |
| W5008VF  | Vinyl Ester Fire Rated FRP Beige |

Hole Diameter:  $\frac{7}{16}$ " (11mm); Hole Spacing - From End:  $\frac{13}{16}$ " (21mm); Hole Spacing - On Center:  $1\frac{7}{8}$ " (48mm); Width:  $1\frac{5}{8}$ " (41mm); Thickness:  $\frac{1}{4}$ " (6mm)

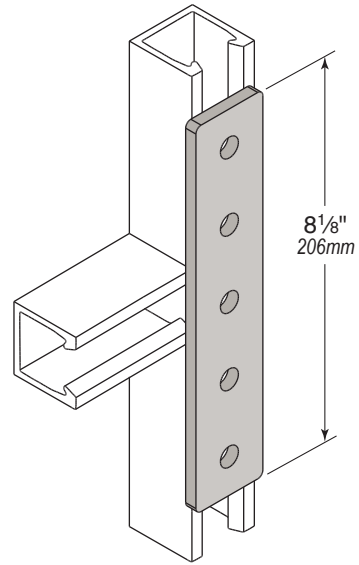


## Four Hole Splice



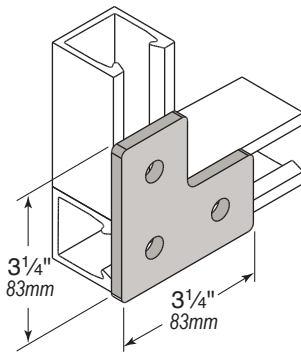
| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5009PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5009VF</a> | Vinyl Ester Fire Rated FRP Beige |

## Five Hole Splice



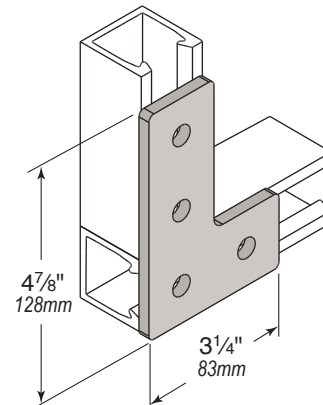
| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5010PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5010VF</a> | Vinyl Ester Fire Rated FRP Beige |

## Three Hole Corner



| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5021PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5021VF</a> | Vinyl Ester Fire Rated FRP Beige |

## Four Hole Corner

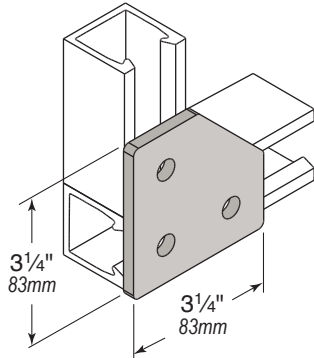


| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5025PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5025VF</a> | Vinyl Ester Fire Rated FRP Beige |

Hole Diameter: 7/16" (11mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)

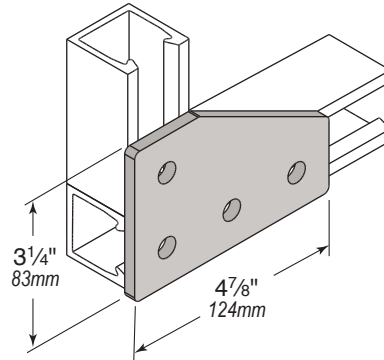


## Three Hole Corner Gusset



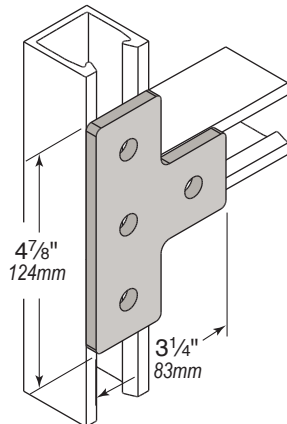
| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5020PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5020VF</a> | Vinyl Ester Fire Rated FRP Beige |

## Four Hole Corner Gusset



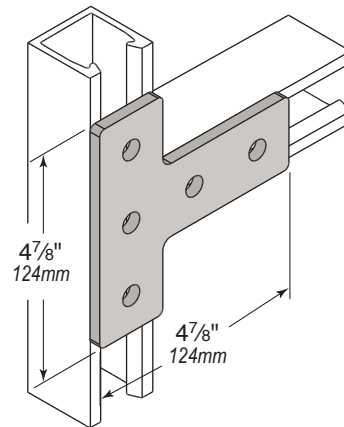
| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5024PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5024VF</a> | Vinyl Ester Fire Rated FRP Beige |

## Four Hole Tee



| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5022PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5022VF</a> | Vinyl Ester Fire Rated FRP Beige |

## Five Hole Tee

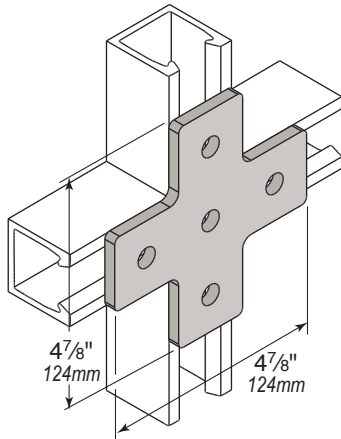


| Part No.                 | Material                         |
|--------------------------|----------------------------------|
| <a href="#">W5022MPF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5022MVF</a> | Vinyl Ester Fire Rated FRP Beige |

Hole Diameter:  $\frac{7}{16}$ " (11mm); Hole Spacing - From End:  $\frac{13}{16}$ " (21mm); Hole Spacing - On Center:  $1\frac{7}{8}$ " (48mm); Width:  $1\frac{5}{8}$ " (41mm); Thickness:  $\frac{1}{4}$ " (6mm)

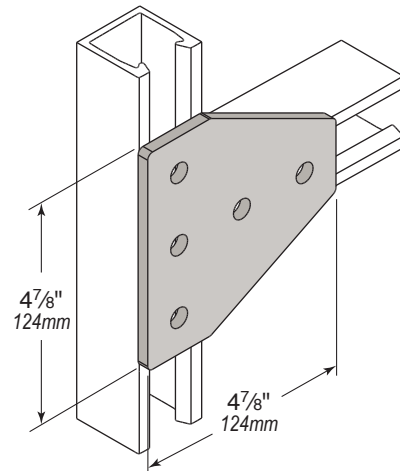


## Five Hole Cross



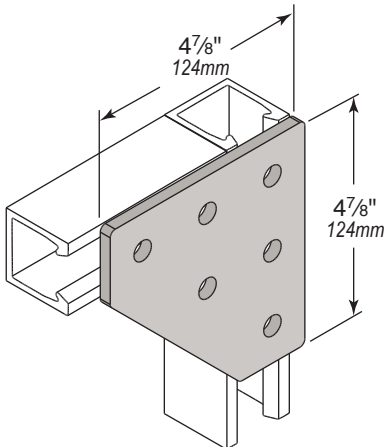
| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5023PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5023VF</a> | Vinyl Ester Fire Rated FRP Beige |

## Five Hole Tee Gusset



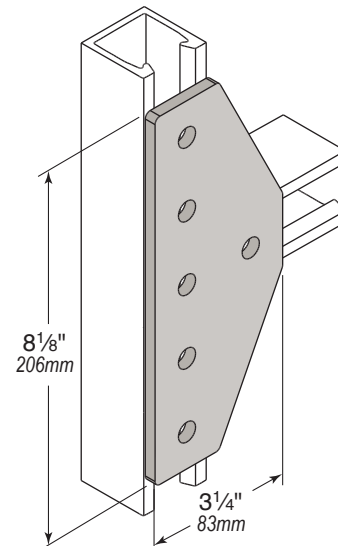
| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5027PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5027VF</a> | Vinyl Ester Fire Rated FRP Beige |

## Five Hole Corner Gusset



| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5028PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5028VF</a> | Vinyl Ester Fire Rated FRP Beige |

## Six Hole Tee Gusset

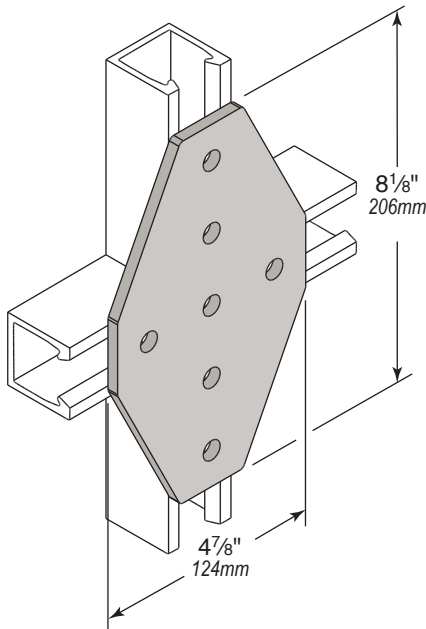


| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5032PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5032VF</a> | Vinyl Ester Fire Rated FRP Beige |

Hole Diameter: 7/16" (11mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" (6mm)

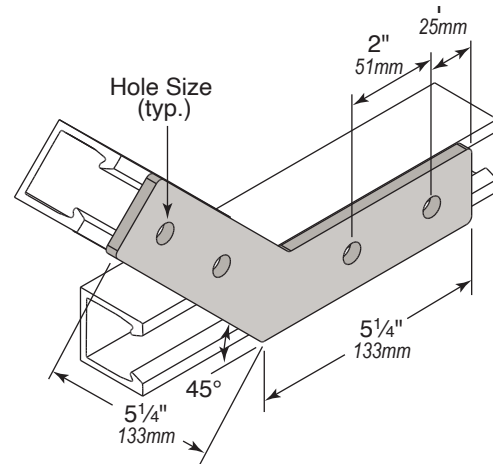


## Seven Hole Cross Gusset



| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5029PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5029VF</a> | Vinyl Ester Fire Rated FRP Beige |

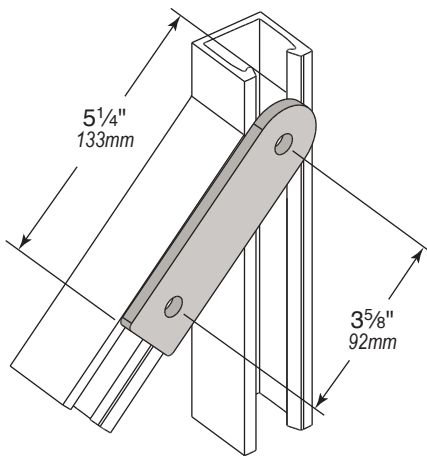
## Four Hole 45° Angle



| Part No.                    | Hole Size *  | Material                         |
|-----------------------------|--------------|----------------------------------|
| <a href="#">W5035PF-375</a> | 7/16" (11mm) | Polyester Fire Rated FRP Gray    |
| <a href="#">W5035VF-375</a> | 7/16" (11mm) | Vinyl Ester Fire Rated FRP Beige |
| <a href="#">W5035PF-500</a> | 9/16" (14mm) | Polyester Fire Rated FRP Gray    |
| <a href="#">W5035VF-500</a> | 9/16" (14mm) | Vinyl Ester Fire Rated FRP Beige |

\* 5/8" and 3/4" Available on request

## Two Hole Swivel Plate



| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5011PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5011VF</a> | Vinyl Ester Fire Rated FRP Beige |

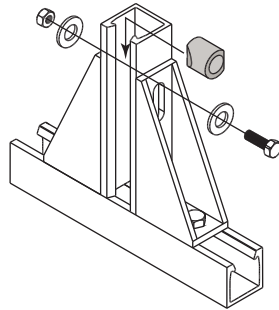
Hole Diameter: 7/16" (11mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



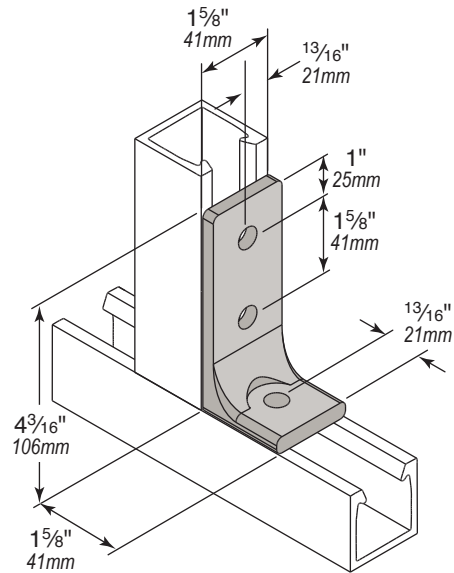


## Angle Fittings

- Industry standard angle fittings for fabricating structures with Wesanco channel
- Fittings can be attached using either SS or PU bolts with Wesanco Channel or Spring Nuts or through bolting to strut back or side walls
- Highly Corrosion Resistant. See Chemical Resistant Chart on pages 296 - 298
- Standard fitting material is either:
  - Polyester (PF) FRP Gray
  - Vinyl Ester (VF) FRP Beige
  - Injection Molded Thermoplastics
  - Polyurethane (PU)
  - Polyester (PE);
- Note: When attaching fittings to side walls of channels, through bolting requires a channel spacer to prevent wall compression under heavy load conditions. Order part # SPA037PVC for  $\frac{3}{8}$ " (10mm) bolts and part # SPA050PVC for  $\frac{1}{2}$ " (13mm) bolts.

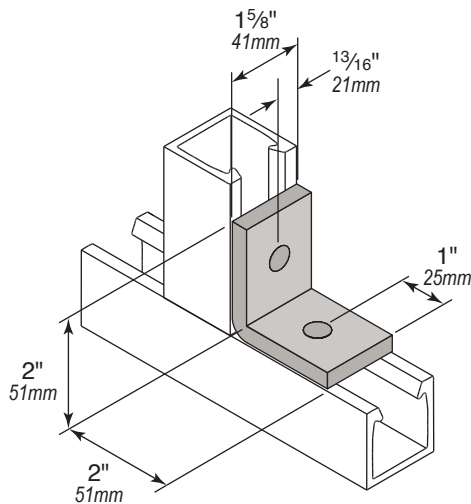


## Three Hole 90° Angle



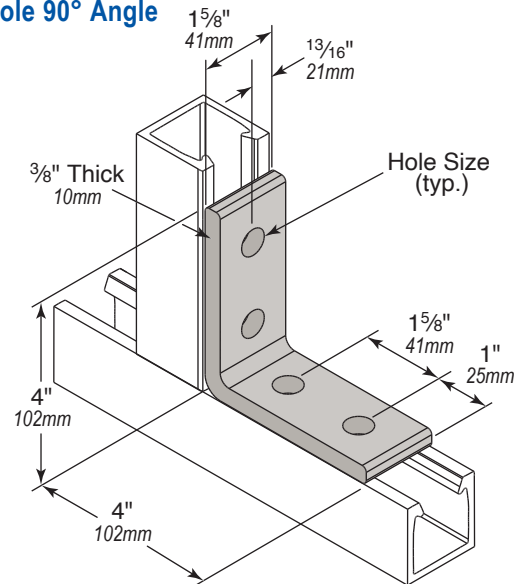
| Part No.       | Material                         |
|----------------|----------------------------------|
| <b>W5113PF</b> | Polyester Fire Rated FRP Gray    |
| <b>W5113VF</b> | Vinyl Ester Fire Rated FRP Beige |

## Two Hole 90° Angle



| Part No.       | Material                         |
|----------------|----------------------------------|
| <b>W5103PF</b> | Polyester Fire Rated FRP Gray    |
| <b>W5103VF</b> | Vinyl Ester Fire Rated FRP Beige |

## Four Hole 90° Angle



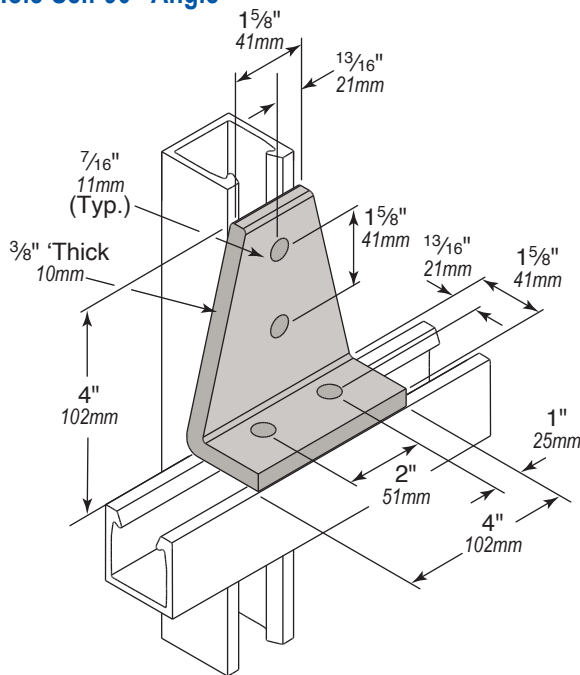
| Part No.        | Hole Size *             | Material                         |
|-----------------|-------------------------|----------------------------------|
| <b>W5125MPF</b> | $\frac{7}{16}$ " (11mm) | Polyester Fire Rated FRP Gray    |
| <b>W5125MVF</b> | $\frac{7}{16}$ " (11mm) | Vinyl Ester Fire Rated FRP Beige |
| <b>W5125PF</b>  | $\frac{9}{16}$ " (14mm) | Polyester Fire Rated FRP Gray    |
| <b>W5125VF</b>  | $\frac{9}{16}$ " (14mm) | Vinyl Ester Fire Rated FRP Beige |

\*  $\frac{5}{8}$ " and  $\frac{3}{4}$ " Available on request

Hole Diameter:  $\frac{7}{16}$ " (11mm); Hole Spacing - From End:  $\frac{13}{16}$ " (21mm); Hole Spacing - On Center:  $1\frac{1}{8}$ " (48mm); Width:  $1\frac{5}{8}$ " (41mm); Thickness:  $\frac{1}{4}$ " (6mm)

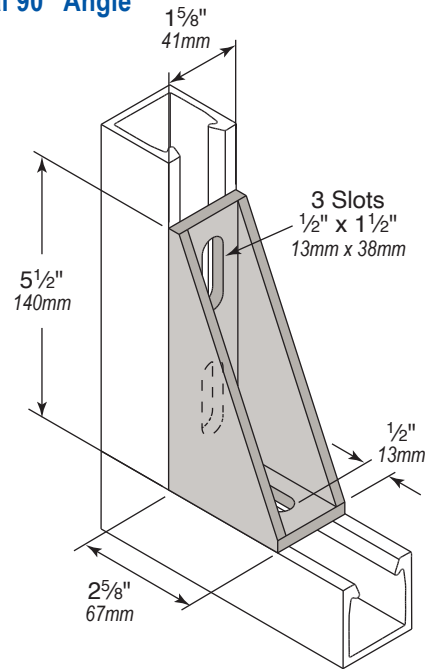


## Four Hole Self 90° Angle



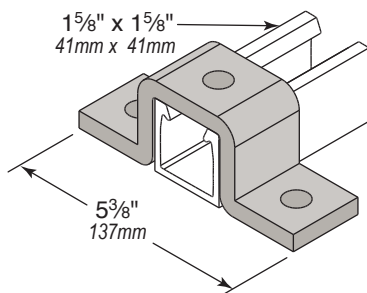
| Part No.                | Material                         |
|-------------------------|----------------------------------|
| <a href="#">W5109PF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W5109VF</a> | Vinyl Ester Fire Rated FRP Beige |

## Universal 90° Angle



| Part No.                | Material                      |
|-------------------------|-------------------------------|
| <a href="#">W5124PF</a> | Polyester Fire Rated FRP Gray |
| <a href="#">W5124PU</a> | Polyurethane Gray (PU)        |

## Three Hole "U" Shape Support



| Part No.                | Material                      |
|-------------------------|-------------------------------|
| <a href="#">W5312PF</a> | Polyester Fire Rated FRP Gray |
| <a href="#">W5312PU</a> | Polyurethane Gray (PU)        |

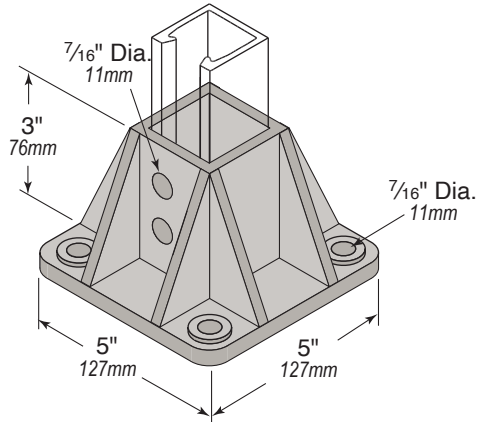
Hole Diameter: 7/16" (11mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



## Post Bases

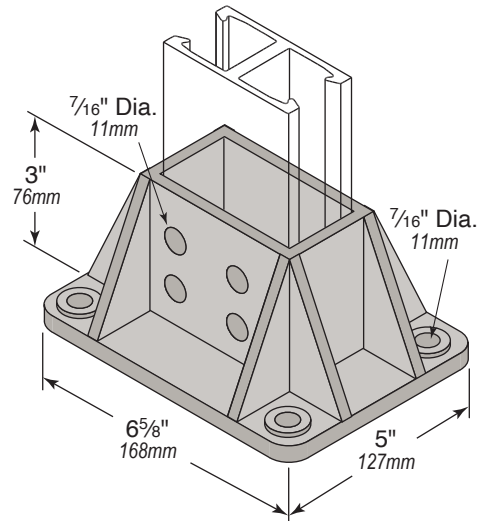
- Wesanco Post Bases can be attached with channel nuts or through bolted to strut back or side walls
- Highly Corrosion Resistant. See Chemical Resistant Guide on pages 296 - 298
- Standard fitting material is either Injection molded Polyester PE (Black) or Polyurethane PU (Gray)

### Single Post Base

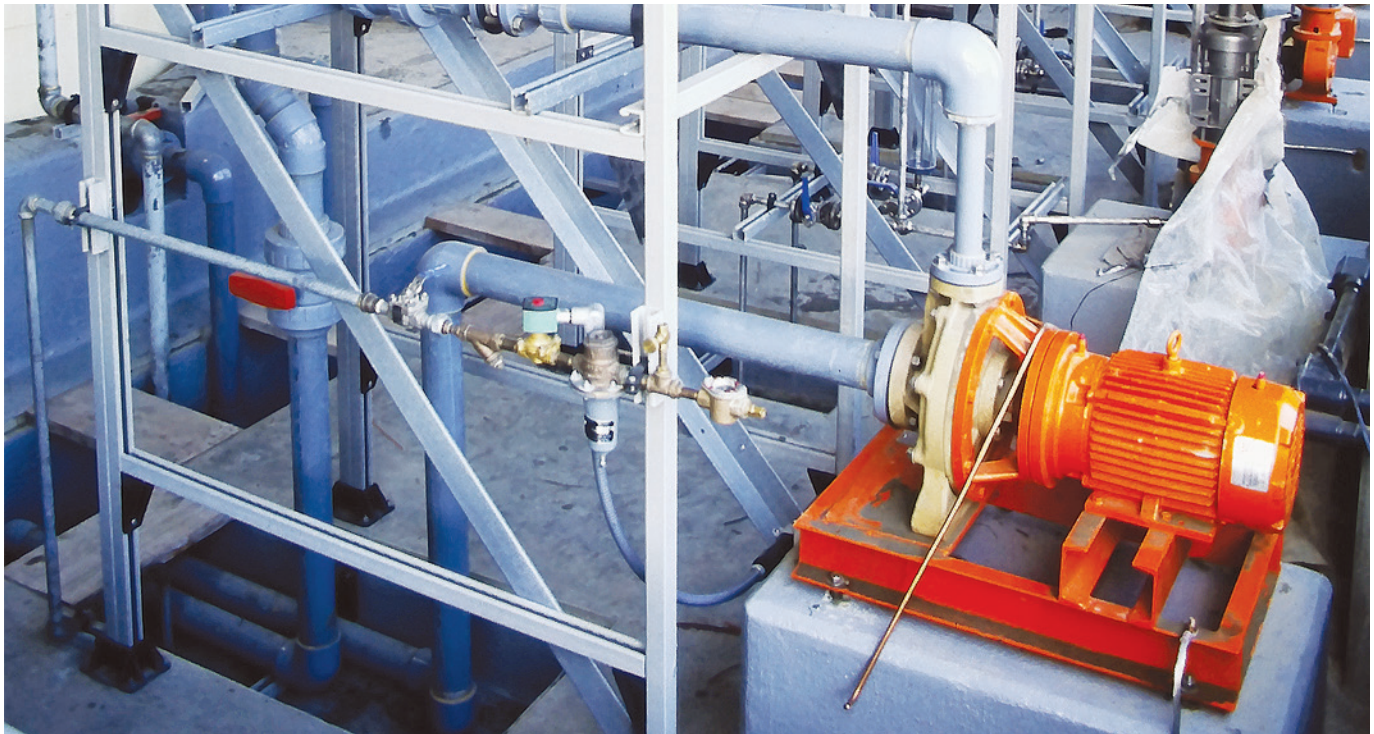


| Part No.  | Material               |
|-----------|------------------------|
| W5814SQPE | Polyester Black (PE)   |
| W5814SQPU | Polyurethane Gray (PU) |

### Double Post Base



| Part No.  | Material               |
|-----------|------------------------|
| W5816SQPE | Polyester Black (PE)   |
| W5816SQPU | Polyurethane Gray (PU) |



Hole Diameter: 7/16" (11mm); Hole Spacing - From End: 1 3/16" (21mm); Hole Spacing - On Center: 1 7/8" (48mm); Width: 1 5/8" (41mm); Thickness: 1/4" (6mm)



## Beam Clips

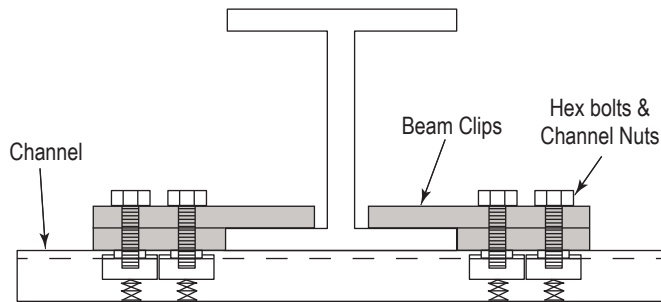
- Wesanco Beam Clips provide a secure method for attaching strut channel and or trapeze configurations to various size beams
- Fastener selection is either 1/2" (13mm) 316 Stainless Steel or 1/2" (13mm) Polyurethane bolt
- Connection to strut channel is by either Channel Nuts
- Beam Clips and Shims are Vinyl Ester Fiberglass

## Beam Clips

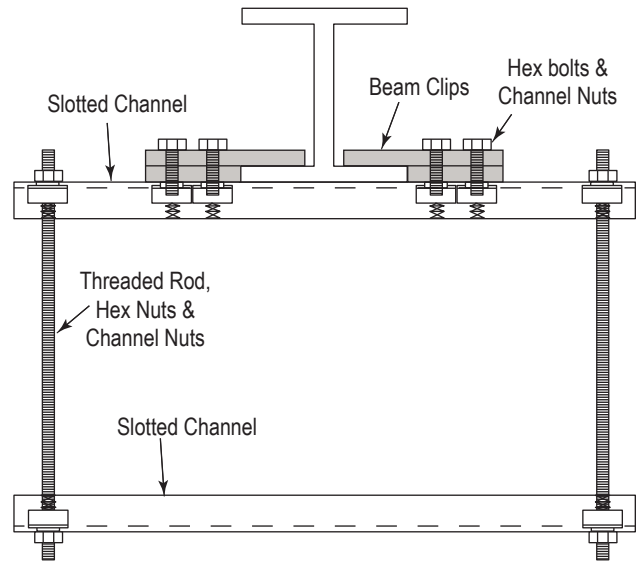
Included in each assembly are:

- 2 ea. 1/2" (13mm) Beam Clips
- 4 ea. bolts, either 1/2" (13mm) Stainless Steel (SS) or 1/2" (13mm) Polyurethane (PU)
- 4 ea. Channel Nuts
- (Also needed but sold separately are 2 ea. Shims per Beam Clip Assembly, dependent on your beam flange thickness).

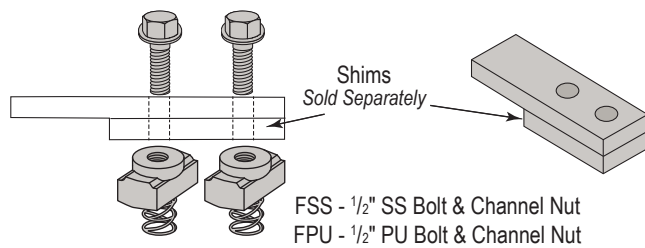
## General Beam Clip Arrangement



## Trapeze Using Beam Clip



## Standard Beam Clip Assembly



| Part No.       | Threaded Rod Coupler Size   | Load Rating    |
|----------------|---|----------------|
| BC500VFSS-CN-2 | 1/2" (13mm) Beam Clip Assembly with 3/8" (10mm) SS Bolt & Channel Nut | 250 lb (1.1kN) |
| BC500VFPU-CN-2 | 1/2" (13mm) Beam Clip Assembly with 1/2" (13mm) PU Bolt & Channel Nut | 250 lb (1.1kN) |
| BC500VFSS-SN-2 | 1/2" (13mm) Beam Clip Assembly with 3/8" (10mm) SS Bolt & Spring Nut  | 250 lb (1.1kN) |
| BC500VFPU-SN-2 | 1/2" (13mm) Beam Clip Assembly with 1/2" (13mm) PU Bolt & Spring Nut  | 250 lb (1.1kN) |
| BCS250VF-2     | 1/4" (6mm) Beam Clip Shim Vinyl Ester (2ea.)                          | —              |
| BCS375VF-2     | 3/8" (10mm) Beam Clip Shim Vinyl Ester (2ea.)                         | —              |
| BCS500VF-2     | 1/2" (13mm) Beam Clip Shim Vinyl Ester (2ea.)                         | —              |

Hole Diameter: 7/16" (11mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



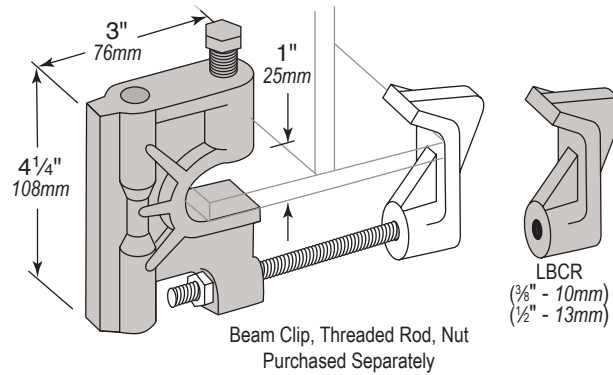
## Beam Clamps

- Wesanco Beam Clamps provide a simple and secure method for attaching strut channel and or trapeze configurations to various size of beams
- Beam Clamps are offered in two sizes, Large or Small
- Beam Clamps come with either  $\frac{3}{8}$ " or  $\frac{1}{2}$ " (10mm or 13mm) thread for threaded rod, sold separately
- Material of construction is Glass Filled Polyurethane

## Beam Clamp Order Information

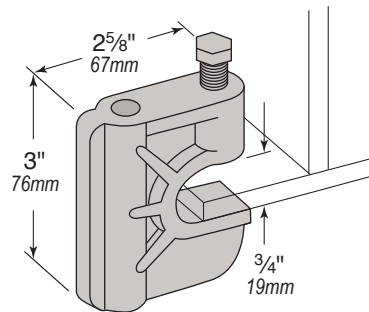
- Included with each Beam Clamp is a SS bolt to secure clamp to beam
- See threaded rod section for your application requirements, sold separately

## Large Beam Clamp



| Part No.   | Description   | Load Rating    |
|------------|---|----------------|
| LBC375PU   | Large Beam Clamp for $\frac{3}{8}$ " -16 Rod                | 600 lb (2.7kN) |
| LBC500PU   | Large Beam Clamp for $\frac{1}{2}$ " -19 Rod                | 600 lb (2.7kN) |
| LBCCR375PU | Large Beam Clamp Retaining Clip for $\frac{3}{8}$ " -16 Rod | —              |
| LBCCR500PU | Large Beam Clamp Retaining Clip for $\frac{1}{2}$ " -19 Rod | —              |

## Small Beam Clamp



| Part No. | Description                                  | Load Rating    |
|----------|--|----------------|
| SBC375PU | Small Beam Clamp for $\frac{3}{8}$ " -16 Rod | 600 lb (2.7kN) |
| SBC500PU | Small Beam Clamp for $\frac{1}{2}$ " -19 Rod | 600 lb (2.7kN) |

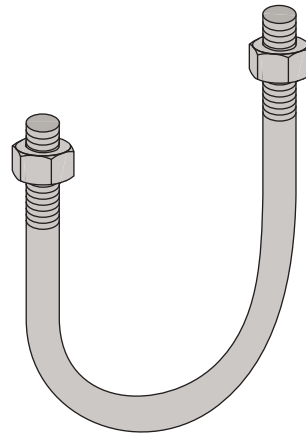
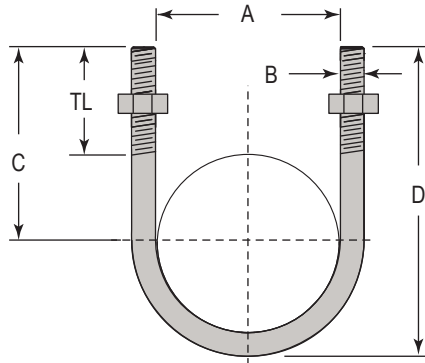
Hole Diameter:  $\frac{7}{16}$ " (11mm); Hole Spacing - From End:  $\frac{13}{16}$ " (21mm); Hole Spacing - On Center:  $1\frac{1}{8}$ " (48mm); Width:  $1\frac{5}{8}$ " (41mm); Thickness:  $\frac{1}{4}$ " (6mm)





## Standard U-Bolts

- Non-Metallic U-Bolts with 2 Hex Nuts included  
Additional nuts and washers can be purchased separately  
See page 14
- Highly Corrosion Resistant: See Chemical Compatibility  
Table on page 296 - 298
- Standard Material is glass-reinforced Polyurethane



| Part No. | Pipe Size   | Pipe OD       | A             | B         | C            | D             | Thread Length | Max. Rec. Torque    |
|----------|-------------|---------------|---------------|-----------|--------------|---------------|---------------|---------------------|
| W6304FG  | ½" (13mm)   | 0.840 (21mm)  | 0.93" (24mm)  | ⅜" (10mm) | 1.56" (40mm) | 2.41" (61mm)  | 1.25" (32mm)  | 20 In/lbs (2.26N/m) |
| W6306FG  | ¾" (19mm)   | 1.050 (27mm)  | 1.12" (28mm)  | ⅜" (10mm) | 1.66" (42mm) | 2.60" (66mm)  | 1.25" (32mm)  | 20 In/lbs (2.26N/m) |
| W6308FG  | 1" (25mm)   | 1.315 (33mm)  | 1.37" (35mm)  | ⅜" (10mm) | 1.78" (45mm) | 2.85" (73mm)  | 1.25" (32mm)  | 20 In/lbs (2.26N/m) |
| W6310FG  | 1-¼" (32mm) | 1.660 (42mm)  | 1.68" (43mm)  | ⅜" (10mm) | 1.94" (49mm) | 3.16" (80mm)  | 1.25" (32mm)  | 20 In/lbs (2.26N/m) |
| W6312FG  | 1-½" (38mm) | 1.900 (48mm)  | 2.00" (51mm)  | ⅜" (10mm) | 2.10" (53mm) | 3.47" (88mm)  | 1.25" (32mm)  | 20 In/lbs (2.26N/m) |
| W6314FG  | 2" (51mm)   | 2.375 (60mm)  | 2.43" (62mm)  | ½" (13mm) | 2.46" (63mm) | 4.18" (106mm) | 1.50" (38mm)  | 40 In/lbs (4.52N/m) |
| W6316FG  | 2-½" (61mm) | 2.875 (70mm)  | 2.93" (74mm)  | ½" (13mm) | 2.71" (69mm) | 4.68" (119mm) | 1.50" (38mm)  | 40 In/lbs (4.52N/m) |
| W6318FG  | 3" (76mm)   | 3.500 (89mm)  | 3.56" (90mm)  | ½" (13mm) | 3.03" (77mm) | 5.31" (135mm) | 1.50" (38mm)  | 40 In/lbs (4.52N/m) |
| W6320FG  | 3-½" (89mm) | 4.500 (114mm) | 4.06" (103mm) | ½" (13mm) | 3.28" (83mm) | 5.81" (148mm) | 1.50" (38mm)  | 40 In/lbs (4.52N/m) |
| W6322FG  | 4" (102mm)  | 5.563 (141mm) | 4.56" (116mm) | ½" (13mm) | 3.53" (90mm) | 6.31" (160mm) | 1.50" (38mm)  | 40 In/lbs (4.52N/m) |

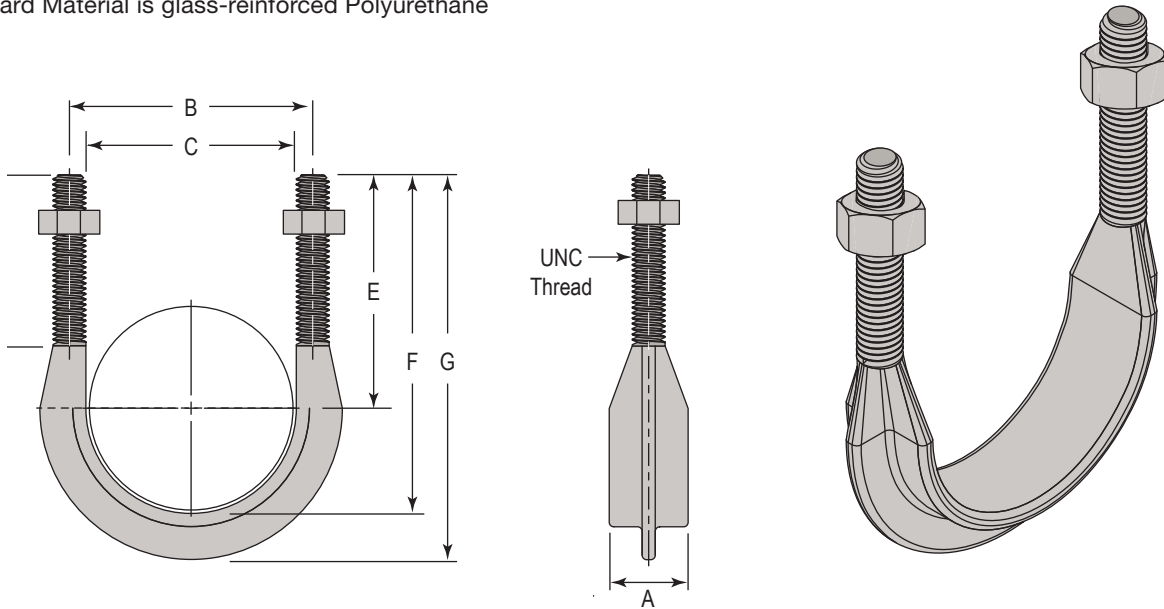
U-bolts should not be torqued above recommended values.

Hole Diameter: ⅞" (11mm); Hole Spacing - From End: ⅜" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝" (41mm); Thickness: ¼" (6mm)



## Extended Reach U-Bolts

- Extended-reach U-bolts provide a larger saddle area and longer threaded area
- Non-Metallic U-Bolts with 2 Hex Nuts included
- Highly Corrosion Resistant: See Chemical Compatibility Table on page 296 - 298
- Standard Material is glass-reinforced Polyurethane



| Part No.  | Nominal Size  | IPS Pipe Size | Bolt Torque         | UNC Thread Size |
|-----------|---------------|---------------|---------------------|-----------------|
| W6308ERFG | 1" (25mm)     | 1.315 (33mm)  | 40 In/lbs (4.52N/m) | 3/8"-16         |
| W6312ERFG | 1-1/2" (38mm) | 1.900 (48mm)  | 40 In/lbs (4.52N/m) | 3/8"-16         |
| W6314ERFG | 2" (51mm)     | 2.375 (60mm)  | 80 In/lbs (9.04N/m) | 1/2"-13         |
| W6318ERFG | 3" (76mm)     | 3.500 (89mm)  | 80 In/lbs (9.04N/m) | 1/2"-13         |
| W6322ERFG | 4" (102mm)    | 4.500 (114mm) | 80 In/lbs (9.04N/m) | 1/2"-13         |
| W6326ERFG | 6" (152mm)    | 6.625 (168mm) | 80 In/lbs (9.04N/m) | 5/8"-11         |

U-bolts should not be torqued above recommended values.

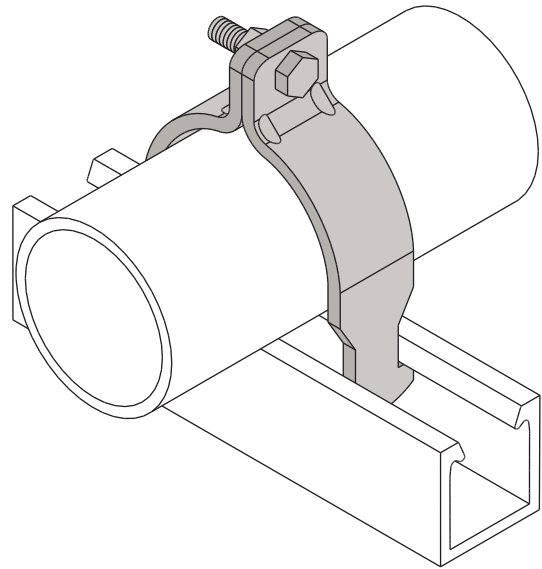
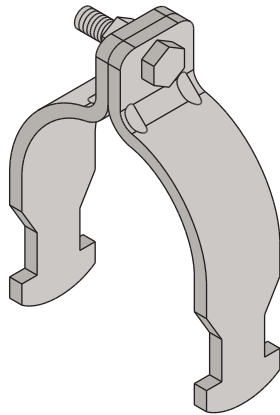
| Part No.  | Nominal Size  | IPS Pipe Size | A            | B               | C              | D             | E               | F               | G               |
|-----------|---------------|---------------|--------------|-----------------|----------------|---------------|-----------------|-----------------|-----------------|
| W6308ERFG | 1" (25mm)     | 1.315 (33mm)  | 9/16" (14mm) | 1-3/4" (45mm)   | 1-3/8" (35mm)  | 1-7/8" (48mm) | 2-5/16" (59mm)  | 3" (76mm)       | 3-3/8" (86mm)   |
| W6312ERFG | 1-1/2" (38mm) | 1.900 (48mm)  | 9/16" (14mm) | 2-3/8" (60mm)   | 2" (51mm)      | 2-1/8" (54mm) | 2-21/32" (68mm) | 3-21/32" (93mm) | 4-1/32" (102mm) |
| W6314ERFG | 2" (51mm)     | 2.375 (60mm)  | 3/4" (19mm)  | 2-15/16" (75mm) | 2-7/16" (62mm) | 2-3/8" (60mm) | 3-5/32" (80mm)  | 4-3/8" (111mm)  | 5" (127mm)      |
| W6318ERFG | 3" (76mm)     | 3.500 (89mm)  | 3/4" (19mm)  | 4-1/8" (105mm)  | 3-5/8" (92mm)  | 2-5/8" (67mm) | 3-11/16" (94mm) | 5-1/2" (140mm)  | 6-1/8" (156mm)  |
| W6322ERFG | 4" (102mm)    | 4.500 (114mm) | 3/4" (19mm)  | 5-1/8" (130mm)  | 4-5/8" (118mm) | 2-5/8" (67mm) | 4-3/16" (106mm) | 6-1/2" (165mm)  | 7-1/8" (181mm)  |
| W6326ERFG | 6" (152mm)    | 6.625 (168mm) | 7/8" (22mm)  | 7-3/8" (187mm)  | 6-3/4" (172mm) | 3-1/4" (83mm) | 5-3/4" (146mm)  | 9-1/8" (232mm)  | 9-7/8" (251mm)  |

Hole Diameter: 7/16" (11mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



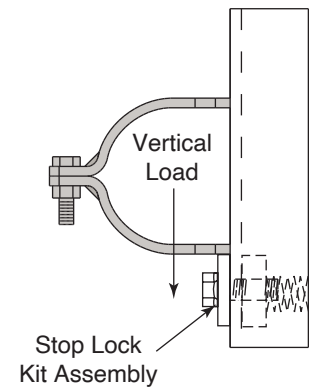
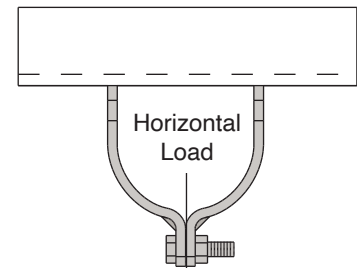
## Rigid Pipe Clamps

- Interchangeable with Industry Standard Channel Framing
- Non-Metallic Clamps with Fasteners included
- Stainless Steel or Non-Metallic Fasteners
- Clamps fit IPS sizes 1/2" to 8" (13mm to 203mm)
- Ease of Installation
- No Special tools required
- Highly Corrosion Resistant: See Chemical Compatibility Table on page 296 - 298, Type PU



| Part No. | Pipe Size     | Pipe OD       | Design Load     |                 |
|----------|---------------|---------------|-----------------|-----------------|
|          |               |               | Horizontal      | Vertical        |
| W6126APU | 1/2" (13mm)   | 0.840 (21mm)  | 160 lb (0.71kN) | 60 lb (0.27kN)  |
| W6128APU | 3/4" (19mm)   | 1.050 (27mm)  | 160 lb (0.71kN) | 70 lb (0.31kN)  |
| W6130APU | 1" (25mm)     | 1.315 (33mm)  | 195 lb (0.87kN) | 90 lb (0.40kN)  |
| W6132APU | 1-1/4" (32mm) | 1.660 (42mm)  | 215 lb (0.96kN) | 115 lb (0.51kN) |
| W6134APU | 1-1/2" (38mm) | 1.900 (48mm)  | 240 lb (1.07kN) | 115 lb (0.51kN) |
| W6138APU | 2" (51mm)     | 2.375 (60mm)  | 250 lb (1.11kN) | 125 lb (0.56kN) |
| W6142APU | 2-1/2" (61mm) | 2.875 (70mm)  | 265 lb (1.18kN) | 125 lb (0.56kN) |
| W6146APU | 3" (76mm)     | 3.500 (89mm)  | 285 lb (1.27kN) | 145 lb (0.65kN) |
| W6154APU | 4" (102mm)    | 4.500 (114mm) | 340 lb (1.51kN) | 150 lb (0.67kN) |
| W6162APU | 5" (127mm)    | 5.563 (141mm) | 365 lb (1.62kN) | 160 lb (0.71kN) |
| W6170APU | 6" (152mm)    | 6.625 (168mm) | 405 lb (1.80kN) | 170 lb (0.76kN) |
| W6174APU | 8" (203mm)    | 8.625 (219mm) | 420 lb (1.87kN) | 185 lb (0.82kN) |

Standard material is Polyurethane (PU) Gray  
 Fasteners are available in Stainless 316. (Add ST to the end of the part number)  
 Design loads are based on minimum ultimate clamp failure safety factor of 3:1  
 Load Ratings based on PU Fasteners. Higher load ratings are typically achieved with SS Fasteners

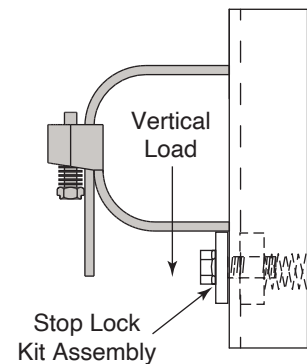
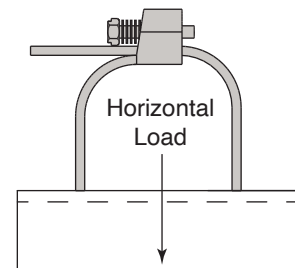
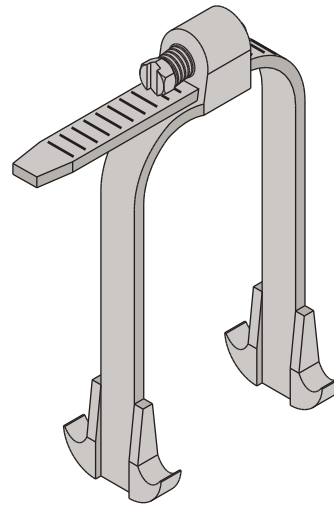
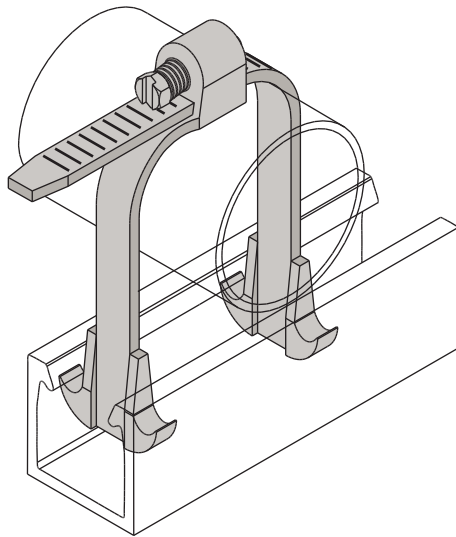


Hole Diameter: 7/16" (11mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



## Adjustable Pipe Clamps

- Interchangeable with Industry Standard Channel Framing
- Non-Metallic
- Adjustable to U.S. and Metric Pipe Diameters
- Clamps fit Pipe Sizes 1/2" to 3-1/2" (13mm to 89mm)
- Larger sizes available for non-load bearing applications
- Simple installation
- No Special Tools Required
- Highly Corrosion Resistant: Type DLR



| Part No. | Pipe Size                        | Pipe OD                         | Design Load     |                 | Maximum Torque |
|----------|----------------------------------|---------------------------------|-----------------|-----------------|----------------|
|          |                                  |                                 | Horizontal      | Vertical        |                |
| APC050PU | 1/2" to 3/4"<br>(13 to 19mm)     | 0.75" to 1.05"<br>(19 to 27mm)  | 135 lb (0.60kN) | 70 lb (0.29kN)  | 15 in-lbs      |
| APC100PU | 1" to 1-1/2"<br>(25 to 38mm)     | 1.05" to 1.90"<br>(27 to 48mm)  | 150 lb (0.67kN) | 125 lb (0.57kN) | 22 in-lbs      |
| APC200PU | 1-1/2" to 2-1/2"<br>(38 to 61mm) | 1.90" to 2.87"<br>(48 to 73mm)  | 150 lb (0.67kN) | 125 lb (0.57kN) | 22 in-lbs      |
| APC300PU | 2-1/2" to 3-1/2"<br>(61 to 89mm) | 2.87" to 4.00"<br>(73 to 102mm) | 150 lb (0.67kN) | 125 lb (0.57kN) | 22 in-lbs      |

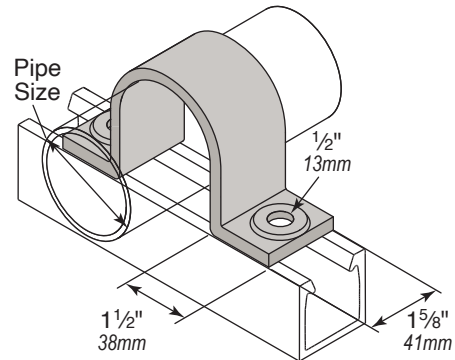
Standard material is Polyurethane (PU) Gray  
 Design loads are based on minimum ultimate clamp failure safety factor of 3:1  
 Note: Standard bag quantity of 25 each

Hole Diameter: 7/16" (11mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" (6mm)



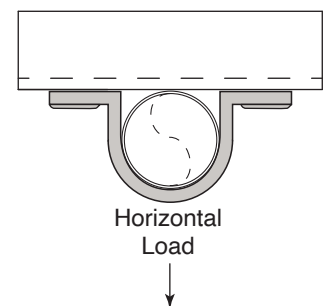
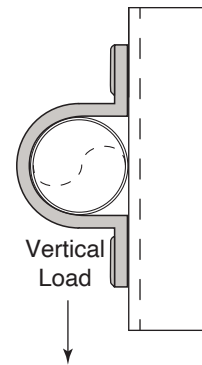
## Two Hole Pipe Straps

- Non-Metallic
- Stainless Steel or Non-Metallic Fasteners
- Straps fit sizes 2" to 6" (51mm to 152mm)
- Mount to Wesanco channel or directly to other surfaces
- Highly Corrosion Resistant: See Chemical Compatibility Table on pages 296 - 298
- Design Loads are stated for Horizontal and Vertical applications
- Higher design loads possible when mounted to solid surface. Consult factory



| Part No. | Pipe Size  | Pipe OD       | Design Load     |                 |
|----------|------------|---------------|-----------------|-----------------|
|          |            |               | Horizontal      | Vertical        |
| W7938PU  | 2" (51mm)  | 2.375 (60mm)  | 175 lb (0.78kN) | 125 lb (0.57kN) |
| W7846PU  | 3" (76mm)  | 3.500 (89mm)  | 200 lb (0.89kN) | 125 lb (0.57kN) |
| W7854PU  | 4" (102mm) | 4.500 (114mm) | 200 lb (0.89kN) | 125 lb (0.57kN) |
| W7870PU  | 6" (152mm) | 6.625 (168mm) | 225 lb (1.00kN) | 125 lb (0.57kN) |

Standard strap material is Polyurethane, Polyester is available (substitute PF for PU in part number)  
 Fasteners are separate order items  
 Design loads are based on minimum ultimate clamp failure safety factor of 3:1  
 Note: Standard bag quantity of 25 each for sizes 2" (51mm) thru 4" (102mm)  
 Note: Call factory for design assistance



Hole Diameter: 7/16" (11mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" (6mm)



Introduction

Channel

Channel Nuts & Hardware

General Fittings

Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

Spring Steel

Concrete Inserts

Rooftop Supports

Fiberglass System

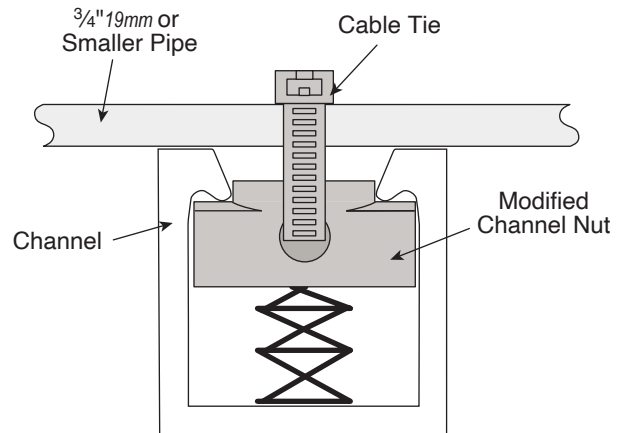
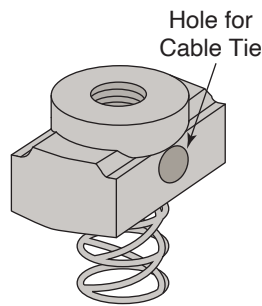
Technical Data



## Adjustable Tubing Clamps

Designed for supporting process and instrumentation tubing under  $\frac{3}{4}$ " (19mm) in diameter. Industry standard cable ties are held in place with modified Wesanco spring nuts.

- Non-Metallic
- Clamps fit tubing under  $\frac{3}{4}$ " (19mm)
- Simple Installation
- No Special Tools Required
- Highly Corrosion Resistant: See Chemical Compatibility Table on pages 296 - 298, Type DLR



| Part No.  | Description                                  | Channel Size   | Design Load     |                 |
|-----------|--|--|-----------------|-----------------|
|           |  |  | Horizontal      | Vertical        |
| ABSN100PU | Attachment Block for Cable Tie               | 1- $\frac{1}{8}$ " (29mm)                                | --              | --              |
| ABSN200PU | Attachment Block for Cable Tie               | 1- $\frac{5}{8}$ " (41mm)                                | --              | --              |
| CT084PP50 | Polypropylene Cable Tie<br>8.5" (216mm) Long | 1- $\frac{1}{8}$ " (29mm) &<br>1- $\frac{5}{8}$ " (41mm) | 20 lb (0.089kN) | 10 lb (0.045kN) |

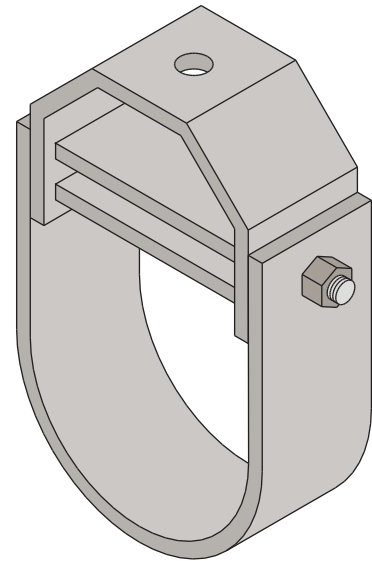
Note: Standard bag quantity of 25 each

Hole Diameter:  $\frac{7}{16}$ " (11mm); Hole Spacing - From End:  $\frac{13}{16}$ " (21mm); Hole Spacing - On Center: 1- $\frac{7}{8}$ " (48mm); Width: 1- $\frac{5}{8}$ " (41mm); Thickness:  $\frac{1}{4}$ " (6mm)



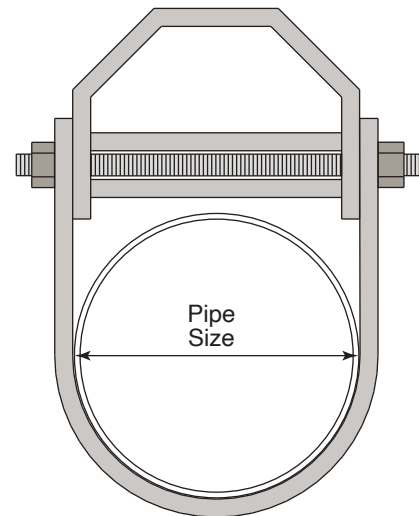
## Clevis Hanger

- Sizes 1" to 4" (25mm to 102mm) Injection molded Polyester PE (Black) Special Order or Polyurethane PU (Gray) Stocked
- Size 6" (152mm) Injection molded Polyurethane PU (Gray). Profile is different that 1" thru 4"
- See Chemical Resistant Chart for material selection on pages 296 - 298
- No special tools required



| Part No.                 |                        | Pipe Size                    | Hanger OD     | Hanger Rod Diameter | Design Load Uniform |
|--------------------------|------------------------|------------------------------|---------------|---------------------|---------------------|
| Polyester FRP Black (PE) | Polyurethane Gray (PU) |                              |               |                     |                     |
| SCH100PE                 | SCH100PU               | 1/2" (13mm) to 1" (25mm)     | 1-1/2" (38mm) | 3/8" (10mm)         | 225 lb (1.0kN)      |
| SCH200PE                 | SCH200PU               | 1-1/4" (32mm) to 2" (51mm)   | 2-1/2" (61mm) | 1/2" (13mm)         | 280 lb (1.2kN)      |
| SCH300PE                 | SCH300PU               | 2-1/2" (61mm) to 3" (76mm)   | 3-7/8" (98mm) | 1/2" (13mm)         | 550 lb (2.5kN)      |
| SCH400PE                 | SCH400PU               | 3-1/2" (89mm) to 4" (102mm)  | 5" (127mm)    | 1/2" (13mm)         | 650 lb (2.9kN)      |
| SCH600PE                 | SCH600PU               | 4-1/2" (114mm) to 6" (152mm) | 7" (178mm)    | 1/2" (13mm)         | 1,000 lb (4.5kN)    |

Design loads stated with a 3:1 safety factor.



Hole Diameter: 7/16" (11mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



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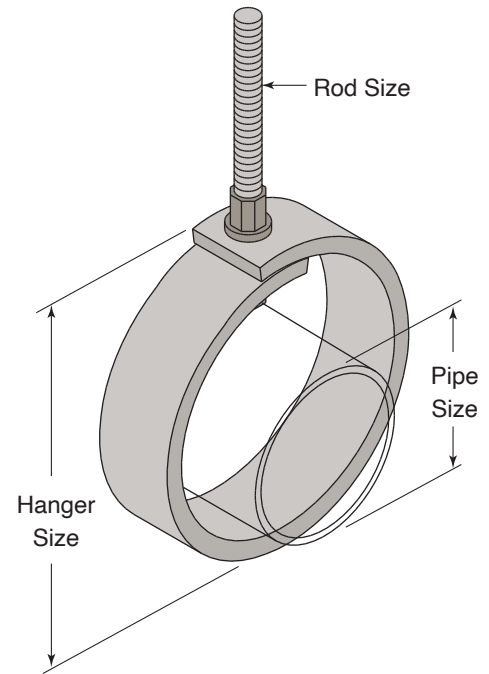
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## SuperHanger™

SuperHanger™ pipe hangers are comprised of all nonmetallic, corrosion resistant materials and maintenance free properties. SuperHanger™ is available for sizes 1" to 10" (25mm to 254mm) pipe size.

The patented SuperHanger™ pipe hanger design allows for ease of installation on both new and used pipe, structural strength for pipe loadings and sizes to support various pipe diameters. They come in multiple sizes and are ready for immediate availability.



| Part No. | Pipe Size  | Hanger Size | Threaded Rod Size      | Design Load Lbs (kN) |
|----------|------------|-------------|------------------------|----------------------|
| SH001    | ¾" - 1"    | 3" (76mm)   | ⅜" (10mm)              | 100 Lbs (0.45kN)     |
| SH002    | 1-¼" to 2" | 4" (102mm)  | ⅜" (10mm)              | 450 Lbs (2.00kN)     |
| SH003    | 2-½" - 3"  | 5" (127mm)  | ⅜" (10mm)              | 450 Lbs (2.00kN)     |
| SH004    | 4"         | 6" (152mm)  | ⅜" (10mm) or ½" (13mm) | 450 Lbs (2.00kN)     |
| SH006    | 6"         | 10" (254mm) | ½" (13mm)              | 650 Lbs (2.89kN)     |
| SH008    | 8"         | 12" (305mm) | ⅝" (16mm)              | 650 Lbs (2.89kN)     |
| SH010    | 10"        | 14" (356mm) | ⅝" (16mm)              | 650 Lbs (2.89kN)     |

Design loads are based on minimum ultimate hanger failure safety ratio factor of 3:1



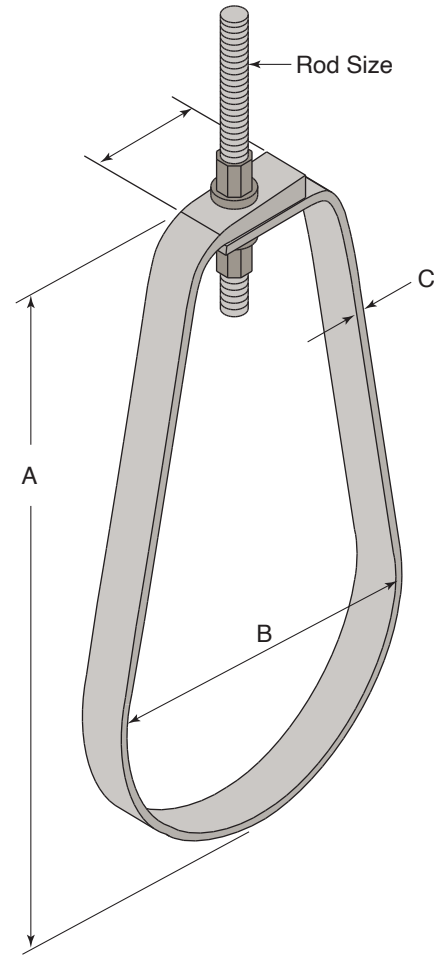
Hole Diameter: ⅞" (11mm); Hole Spacing - From End: 1⅜" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝" (41mm); Thickness: ¼" (6mm)



## SuperLoop™

SuperLoop™ pipe hangers are comprised of all nonmetallic, corrosion resistant materials and maintenance free properties. For larger pipes use Super Loop Hanger. The SuperLoop™ is available for sizes from 3" to 16" (76mm to 406mm) diameter pipes.

The SuperLoop Hanger is great for industrial applications or commercial drainage pipes, where pipes sizes are considerably larger. The biggest advantage of using the Super Loop Hanger is that in any environment the Super Loop performs better than metallic counterparts, because of its rust-free properties.



| Part No. | Pipe Size   | Hanger O.D.     | Hanger Rod Size | A             | B              | C           | D           | Design Load Lbs (kN) |
|----------|-------------|-----------------|-----------------|---------------|----------------|-------------|-------------|----------------------|
| SLH1200  | 12" (305mm) | 13-1/2" (343mm) | 3/4" (19mm)     | 20.5" (521mm) | 13.50" (343mm) | 0.40 (10mm) | 2.76 (70mm) | 1,330 Lbs (5.92kN)   |
| SLH1400  | 14" (356mm) | 14" (356mm)     | 1" (25mm)       | 21.1" (536mm) | 14.02" (356mm) | 0.40 (10mm) | 2.76 (70mm) | 1,500 Lbs (6.67kN)   |
| SLH1600  | 16" (406mm) | 16" (406mm)     | 1" (25mm)       | 24.3" (617mm) | 16.00" (406mm) | 0.40 (10mm) | 2.76 (70mm) | 2,070 Lbs (9.21kN)   |
| SLH1800  | 18" (457mm) | 18" (457mm)     | 1" (25mm)       | 27.0" (686mm) | 18.39" (467mm) | 0.40 (10mm) | 2.76 (70mm) | 2,070 Lbs (9.21kN)   |
| SLH2000  | 20" (508mm) | 20" (508mm)     | 1" (25mm)       | 30.0" (762mm) | 20.00" (508mm) | 0.40 (10mm) | 2.76 (70mm) | 2,070 Lbs (9.21kN)   |
| SLH2400  | 24" (610mm) | 24" (610mm)     | 1" (25mm)       | 36.0" (914mm) | 23.98" (609mm) | 0.40 (10mm) | 2.76 (70mm) | 2,070 Lbs (9.21kN)   |

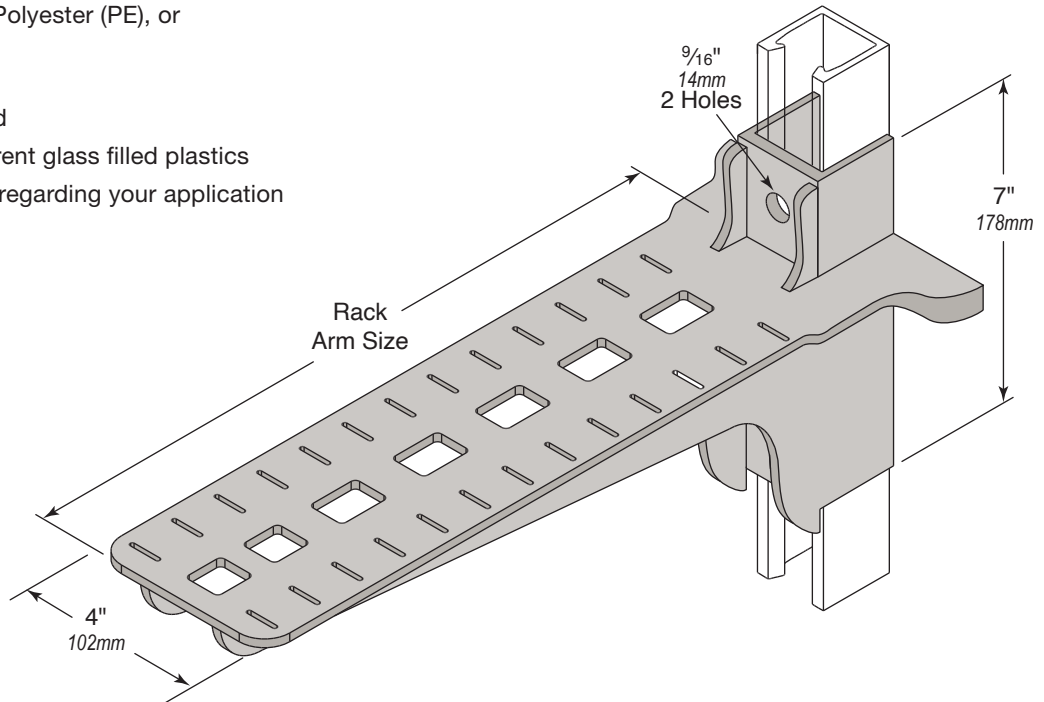
Design loads are based on minimum ultimate hanger failure safety ratio factor of 3:1

Hole Diameter: 7/16" (11mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)



## Rack Arms

- Cables, tubing, conduit or piping can be attached to rack arm using Wesanco adjustable or rigid clamps, or Tie-Wraps
- Rack arms can be attached to Wesanco channel with 1/2" (13mm) spring nut P/N W2-8FG or 1/2" (13mm) channel nut P/N W2-8WSPU
- All Non-Metallic - Non-Conductive & Corrosion Resistant
- Available in Nylon (NY), Polyester (PE), or Polyurethane (PU)
- Ease of Installation
- No Special tools required
- Available in several different glass filled plastics
- Consult with the factory regarding your application



| Part No.               |                               | Rack Arm Size | Design Load Concentrated | Design Load Uniform |
|------------------------|-------------------------------|---------------|--------------------------|---------------------|
| Polyurethane Gray (PU) | Glass Filled Nylon Black (NY) |               |                          |                     |
| RA1400PU               | RA1400NY                      | 14" (356mm)   | 600 lb (2.7kN)           | 600 lb (2.7kN)      |
| RA2000PU               | RA2000NY                      | 20" (508mm)   | 600 lb (2.7kN)           | 600 lb (2.7kN)      |

Uniform Load applied over full length of arm  
 Concentrated Load applied 8" (203mm) from bolted surface  
 Factor of Safety: 3:1

Hole Diameter: 7/16" (11mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8" (41mm); Thickness: 1/4" (6mm)

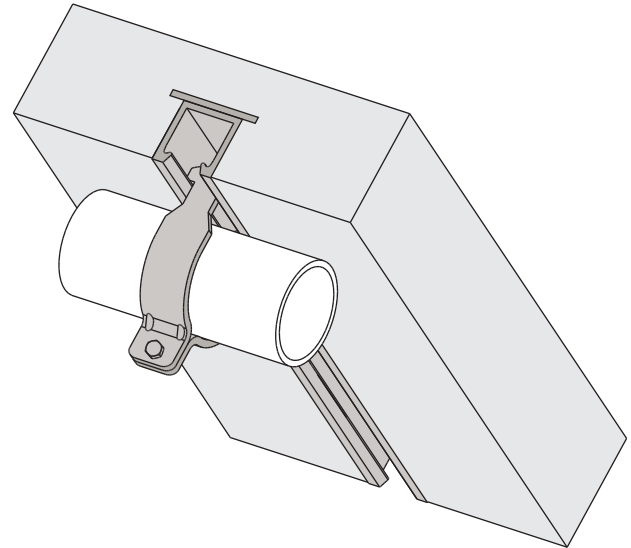




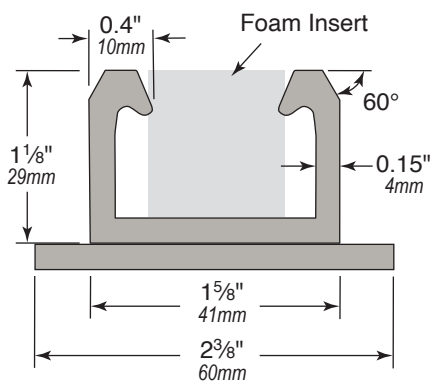
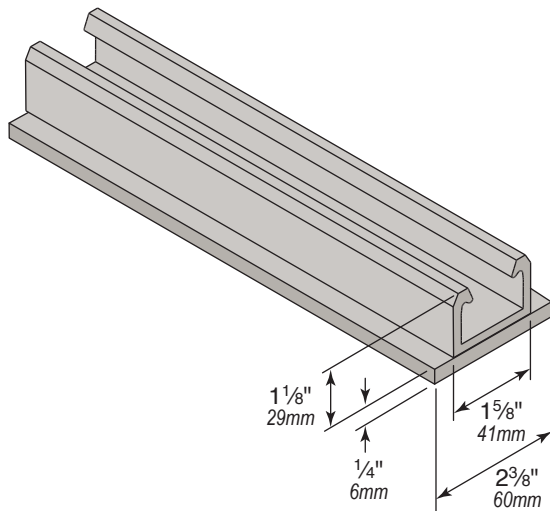
Standard: Polyester (PF) or Vinyl Ester (VF)

## Concrete Inserts

In certain applications, it is necessary to embed a corrosion resistant channel into a new pouring of concrete. For these applications, concrete insert channel is recommended. Channel is available in two material types; polyester and vinyl ester. The concrete insert is available in either 1-1/8" or 1-5/8" channel profiles. Mounting the insert flush with the concrete surface is a convenient way to secure piping, conduits or electrical enclosures. Insert is shipped ready for installation with factory installed Cello-Foam filler strip.

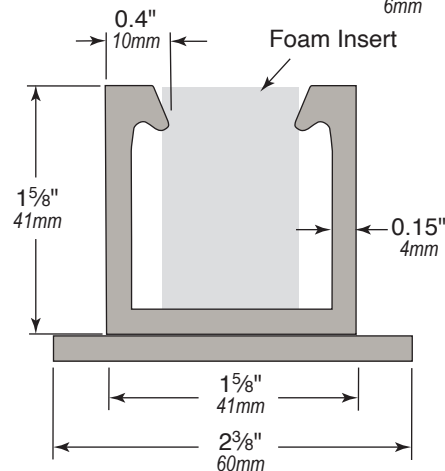
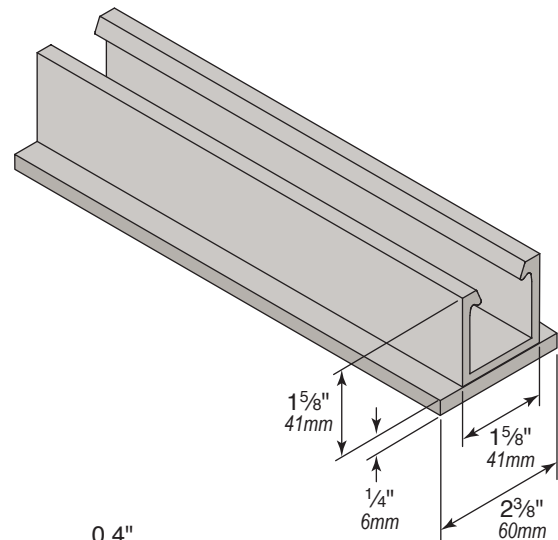


### 1-1/8" x 1-1/8" Concrete Insert



| Part No.                 | Material                         |
|--------------------------|----------------------------------|
| <a href="#">W7565EPF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W7565EVF</a> | Vinyl Ester Fire Rated FRP Beige |

### 1-5/8" x 1-5/8" Concrete Insert



| Part No.                 | Material                         |
|--------------------------|----------------------------------|
| <a href="#">W7265EPF</a> | Polyester Fire Rated FRP Gray    |
| <a href="#">W7265EVF</a> | Vinyl Ester Fire Rated FRP Beige |



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Use the following guide to determine which material in the Wesanco system provides the best performance for your application.

| Chemical                                       | Polyester Fire Rated Fiberglass (PF) |              | Vinyl Ester Fire Rated Fiberglass (VF) |              | Polyurethane (PU) |              |
|--|--------------------------------------|--------------|--|--------------|-------------------|--------------|
|  | 70°F (21°C)                          | 160°F (71°C) | 70°F (21°C)                            | 160°F (71°C) | 70°F (21°C)       | 160°F (71°C) |
| Acetic Acid, Up to 10%                         | R                                    | R            | R                                      | R            | R                 | -            |
| Acetic Acid, Up to 50%                         | R                                    | R            | R                                      | R            | R                 | -            |
| Acetone, Up to 10%                             | NR                                   | NR           | NR                                     | NR           | R                 | -            |
| Aluminum Hydroxide                             | R                                    | R            | R                                      | R            | R                 | -            |
| Ammonia Gas (dry)                              | NR                                   | NR           | R                                      | 100          | R                 | -            |
| Ammonium Hydroxide (Aqueous Ammonia), Up to 5% | NR                                   | NR           | R                                      | R            | R                 | -            |
| Ammonium Hydroxide, Up to 10%                  | NR                                   | NR           | R                                      | 150°         | R                 | -            |
| Ammonium Hydroxide, Up to 20%                  | NR                                   | NR           | R                                      | 150°         | R                 | -            |
| Ammonium Nitrate                               | R                                    | R            | R                                      | R            | R                 | -            |
| Ammonium Phosphate                             | R                                    | R            | R                                      | R            | R                 | -            |
| Ammonium Sulfide, saturated                    | NR                                   | NR           | R                                      | 120°         | R                 | -            |
| Aqua Regia, fumes                              | NR                                   | NR           | R                                      | 150°         | NR                | -            |
| Barium Hydroxide 10%                           | NR                                   | NR           | R                                      | 120°         | R                 | -            |
| Benzene  | NR                                   | NR           | NR                                     | NR           | R                 | R            |
| Benzoic Acid                                   | R                                    | R            | R                                      | R            | R                 | -            |
| Bromine, wet gas                               | NR                                   | NR           | R                                      | 100°         | -                 | -            |
| Butylene Glycol, Up to 100%                    | R                                    | R            | R                                      | R            | R                 | -            |
| Butyric Acid, Up to 50%                        | R                                    | R            | R                                      | R            | R                 | -            |
| Calcium Hydroxide                              | R                                    | NR           | R                                      | R            | R                 | -            |
| Chlorine, Dry Gas                              | NR                                   | NR           | R                                      | R            | R                 | -            |
| Chlorine, Wet Gas                              | NR                                   | NR           | R                                      | R            | -                 | -            |
| Chlorine, Liquid                               | NR                                   | NR           | NR                                     | NR           | -                 | -            |
| Chlorine, Water                                | R                                    | R            | R                                      | R            | R                 | -            |
| Chromic Acid, Up to 5%                         | NR                                   | NR           | R                                      | R            | -                 | -            |
| Chromic Acid, Up to 20%                        | NR                                   | NR           | R                                      | R            | -                 | -            |
| Citric Acid                                    | R                                    | R            | R                                      | R            | R                 | -            |
| Copper Chloride                                | R                                    | R            | R                                      | R            | R                 | -            |
| Copper Cyanide                                 | R                                    | NR           | R                                      | R            | R                 | -            |
| Copper Fluoride                                | R                                    | NR           | R                                      | R            | R                 | -            |
| Copper Nitrate                                 | R                                    | R            | R                                      | R            | R                 | -            |
| Copper Sulfate                                 | R                                    | R            | R                                      | R            | R                 | -            |
| Dechlorinated Brine Storage                    | -                                    | -            | R                                      | R            | R                 | -            |
| Esters, Fatty Acid                             | R                                    | R            | R                                      | R            | R                 | -            |
| Fatty Acids                                    | R                                    | R            | R                                      | R            | R                 | -            |
| Ferric Chloride                                | R                                    | R            | R                                      | R            | R                 | -            |
| Ferric Nitrate                                 | R                                    | R            | R                                      | R            | R                 | -            |
| Ferrous Chloride                               | R                                    | R            | R                                      | R            | R                 | -            |



# Chemical Resistance Chart



| Chemical                             | Polyester Fire Rated Fiberglass (PF) |              | Vinyl Ester Fire Rated Fiberglass (VF) |              | Polyurethane (PU) |              |
|--------------------------------------|--------------------------------------|--------------|--|--------------|-------------------|--------------|
|                                      | 70°F (21°C)                          | 160°F (71°C) | 70°F (21°C)                            | 160°F (71°C) | 70°F (21°C)       | 160°F (71°C) |
| Fluoboric Acid                       | R                                    | 120°         | R                                      | R            | -                 | -            |
| Fluosilicic Acid, Up to 10%          | NR                                   | NR           | R                                      | R            | -                 | -            |
| Fluosilicic Acid, Up to 32%          | NR                                   | NR           | R                                      | 100°         | -                 | -            |
| Formic Acid, Up to 10%               | NR                                   | NR           | R                                      | R            | R                 | -            |
| Formic Acid, Up to 50%               | NR                                   | NR           | R                                      | 100°         | R                 | -            |
| Gasoline, Aviation                   | R                                    | NR           | R                                      | R            | R                 | -            |
| Green Liquor, Pulp Mill              | -                                    | -            | R                                      | R            | -                 | -            |
| Hydrochloric Acid, Up to 15%         | R                                    | NR           | R                                      | R            | R                 | -            |
| Hydrochloric Acid, Up to 37%         | R                                    | NR           | R                                      | R            | R                 | -            |
| Hydrofluoric Acid, Up to 10%         | NR                                   | NR           | R                                      | 150°         | -                 | -            |
| Hydrofluoric Acid, Up to 20%         | NR                                   | NR           | R                                      | 100°         | -                 | -            |
| Hydrogen Chloride Wet Gas            | R                                    | NR           | R                                      | R            | NR                | -            |
| Hydrogen Peroxide 50%                | NR                                   | NR           | R                                      | R            | R                 | -            |
| Hydrogen Sulfide Wet Gas             | R                                    | NR           | R                                      | R            | R                 | -            |
| Lactic Acid                          | R                                    | NR           | R                                      | R            | R                 | -            |
| Lead Nitrate                         | -                                    | -            | R                                      | R            | R                 | -            |
| Magnesium Hydroxide                  | NR                                   | NR           | R                                      | R            | R                 | -            |
| Mercurous Chloride                   | R                                    | NR           | R                                      | R            | -                 | -            |
| Methyl Ethyl Ketone                  | NR                                   | NR           | NR                                     | NR           | NR                | -            |
| Methylene Chloride                   | NR                                   | NR           | NR                                     | NR           | NR                | -            |
| Nickel Sulfate, Low PH               | NR                                   | NR           | R                                      | R            | R                 | -            |
| Nitric Acid, Up to 5%                | NR                                   | NR           | R                                      | 150°         | R                 | -            |
| Nitric Acid, Up to 35%               | NR                                   | NR           | R                                      | 120°         | R                 | -            |
| Nitric Acid, Vapor                   | NR                                   | NR           | R                                      | R            | -                 | -            |
| Perchloric Acid, Up to 10%           | NR                                   | NR           | R                                      | 150°         | -                 | -            |
| Pickling Acid, 3-5% H2SO4            | R                                    | R            | R                                      | R            | R                 | -            |
| Phosphoric Acid, (115%, P20%)        | NR                                   | NR           | R                                      | R            | -                 | -            |
| Phosphoric Acid, Vapor or Condensate | NR                                   | NR           | R                                      | R            | -                 | -            |
| Potassium Chloride                   | R                                    | R            | R                                      | R            | R                 | -            |
| Potassium Nitrate                    | R                                    | R            | R                                      | R            | R                 | -            |
| Potassium Persulfate                 | NR                                   | NR           | R                                      | R            | R                 | -            |
| Sea Water                            | R                                    | R            | R                                      | R            | R                 | -            |
| Silver Cyanide, Up to 5%             | NR                                   | NR           | R                                      | R            | R                 | -            |
| Sodium Chloride                      | R                                    | R            | R                                      | R            | -                 | -            |
| Sodium Hydroxide, Up to 25%          | NR                                   | NR           | R                                      | 150°         | R                 | -            |
| Sodium Hydroxide, Up to 50%          | NR                                   | NR           | R                                      | 180°         | -                 | -            |
| Sodium Hypochlorite, Up to 15%       | NR                                   | NR           | R                                      | 150°         | R                 | -            |
| Sodium Nitrate                       | R                                    | R            | R                                      | R            | R                 | -            |
| Sodium Sulfate                       | R                                    | NR           | R                                      | R            | R                 | -            |

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| Chemical                 | Polyester Fire Rated<br>Fiberglass (PF) |              | Vinyl Ester Fire Rated<br>Fiberglass (VF) |              | Polyurethane (PU) |              |
|--------------------------|---|--------------|---|--------------|-------------------|--------------|
|                          | 70°F (21°C)                             | 160°F (71°C) | 70°F (21°C)                               | 160°F (71°C) | 70°F (21°C)       | 160°F (71°C) |
| Sodium Sulfide           | NR                                      | NR           | R   | R            | R                 | –            |
| Sulfuric Acid, Up to 25% | R                                       | R            | R   | R            | R                 | –            |
| Sulfuric Acid, Up to 50% | NR                                      | NR           | R   | R            | R                 | –            |
| Sulfuric Acid, Up to 70% | NR                                      | NR           | R   | R            | R                 | –            |
| Sulfuric Acid, Up to 75% | NR                                      | NR           | R   | 120°         | –                 | –            |
| Sulfuric Acid, Up to 80% | NR                                      | NR           | NR  | NR           | NR                | –            |
| Sulfuric Acid, Vapor     | R                                       | NR           | R   | R            | R                 | –            |
| Tannic Acid              | R                                       | NR           | R   | R            | R                 | –            |
| Trichlorethylene, Fumes  | NR                                      | 120°         | R   | R            | R                 | –            |
| Trisodium Phosphate      | R                                       | NR           | R   | R            | R                 | –            |
| Urea                     | R                                       | NR           | R   | 150°         | R                 | –            |
| Vegetable Oils           | R                                       | R            | R   | R            | R                 | –            |
| Vinegar                  | R                                       | R            | R   | R            | R                 | –            |
| Water, Deionized         | R                                       | R            | R   | R            | R                 | –            |
| White Liquor, Pulp Mill  | –                                       | –            | R   | R            | –                 | –            |
| Zinc Chloride            | R                                       | R            | R   | R            | –                 | –            |

**Note:**

The recommendations contained in this guide are made without representation as to results. Since the actual use by others is beyond our control, no guarantee expressed or implied, is made by Wesanco, as to the effects of such use or the results to be obtained nor does Wesanco assume any liability arising out of the use by others of the products referenced in this guide. Nor is this information herein to be construed as absolutely complete since additional information may be needed or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. We suggest that you evaluate these recommendations and suggestions in your own laboratory prior to use. Our responsibility for claims arising from breach of warranty, negligence, or otherwise is limited to the purchase price of the material.



# Technical Data

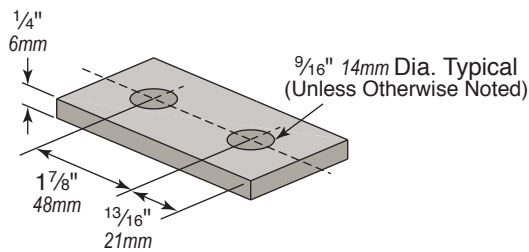
## Material Specifications

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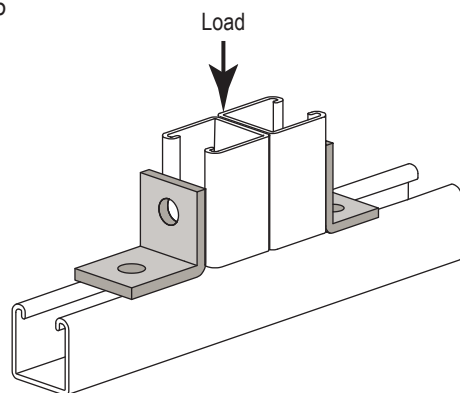
## Design & Dimensional Information

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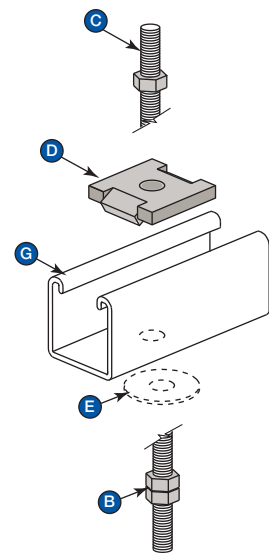
## Channel Engineering Data Crush Load for Channel

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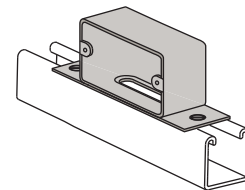
## Safe Thru-Bolting and Trapeze Information

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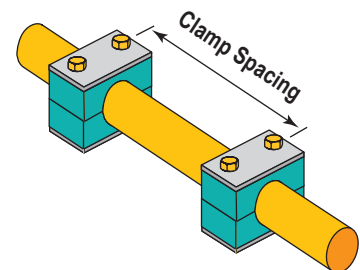
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## Beta Clamp Technical Data

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## Conversion Tables

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## Florida Strut to Wesanco Cross References

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### Stainless Steel Channel

Channel is available as roll formed sections in stainless steel, conforming to ASTM A 240 Type 304 (**S4**), or ASTM A 240 Type 316 (**S6**). Consult factory for sizes and availability.

To order, see page 23 for material codes to use for channel designation.

Examples: W500**S4**, W200**S6**.

### Stainless Steel Nuts (Channel Type)

Channel Nuts are available in Type 316 Stainless Steel. Consult factory for sizes and availability.

- Sintered 316 - "Domestic Nut" ASTM: B783

- Bar Stock 316 - "Import Nut" ASTM: A240

To order add "S6" to nut designation. Example: W2-8S6

### Stainless Steel Engineering Data

The properties of section for stainless steel channels are the same as shown starting on page 38 of this catalog for mild steel channel. Load ratings for stainless steel channel meet or exceed corresponding mild steel ratings published throughout this catalog.

### Stainless Steel, Aluminum, and Copper Plated Pipe Clamps

Pipe Clamps are available from stock in Stainless Steel Types 304 (S4) and 316 (S6) and by special order in Aluminum and Copper Plated. Consult factory for details.

### Aluminum Channel

Channel is available as extruded aluminum sections type 6063T6, conforming to ASTM B221. Consult factory for sizes and availability.

To order add "AL" to channel designation.

Example: W200**AL**.

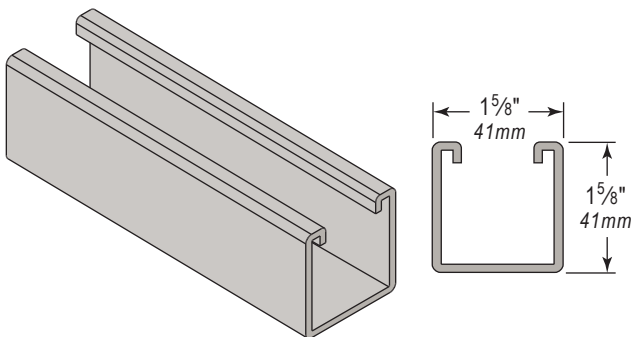
### Aluminum Nuts (Channel Type)

Available by special order. Consult factory for details. ASTM B221.

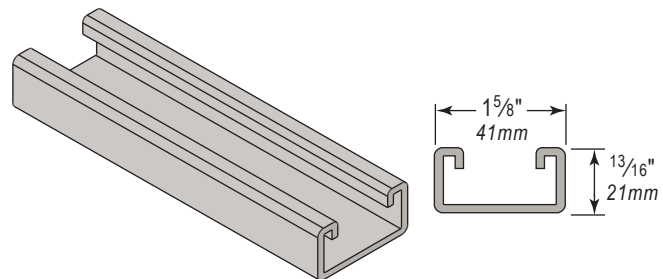
### Aluminum Engineering Data

To determine the appropriate beam load capacity for extruded Aluminum Channel Sections, refer to Channel Engineering Data, W200AL see pages 38 thru 41, W500AL see pages 50 thru 54 in this catalog and multiply published values by 40%. To determine the approximate pull out slip load of Channel Nuts in extruded Aluminum Channel sections, refer to page 70 in this catalog and multiply the resistance to slip value by 75% and the resistance to pull out value by 50%.

Aluminum Channel - W500AL - 1<sup>5</sup>/<sub>8</sub>" x 1<sup>5</sup>/<sub>8</sub>" (41 x 41mm)



Aluminum Channel - W200AL - 1<sup>5</sup>/<sub>8</sub>" x 1<sup>3</sup>/<sub>16</sub>" (41 x 21mm)

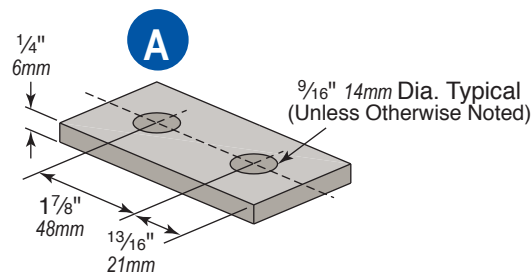


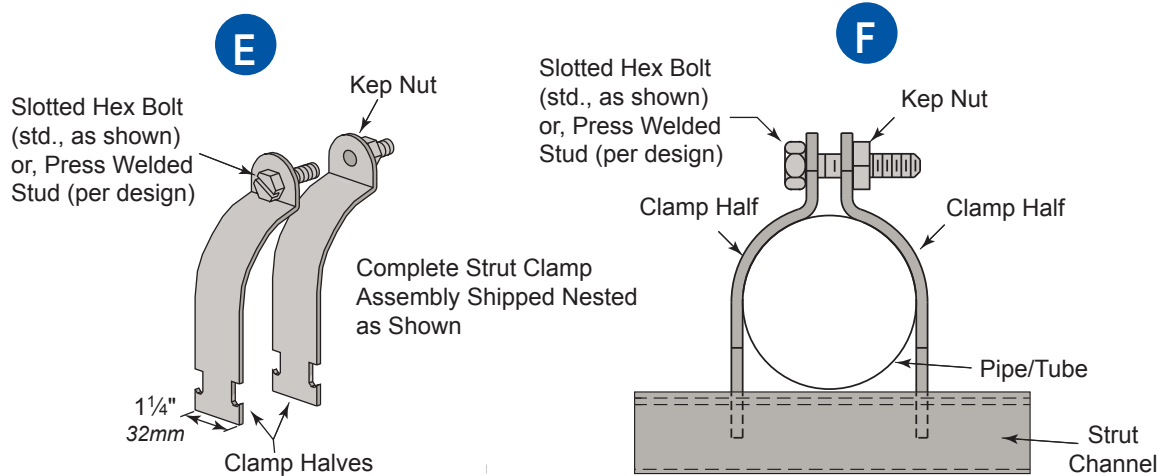
The majority of fittings, are designed to engage at the face of continuous slot channel sections, anywhere along this 1-5/8" surface. Incorporation of either the Holes "H" (9/16" holes, 1-7/8" on center) or the Short Slots "EH" (9/16" x 1-1/8" - 2" on center short slot) configuration has been considered in the fittings' design, especially in hole spacing and placement.

## TYPICAL FITTING DIMENSIONS AND CONTROL DATA (BAR STOCK AND PLATE FABRICATED COMPONENTS)

### Unless otherwise indicated:

- **Width:** 1-5/8" (1.625") unless otherwise specified.
- **Thickness:** 1/4" (material utilized is within nominal tolerance range).
- **Lengths:** As specified on drawing(s).
- **Hole Dimension:** 9/16" (unless specified otherwise).
- **Hole Placement:** 9/16" Diameter holes are aligned along a single or single intersecting centerline (C), which bisects the 1-5/8" (1.625") wide material (flat stock) dimension.
- **Hole Lead-In/Centering:** The 9/16" Diameter holes are located in from leading edges (leading edge to hole center) 13/16" (0.813"). This lead-in dimension controls subsequent center to center positioning and unless otherwise specified or controlled by a fittings gross dimension along a specific axis, field holes are 1-7/8" (1.875") center to center along the material's centerline (C). Dimension from trailing hole center to trailing edge will also be 13/16" (0.813"). (ref drawing: **A**)
- **Bend Design:** Design of each individual bend in this wide selection of fittings has been developed to maximize the material's strength while reducing stress at those bend points. This allows for cohesive nesting with the formed edge radiuses of the channel sections. This design detail provides a minimum tolerance envelope to assure a clean accurate fit and ease of assembly into structural strut/fitting elements.
- **Flat Fittings:** Without any bend from that single plane: For use with channel sections: arranged and co-dependently utilized in a double axis or parallel single axis, single plane situation.





Clamp halves are pushed laterally into place. Ninety degrees to the channel face and touching the pipe element sides. The bolt and nut are installed. The grip design at the channel lips tightens during assembly, securely holding the Strut Clamp assembly in-place.

## FITTING DIMENSIONS AND CONTROL DATA (STRIP I GAUGE MATERIAL FORMED PIPE CLAMP HALVES):

### Unless otherwise indicated:

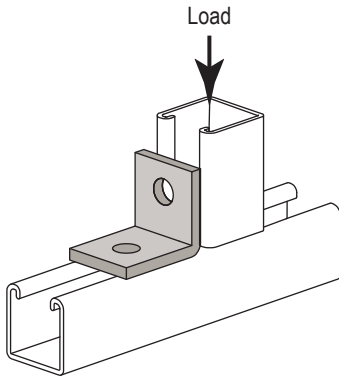
- **Materials width:** 1-1/4" ( 1.250") side to side, forming two identically matching strut clamp sides. (Ref: E and F)
- **Thickness:** Gauge dimensional material is utilized, specific to each individual strut clamp size. Ref. Part Number I Size chart for each style clamp. (Ref: E)
- **Material length:** Specific lengths of material required to fabricate each size strut clamp is not provided. The bolt tang also varies from clamp size to size and style to style.
- **Channel twist-grip feature:** Each clamp half is formed with an in-line, twist-on feature, allowing close proximity installation with a simple insert-twist maneuver. The clamp halves are pushed laterally into place, ninety degrees to the channel face and touching the pipe element sides, and the bolt / nut is installed. The grip design at the channel lip's tightens during assembly, securely holding the strut clamp assembly in place. (Ref: E and F)
- **Hole dimension / Placement:** The receiving hole and bolt pass-thru hole(s) positioned in the punched tang(s), (except in the studded version clamps) are identical sized with standard practice clearance tolerances. Placement and size of holes to accommodate the mechanical studs are similarly positioned for strength and utilization in an appropriately sized punched tang.
- **Bolt dimensions:** National Coarse Sized threaded mild steel hex head/slotted bolts are utilized; dimensions vary from clamp size to clamp size. Ref: Number / Size chart for each style clamp. (Ref: E)
- **Stud attachment:** The mild steel, ASTM conformant National Coarse Size threaded studs, are press fit into an appropriately sized receiving hole and then high resistance welded in place to further secure them against accidental loosening while the Kep nuts are turned into position (use per specific part data call-out).
- **Kep hex nuts** are utilized on all direct contact clamps; .

NOTE: Illustrations of Components throughout are representational. Utilize specific data as shown.

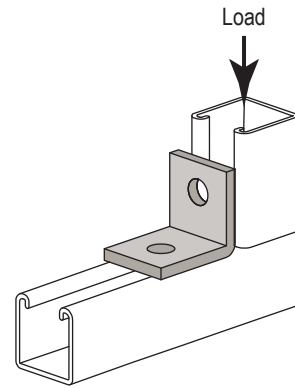
## Crush Load for Channel

### Load Data for Channel Sections, Subject to Crushing Loads

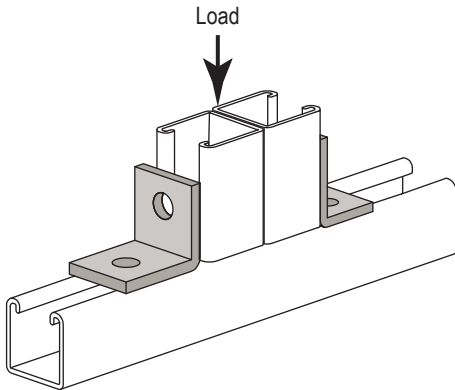
These values are based on a minimum yield point of 33,000 PSI at safety factor of 1.85.



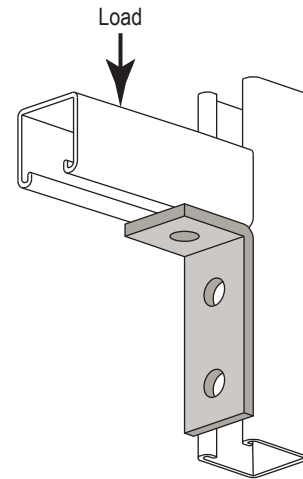
| Channel Used                      | Reaction Load<br>Lbs. (kN) |
|-----------------------------------|----------------------------|
| W200 - 1-5/8" x 1-5/8" - 12 gauge | 7,000# (31.14 kN)          |
| W210 - 1-5/8" x 1-5/8" - 14 gauge | 3,600# (16.01 kN)          |
| W300 - 1-5/8" x 1-3/8" - 12 gauge | 6,900# (30.69 kN)          |
| W500 - 1-5/8" x 13/16" - 14 gauge | 3,400# (15.12 kN)          |



| Channel Used                      | Reaction Load<br>Lbs. (kN) |
|-----------------------------------|----------------------------|
| W200 - 1-5/8" x 1-5/8" - 12 gauge | 2,900# (12.90 kN)          |
| W210 - 1-5/8" x 1-5/8" - 14 gauge | 1,500# (6.67 kN)           |
| W300 - 1-5/8" x 1-3/8" - 12 gauge | 2,800# (12.46 kN)          |
| W500 - 1-5/8" x 13/16" - 14 gauge | 1,400# (6.23 kN)           |



| Channel Used                      | Reaction Load<br>Lbs. (kN) |
|-----------------------------------|----------------------------|
| W200 - 1-5/8" x 1-5/8" - 12 gauge | 7,000# (31.14 kN)          |
| W210 - 1-5/8" x 1-5/8" - 14 gauge | 3,600# (16.01 kN)          |
| W300 - 1-5/8" x 1-3/8" - 12 gauge | 6,900# (30.69 kN)          |
| W500 - 1-5/8" x 13/16" - 14 gauge | 3,400# (15.12 kN)          |



| Channel Used                      | Reaction Load<br>Lbs. (kN) |
|-----------------------------------|----------------------------|
| W200 - 1-5/8" x 1-5/8" - 12 gauge | 2,900# (12.90 kN)          |
| W210 - 1-5/8" x 1-5/8" - 14 gauge | 1,500# (6.67 kN)           |
| W300 - 1-5/8" x 1-3/8" - 12 gauge | 2,800# (12.46 kN)          |
| W500 - 1-5/8" x 13/16" - 14 gauge | 1,400# (6.23 kN)           |

## Point Load

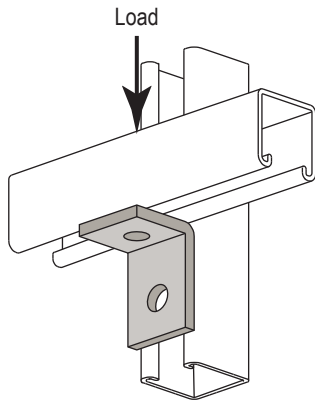
### Design Load Data for Channel Connections

Load diagrams indicate two design loads;  
 one for 1-5/8" x 1-5/8" - 12 gauge sections (see page 39) and  
 one for 1-5/8" x 1-5/8" - 14 gauge sections (see page 40)  
 Safety factor = 2-1/2 based on ultimate strength of connection.

### 90° Fittings

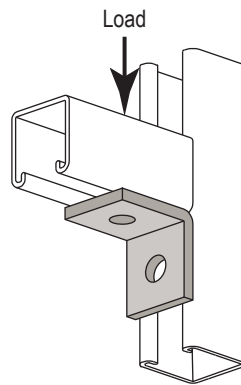
(When used in position shown)

#### 2-Hole Rack Connector



| Channel Used                      | Design Load Lbs. (kN) |
|-----------------------------------|-----------------------|
| W200 - 1-5/8" x 1-5/8" - 12 gauge | 500# (2.22 kN)        |

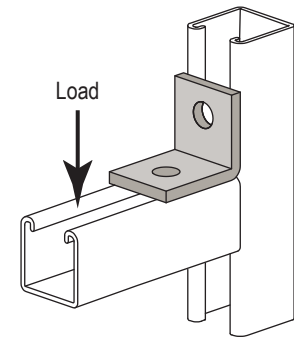
#### 2-Hole End Connector



| Channel Used                      | Design Load Lbs. (kN) |
|-----------------------------------|-----------------------|
| W200 - 1-5/8" x 1-5/8" - 12 gauge | 1,500# (6.67 kN)      |
| W210 - 1-5/8" x 1-5/8" - 14 gauge | 1,000# (4.45 kN)      |

#### 2-Hole End Connector

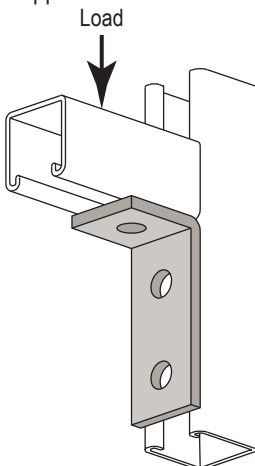
Both Ends Supported



| Channel Used                      | Design Load Lbs. (kN) |
|-----------------------------------|-----------------------|
| W200 - 1-5/8" x 1-5/8" - 12 gauge | 1,000# (4.45 kN)      |
| W210 - 1-5/8" x 1-5/8" - 14 gauge | 650# (2.89 kN)        |

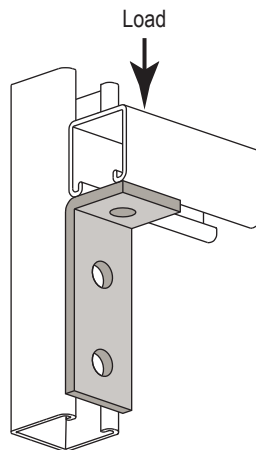
#### 3-Hole End Connector

Both Ends Supported



| Channel Used                      | Design Load in LBS. |
|-----------------------------------|---------------------|
| W200 - 1-5/8" x 1-5/8" - 12 gauge | 2,000# (8.90 kN)    |
| W210 - 1-5/8" x 1-5/8" - 14 gauge | 1,500# (6.67 kN)    |

#### 3-Hole Column Stringer Connector

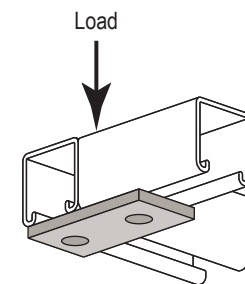


| Channel Used                      | Design Load Lbs. (kN) |
|-----------------------------------|-----------------------|
| W200 - 1-5/8" x 1-5/8" - 12 gauge | 500# (2.22 kN)        |

### Flat Plate Fittings

#### 2-Hole Splice Plate

Both Ends Supported



| Channel Used                      | Design Load in LBS. |
|-----------------------------------|---------------------|
| W200 - 1-5/8" x 1-5/8" - 12 gauge | 1,000# (4.45 kN)    |
| W210 - 1-5/8" x 1-5/8" - 14 gauge | 800# (3.56 kN)      |



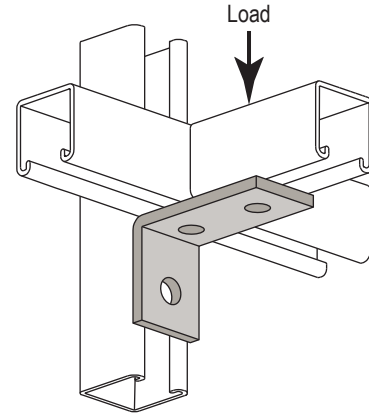
## Uniform Load - 90° Fittings

### Design Load Data for Channel Connections

Load diagrams indicate two design loads;  
 one for 1-5/8" x 1-5/8" - 12 gauge sections  
 (see page 39) and  
 one for 1-5/8" x 1-5/8" - 14 gauge sections  
 (see page 40)  
 Safety factor = 2-1/2 based on ultimate strength  
 of connection.

### 3-Hole Rack Corner Angle

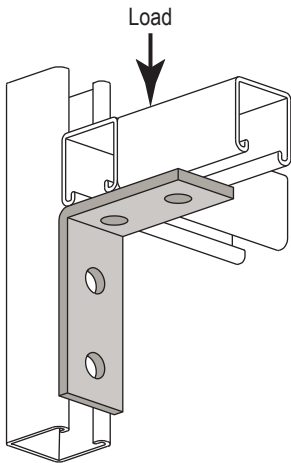
Both Ends Supported



| Channel Used                      | Design Load<br>Lbs. (kN) |
|-----------------------------------|--------------------------|
| W200 - 1-5/8" x 1-5/8" - 12 gauge | 1,500# (6.67 kN)         |
| W210 - 1-5/8" x 1-5/8" - 14 gauge | 1,000# (4.45 kN)         |

### 4-Hole Rack Corner Angle

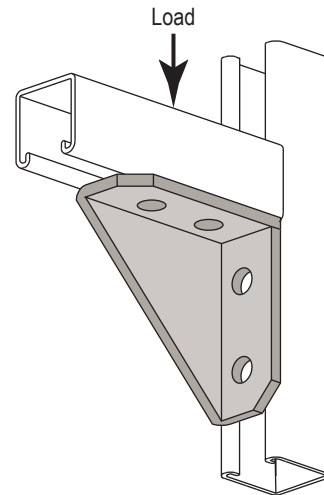
Both Ends Supported



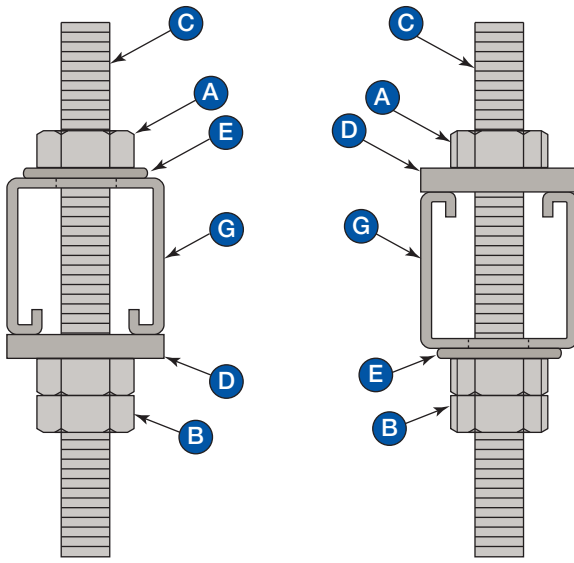
| Channel Used                      | Design Load<br>Lbs. (kN) |
|-----------------------------------|--------------------------|
| W200 - 1-5/8" x 1-5/8" - 12 gauge | 2,000# (8.90 kN)         |
| W210 - 1-5/8" x 1-5/8" - 14 gauge | 2,000# (8.90 kN)         |

### 4-Hole Gusset Corner Angle, Left or Right Hand

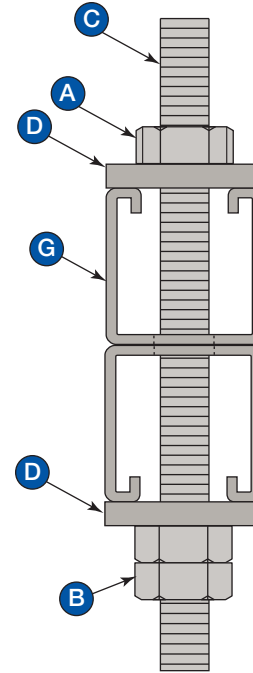
Both Ends Supported



| Channel Used                      | Design Load<br>Lbs. (kN) |
|-----------------------------------|--------------------------|
| W200 - 1-5/8" x 1-5/8" - 12 gauge | 2,000# (8.90 kN)         |
| W210 - 1-5/8" x 1-5/8" - 14 gauge | 2,000# (8.90 kN)         |



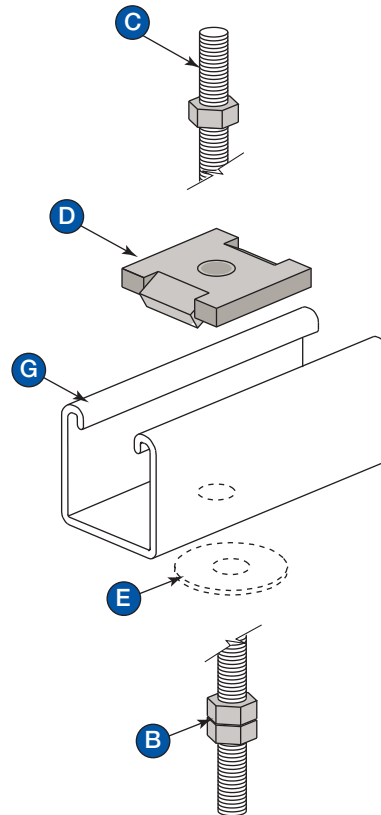
**Single Section Perforated Channel**



**Double Section Perforated Channel**

### Common Components

- A: Top Hex Nut
- B: Bottom Double Hex Nuts
- C: All Thread Rod
- D: Flat Fitting (With Indents Shown).
- E: Fender or "Cut" Washer. (Recommended).
- F: (Not Shown) Lock Washer (S), Kep Nut(S), or Other Security Measures as Required.
- G: Perforated Strut (Recommended).



Over tightening face supported through bolted all thread rod or other mechanical fasteners can distort the channel section beyond its intended maximum safe configuration causing serious distortion and possible failure.

Utilize bolting security measures to prevent accidental loosening.

## Attachment Information

Introduction

Channel

Channel Nuts & Hardware

General Fittings

Brackets

Beam Clamps

Pipe & Conduit Supports

Electrical Fittings

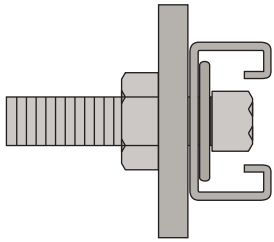
Spring Steel

Concrete Inserts

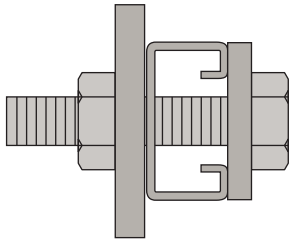
Rooftop Supports

Fiberglass System

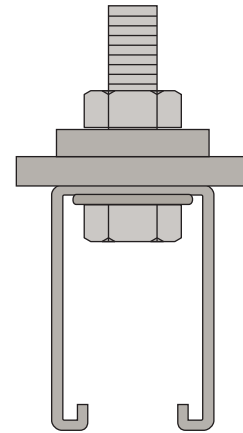
Technical Data



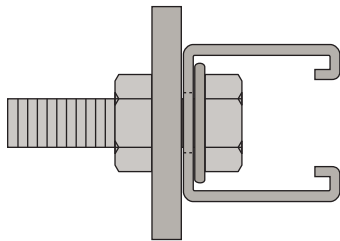
Shallow channel bolted thru from inside to backing plate with  $\frac{1}{2}$ " dia. Allen head bolt and washer; hex nut behind.



Shallow channel bolted thru from face to backing plate with  $\frac{1}{4}$ " face fitting and  $\frac{1}{2}$ " hex bolt; hex nut behind.



Deep style channel bolted thru from inside to beam flange utilizing  $\frac{1}{2}$ " dia. hex bolt washer (inside channel), beveled washer and hex nut on top of flange.

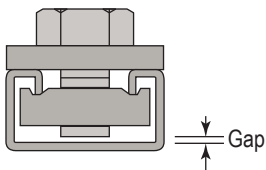


1- $\frac{5}{8}$ " Deep channel type bolted thru from inside to backing plate with  $\frac{3}{8}$ " dia. hex bolt, and washer; hex nut behind.

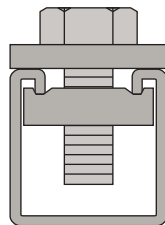
**Do not over tighten faced thru bolts.  
Utilize bolting security measures to prevent accidental loosening.**

### OVER TIGHTENING CAUTION

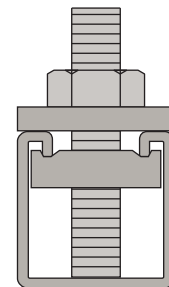
Over tightening "bottoming" a threaded fastener against the bottom of a channel section will result in serious damage and possible failure. Use proper length fasteners and leave a slight gap; fastener face to channel surface.



Shallow channel with  $\frac{1}{4}$ " thick fitting and  $\frac{15}{16}$ " max. bolt length.



1- $\frac{5}{8}$ " Channel with  $\frac{1}{4}$ " fitting and 1- $\frac{1}{4}$ " working length bolt.



1- $\frac{5}{8}$ " Deep Channel with  $\frac{1}{4}$ " thick fitting and  $\frac{1}{2}$ " all thread.

## Instructions

These surface metal raceways are intended for use in the installation of electrical wiring using external joiners. The number, type and size of conductors, which may be installed in these raceways, are tabulated in table below.

Fluorescent and Incandescent Lighting

**Consult your local, state and federal electrical code for all installations**

While the metal wire raceway cover provides electrical continuity to the base and ground wires, if screws are required, they are to be installed in the field. Installation shall conform to Strut-Type Channel Raceway and Fittings UL5B.O

| Wire         |       | Maximum Number of Electrical Wires (at 40% fill) |                                      |                                     |                                     |                                     |                                      |
|--------------|-------|--|--------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|
| Type         | Gauge | W150<br>1 5/8" x 3 1/4"<br>12 gauge              | W100<br>1 5/8" x 2 7/16"<br>12 gauge | W200<br>1 5/8" x 1 5/8"<br>12 gauge | W210<br>1 5/8" x 1 5/8"<br>14 gauge | W300<br>1 5/8" x 1 3/8"<br>12 gauge | W400<br>1 5/8" x 1 3/16"<br>16 gauge |
| FEP, FEPB    | 14    | 172  | 127                                  | 81                                  | 81                                  | 67                                  | 36                                   |
|              | 12    | 126  | 92                                   | 59                                  | 59                                  | 49                                  | 26                                   |
|              | 10    | 90   | 66                                   | 42                                  | 42                                  | 35                                  | 19                                   |
|              | 8     | 51   | 38                                   | 24                                  | 24                                  | 20                                  | 11                                   |
|              | 6     | 24   | 17                                   | 11                                  | 12                                  | 9                                   | 5                                    |
| RH, RHH, RHW | 14    | 52   | 38                                   | 24                                  | 26                                  | 20                                  | 12                                   |
|              | 12    | 45   | 33                                   | 21                                  | 22                                  | 17                                  | 10                                   |
|              | 10    | 37   | 27                                   | 17                                  | 18                                  | 14                                  | 8                                    |
|              | 8     | 20   | 14                                   | 9                                   | 10                                  | 7                                   | 4                                    |
|              | 6     | 14   | 10                                   | 6                                   | 7                                   | 5                                   | 3                                    |
| T, TW        | 14    | 124  | 91                                   | 58                                  | 58                                  | 48                                  | 26                                   |
|              | 12    | 95   | 70                                   | 45                                  | 45                                  | 37                                  | 20                                   |
|              | 10    | 69   | 51                                   | 33                                  | 33                                  | 27                                  | 14                                   |
|              | 8     | 36   | 26                                   | 17                                  | 18                                  | 14                                  | 8                                    |
|              | 6     | 21   | 15                                   | 9                                   | 10                                  | 8                                   | 5                                    |
| THHN, THWN   | 14    | 178  | 131                                  | 84                                  | 84                                  | 69                                  | 37                                   |
|              | 12    | 130  | 95                                   | 61                                  | 61                                  | 50                                  | 27                                   |
|              | 10    | 82   | 60                                   | 38                                  | 38                                  | 32                                  | 17                                   |
|              | 8     | 46   | 34                                   | 21                                  | 22                                  | 17                                  | 10                                   |
|              | 6     | 33   | 24                                   | 15                                  | 16                                  | 12                                  | 7                                    |
| THW          | 14    | 82   | 61                                   | 39                                  | 39                                  | 32                                  | 17                                   |
|              | 12    | 66   | 49                                   | 31                                  | 31                                  | 26                                  | 14                                   |
|              | 10    | 52   | 38                                   | 24                                  | 24                                  | 20                                  | 11                                   |
|              | 8     | 29   | 21                                   | 13                                  | 14                                  | 11                                  | 6                                    |
|              | 6     | 21   | 15                                   | 10                                  | 10                                  | 8                                   | 5                                    |
| XHHW         | 14    | 124  | 91                                   | 58                                  | 58                                  | 48                                  | 26                                   |
|              | 12    | 95   | 70                                   | 45                                  | 45                                  | 37                                  | 20                                   |
|              | 10    | 71   | 52                                   | 33                                  | 33                                  | 28                                  | 15                                   |
|              | 8     | 37   | 27                                   | 17                                  | 19                                  | 14                                  | 8                                    |
|              | 6     | 27   | 20                                   | 13                                  | 14                                  | 10                                  | 6                                    |

### Maximum Number Of Wires

Also suitable for the number of wires in table below when installed to support and supply electric discharge type lighting fixtures when raceway wiring is suitable for at least 70°C and clearance between fixture and raceway is at least 1/8". In all cases, a snap-in cover is required to complete the raceway enclosure.

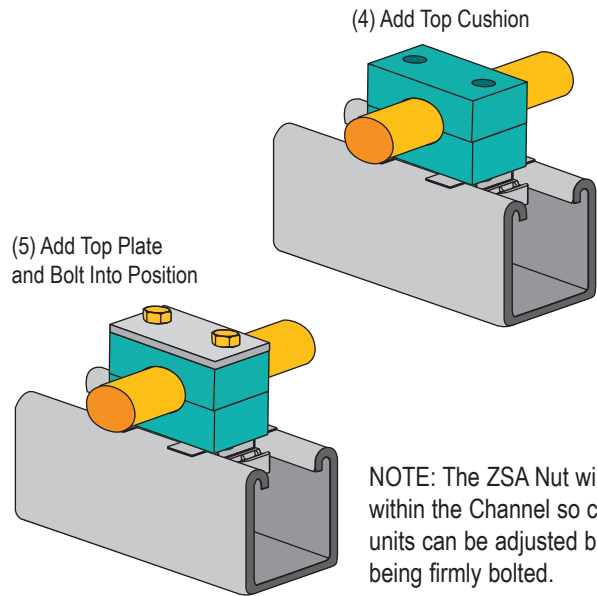
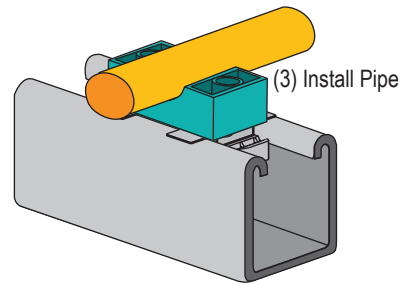
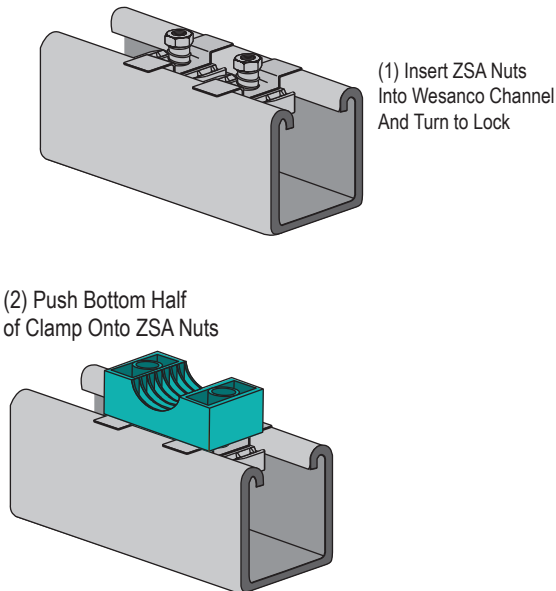
Wire Types - R, RH, T, THW, TW, TF, RUH, and RUW

| Wire Size AWG | W200, W200KO<br>W210, W210KO | W300,<br>W300KO | W500,<br>W500KO |
|---------------|------------------------------|-----------------|-----------------|
| 14            | 10                           | 10              | 6               |
| 12            | 10                           | 10              | 6               |
| 10            | 8                            | 6               | -               |
| 8             | 6                            | 4               | -               |
| 6             | 3                            | 2               | -               |

## Installation on Channel

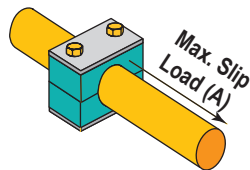
The ZSA Nuts can be used with any clamp using a 1/4"-20 mounting bolt. This includes:

- Standard-Series
- Twin-Series (T1 Only)
- Beta Rubber Inserts



NOTE: The ZSA Nut will slide within the Channel so clamp units can be adjusted before being firmly bolted.

### Maximum Slip Load



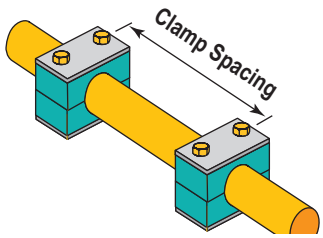
Max. Pipe Slip indicates that Sliding starts when the specified values (A) are reached.

### Beta Standard Series

| ZSI (DIN) | Hex Head Bolt UNC Thread (Metric ISO) | Polypropylene                 |                         | Polyamide                     |                         | Aluminium                     |                         |
|-----------|---------------------------------------|-------------------------------|-------------------------|-------------------------------|-------------------------|-------------------------------|-------------------------|
|           |                                       | Tightening Torque ft•lb (N•m) | Max. Pipe Slip lbf (kN) | Tightening Torque ft•lb (N•m) | Max. Pipe Slip lbf (kN) | Tightening Torque ft•lb (N•m) | Max. Pipe Slip lbf (kN) |
| S1 (1)    | 1/4" - 20 UNC (M6)                    | 6 (8)                         | 247 (11)                | 7 (10)                        | 157 (7)                 | 9 (12)                        | 944 (42)                |
| S2 (2)    |                                       |                               | 292 (13)                |                               | 180 (8)                 |                               | 967 (43)                |
| S3 (3)    |                                       |                               | 315 (14)                |                               | 360 (16)                |                               | 1,101 (49)              |
| S4 (4)    |                                       |                               | 337 (15)                |                               | 382 (17)                |                               | 1,124 (50)              |
| S5 (5)    |                                       |                               | 427 (19)                |                               | 450 (20)                |                               | 1,641 (73)              |
| S6 (6)    |                                       |                               | 450 (20)                |                               | 562 (25)                |                               | 2,000 (89)              |
| S7 (7)    |                                       |                               | 517 (23)                |                               | 719 (32)                |                               | -                       |

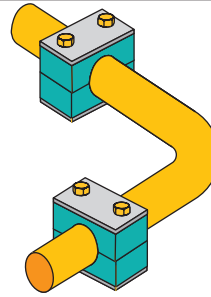


## Recommended Pipe Clamp Spacing



| Pipe OD<br>in (mm)       | Spacing<br>ft - in. (m) |
|--------------------------|-------------------------|
| 0.24" - 0.5" (6 - 12.7)  | 3' - 3" (1)             |
| 0.5" - 0.87" (12.7 - 22) | 3' - 11" (1.2)          |
| 0.87" - 1.26" (22 - 32)  | 4' - 11" (1.5)          |
| 1.26" - 1.5" (32 - 38)   | 6' - 7" (2)             |
| 1.5" - 2.24" (38 - 57)   | 8' - 10" (2.7)          |
| 2.24" - 2.95" (57 - 75)  | 9' - 10" (3)            |
| 2.95" - 3" (75 - 76.1)   | 11' - 6" (3.5)          |
| 3" - 3.5" (76.1 - 88.9)  | 12' - 2" (3.7)          |
| 3.5" - 4" (88.9 - 102)   | 13' - 1" (4)            |
| 4" - 4.5" (102 - 114)    | 14' - 9" (4.5)          |
| 4.5" - 6.6" (114 - 168)  | 16' - 5" (5)            |
| 6.6" - 8.6" (168 - 219)  | 19' - 8" (6)            |
| 8.6" - 12.8" (219 - 324) | 21' - 12" (6.7)         |
| 12.8" - 14" (324 - 356)  | 22' - 12" (7)           |
| 14" - 16" (356 - 406)    | 24' - 7" (7.5)          |
| 16" - 16.5" (406 - 419)  | 26' - 11" (8.2)         |
| 16.5" - 20" (419 - 508)  | 27' - 11" (8.5)         |
| 20" - 20.5" (508 - 521)  | 29' - 6" (9)            |
| 20.5" - 22" (521 - 558)  | 32' - 10" (10)          |
| 22" - 31.5" (558 - 800)  | 41' - 0" (12.5)         |

## Recommended Clamping for Bends



Bends in the line should be clamped on BOTH sides of the bend as shown.

## BETA CLAMP MATERIAL PROPERTIES Polypropylene (PP) Cushion

| Material Properties   |                           |                         |
|---|---------------------------|-------------------------|
| Density   | -                         | 0.906 g/cm <sup>3</sup> |
| Tensile strength  | DIN 53454                 | 25-35 N/mm <sup>2</sup> |
| Flexure stress limit  | DIN 53452                 | 36N N/mm <sup>2</sup>   |
| Compressive strength  | DIN 53454                 | 90 N/mm <sup>2</sup>    |
| Impact strength   | DIN 53453                 | No break                |
| Thermo Properties   |                           |                         |
| Max. temp. resistance   | -30 to 90°C               |                         |
| Thermal conductivity  | 15 x 10 <sup>-5</sup> /°C |                         |
| Linear expansion coeff.   | 0.22 W/[mk]               |                         |
| Electrical Properties   |                           |                         |
| Specific volume   | DIN 53482                 | 1016 ohm x cm           |
| Chemical Properties   |                           |                         |
| Consistent for weak acids, solvents, mineral oils and seawater. |                           |                         |

## Beta Bolt Tightening Torque

| Clamp         | Group   | Bolt Size | Aluminum Cushion |     | Polypropylene Cushion |    | Polyamide Cushion |    |
|---------------|---------|-----------|------------------|-----|-----------------------|----|-------------------|----|
|               |         |           | Lbf              | Nm  | Lbf                   | Nm | Lbf               | Nm |
| Beta Standard | S1 - S7 | 1/4"-20   | 7                | 10  | 6                     | 8  | 6                 | 8  |
| Beta Heavy    | H3, H4  | 3/8"-16   | 22               | 30  | 9                     | 12 | 15                | 20 |
|               | H5      | 3/8"-16   | 26               | 35  | 11                    | 15 | 18                | 25 |
|               | H6      | 1/2"-13   | 41               | 55  | 29                    | 30 | 30                | 40 |
|               | H7      | 5/8"-11   | 89               | 120 | 33                    | 45 | 41                | 55 |
| Beta Twin     | T1      | 1/4"-20   | -                | -   | 4                     | 6  | 4                 | 6  |
|               | T2 - T5 | 5/16"-18  | -                | -   | 9                     | 12 | 9                 | 12 |

The outlined particulars are approximate values and are only valid as references, which are not binding, also with regard to possible protection of third parties, and they do not exempt you from your own examination of suitability of the products delivered by us. Therefore, these values can only be used in a limited sense for construction purposes. The application of the products is carried out outside our control possibilities and, therefore, is exclusively subject to your own area of responsibility. If, however, liability should be possible, it would be limited for all damages to the value of the goods supplied by us and in use by you. It goes without saying, that we guarantee the perfect quality of our products according to our general sales and delivery conditions.

| Drill Sizes for NPT Pipe Taps |              |                  |
|-------------------------------|--------------|------------------|
| Tap Size (In.)                | Threads/Inch | Drill Dia. (In.) |
| 1/8"                          | 27           | R                |
| 1/4"                          | 18           | 7/16"            |
| 3/8"                          | 18           | 37/64"           |
| 1/2"                          | 14           | 23/32"           |
| 3/4"                          | 14           | 59/64"           |
| 1"                            | 11 1/2       | 1 5/32"          |
| 1 1/4"                        | 11 1/2       | 1 1/2"           |
| 1 1/2"                        | 11 1/2       | 1 47/64"         |
| 2"                            | 11 1/2       | 2 7/32"          |
| 2 1/2"                        | 8            | 2 5/8"           |
| 3"                            | 8            | 3 1/4"           |
| 3 1/2"                        | 8            | 3 3/4"           |
| 4"                            | 8            | 4 1/4"           |

| Tap & Drill Sizes<br>(Unified National Coarse) |              |                  |
|--|--------------|------------------|
| Tap Size (In.)                                 | Threads/Inch | Drill Size (In.) |
| 1/4"   | 20           | 7                |
| 5/16"  | 18           | F                |
| 3/8"   | 16           | 5/16"            |
| 7/16"  | 14           | U                |
| 1/2"   | 13           | 27/64"           |
| 9/16"  | 12           | 31/64"           |
| 5/8"   | 11           | 17/32"           |
| 3/4"   | 10           | 21/32"           |
| 7/8"   | 9            | 49/64"           |
| 1"   | 8            | 7/8"             |
| 1 1/8"   | 7            | 63/64"           |
| 1 1/4"   | 7            | 1 1/64"          |
| 1 3/8"   | 6            | 1 1/32"          |
| 1 1/2"   | 6            | 1 1/32"          |
| 1 3/4"   | 5            | 1 9/16"          |
| 2"   | 4 1/2        | 1 25/32"         |

| Standard Weight Pipe Data |         |         |                     |                               |                                |
|---------------------------|---------|---------|---------------------|-------------------------------|--------------------------------|
| Nom. Diameter (In.)       |         |         | Nom. Wt./Ft. (lbs.) | Length Containing One Cu. Ft. | Gallons / Linear Ft. (Gallons) |
| Pipe                      | Inside  | Outside |                     |                               |                                |
| 1/8"                      | 0.269"  | 0.405"  | 0.245               | 2,526.000                     | 0.0030                         |
| 1/4"                      | 0.364"  | 0.540"  | 0.425               | 1,383.800                     | 0.0054                         |
| 3/8"                      | 0.493"  | 0.675"  | 0.568               | 754.360                       | 0.0099                         |
| 1/2"                      | 0.622"  | 0.840"  | 0.851               | 473.910                       | 0.0158                         |
| 3/4"                      | 0.824"  | 1.050"  | 1.131               | 270.030                       | 0.0277                         |
| 1"                        | 1.049"  | 1.315"  | 1.679               | 166.620                       | 0.0449                         |
| 1 1/4"                    | 1.380"  | 1.660"  | 2.273               | 96.275                        | 0.0777                         |
| 1 1/2"                    | 1.610"  | 1.900"  | 2.718               | 70.733                        | 0.1058                         |
| 2"                        | 2.067"  | 2.375"  | 3.653               | 49.913                        | 0.1743                         |
| 2 1/2"                    | 2.469"  | 2.875"  | 5.793               | 30.077                        | 0.2487                         |
| 3"                        | 3.068"  | 3.500"  | 7.580               | 19.479                        | 0.3840                         |
| 3 1/2"                    | 3.548"  | 4.000"  | 9.110               | 14.565                        | 0.5136                         |
| 4"                        | 4.026"  | 4.500"  | 10.790              | 11.312                        | 0.6613                         |
| 5"                        | 5.047"  | 5.563"  | 14.620              | 7.198                         | 1.0393                         |
| 6"                        | 6.065"  | 6.625"  | 18.970              | 4.984                         | 1.5008                         |
| 8"                        | 7.981"  | 8.625"  | 28.550              | 2.878                         | 2.5988                         |
| 10"                       | 10.020" | 10.750" | 40.480              | 1.826                         | 4.0963                         |

| Copper Tube Data - Type L |            |            |                   |                       |                             |
|---------------------------|------------|------------|-------------------|-----------------------|-----------------------------|
| Size (In.)                | O.D. (In.) | O.D. (In.) | Wall Thick. (In.) | Weight per Foot (lbs) | Weight of Water / Ft. (lbs) |
| 1/4"                      | 3/8"       | 0.375"     | 0.030"            | 0.126                 | 0.034                       |
| 3/8"                      | 1/2"       | 0.500"     | 0.035"            | 0.198                 | 0.062                       |
| 1/2"                      | 5/8"       | 0.625"     | 0.040"            | 0.285                 | 0.100                       |
| 5/8"                      | 3/4"       | 0.750"     | 0.042"            | 0.362                 | 0.151                       |
| 3/4"                      | 7/8"       | 0.875"     | 0.045"            | 0.455                 | 0.209                       |
| 1"                        | 1 1/8"     | 1.125"     | 0.050"            | 0.655                 | 0.357                       |
| 1 1/4"                    | 1 3/8"     | 1.375"     | 0.055"            | 0.884                 | 0.546                       |
| 1 1/2"                    | 1 5/8"     | 1.625"     | 0.060"            | 1.140                 | 0.767                       |
| 2"                        | 2 1/8"     | 2.125"     | 0.070"            | 1.750                 | 1.341                       |
| 2 1/2"                    | 2 5/8"     | 2.625"     | 0.080"            | 2.480                 | 2.064                       |
| 3"                        | 3 1/8"     | 3.125"     | 0.090"            | 3.330                 | 2.949                       |
| 3 1/2"                    | 3 5/8"     | 3.625"     | 0.100"            | 4.290                 | 3.989                       |
| 4"                        | 4 1/8"     | 4.125"     | 0.110"            | 5.380                 | 5.188                       |
| 5"                        | 5 1/8"     | 5.125"     | 0.125"            | 7.610                 | 8.081                       |
| 6"                        | 6 1/8"     | 6.125"     | 0.140"            | 10.200                | 11.616                      |
| 8"                        | 8 1/8"     | 8.125"     | 0.200"            | 19.290                | 20.289                      |
| 10"                       | 10 1/8"    | 10.125"    | 0.250"            | 30.100                | 31.590                      |
| 12"                       | 12 1/8"    | 12.125"    | 0.280"            | 40.400                | 45.426                      |

| Copper Tube Data - Type K |            |            |                   |                       |                             |
|---------------------------|------------|------------|-------------------|-----------------------|-----------------------------|
| Size (In.)                | O.D. (In.) | O.D. (In.) | Wall Thick. (In.) | Weight per Foot (lbs) | Weight of Water / Ft. (lbs) |
| 1/4"                      | 3/8"       | 0.375"     | 0.035"            | 0.145                 | 0.032                       |
| 3/8"                      | 1/2"       | 0.500"     | 0.049"            | 0.269                 | 0.055                       |
| 1/2"                      | 5/8"       | 0.625"     | 0.049"            | 0.344                 | 0.094                       |
| 5/8"                      | 3/4"       | 0.750"     | 0.049"            | 0.418                 | 0.144                       |
| 3/4"                      | 7/8"       | 0.875"     | 0.065"            | 0.641                 | 0.188                       |
| 1"                        | 1 1/8"     | 1.125"     | 0.065"            | 0.839                 | 0.337                       |
| 1 1/4"                    | 1 3/8"     | 1.375"     | 0.065"            | 1.040                 | 0.527                       |
| 1 1/2"                    | 1 5/8"     | 1.625"     | 0.072"            | 1.360                 | 0.743                       |
| 2"                        | 2 1/8"     | 2.125"     | 0.083"            | 2.060                 | 1.310                       |
| 2 1/2"                    | 2 5/8"     | 2.625"     | 0.095"            | 2.920                 | 2.000                       |
| 3"                        | 3 1/8"     | 3.125"     | 0.109"            | 4.000                 | 2.960                       |
| 3 1/2"                    | 3 5/8"     | 3.625"     | 0.120"            | 5.120                 | 3.900                       |
| 4"                        | 4 1/8"     | 4.125"     | 0.134"            | 6.510                 | 5.060                       |
| 5"                        | 5 1/8"     | 5.125"     | 0.160"            | 9.670                 | 8.000                       |
| 6"                        | 6 1/8"     | 6.125"     | 0.192"            | 13.870                | 11.200                      |
| 8"                        | 8 1/8"     | 8.125"     | 0.271"            | 25.900                | 19.500                      |
| 10"                       | 10 1/8"    | 10.125"    | 0.338"            | 40.300                | 30.423                      |
| 12"                       | 12 1/8"    | 12.125"    | 0.405"            | 57.800                | 43.675                      |

| Steel Pipe Data — Schedule No 40 & 80 |            |              |                   |                       |                                |
|---------------------------------------|------------|--------------|-------------------|-----------------------|--------------------------------|
| Nominal Size (In.)                    | O.D. (In.) | Schedule No. | Wall Thick. (In.) | Weight per Foot (lbs) | Weight of Water per Foot (lbs) |
| 3/8"                                  | 0.675"     | 40           | 0.091"            | 0.567                 | 0.083                          |
|                                       |            | 80           | 0.126"            | 0.738                 | 0.061                          |
| 1/2"                                  | 0.840"     | 40           | 0.109"            | 0.850                 | 0.132                          |
|                                       |            | 80           | 0.147"            | 1.087                 | 0.101                          |
| 3/4"                                  | 1.050"     | 40           | 0.113"            | 1.130                 | 0.230                          |
|                                       |            | 80           | 0.154"            | 1.473                 | 0.186                          |
| 1"                                    | 1.315"     | 40           | 0.133"            | 1.678                 | 0.374                          |
|                                       |            | 80           | 0.179"            | 2.171                 | 0.311                          |
| 1 1/4"                                | 1.660"     | 40           | 0.140"            | 2.272                 | 0.647                          |
|                                       |            | 80           | 0.191"            | 2.996                 | 0.555                          |
| 1 1/2"                                | 1.900"     | 40           | 0.145"            | 2.717                 | 0.882                          |
|                                       |            | 80           | 0.200"            | 3.631                 | 0.765                          |
| 2"                                    | 2.375"     | 40           | 0.154"            | 3.652                 | 1.452                          |
|                                       |            | 80           | 0.218"            | 5.022                 | 1.279                          |
| 2 1/2"                                | 2.875"     | 40           | 0.203"            | 5.790                 | 2.072                          |
|                                       |            | 80           | 0.276"            | 7.660                 | 1.834                          |
| 3"                                    | 3.500"     | 40           | 0.216"            | 7.570                 | 3.200                          |
|                                       |            | 80           | 0.300"            | 10.250                | 2.860                          |
| 3 1/2"                                | 4.000"     | 40           | 0.226"            | 9.110                 | 4.280                          |
|                                       |            | 80           | 0.318"            | 12.510                | 3.850                          |
| 4"                                    | 4.500"     | 40           | 0.237"            | 10.790                | 5.510                          |
|                                       |            | 80           | 0.337"            | 14.980                | 4.980                          |
| 5"                                    | 5.563"     | 40           | 0.258"            | 14.620                | 8.660                          |
|                                       |            | 80           | 0.375"            | 20.780                | 7.870                          |
| 6"                                    | 6.625"     | 40           | 0.280"            | 18.970                | 12.510                         |
|                                       |            | 80           | 0.432"            | 28.570                | 11.290                         |
| 8"                                    | 8.625"     | 40           | 0.322"            | 28.550                | 21.600                         |
|                                       |            | 80           | 0.500"            | 43.390                | 19.800                         |
| 10"                                   | 10.750"    | 40           | 0.365"            | 40.480                | 34.100                         |
|                                       |            | 80           | 0.593"            | 64.400                | 31.100                         |
| 12"                                   | 12.75"     | 40           | 0.406"            | 53.600                | 48.500                         |
|                                       |            | 80           | 0.687"            | 88.600                | 44.000                         |
| 14"                                   | 14.000"    | 40           | 0.437"            | 63.000                | 58.500                         |
|                                       |            | 80           | 0.750"            | 107.000               | 51.200                         |
| 16"                                   | 16.000"    | 40           | 0.500"            | 83.000                | 76.500                         |
|                                       |            | 80           | 0.843"            | 137.000               | 69.700                         |
| 18"                                   | 18.000"    | 40           | 0.563"            | 105.000               | 97.200                         |
|                                       |            | 80           | 0.937"            | 171.000               | 88.500                         |
| 20"                                   | 20.000"    | 40           | 0.593"            | 123.000               | 120.400                        |
|                                       |            | 80           | 1.031"            | 209.000               | 109.400                        |

Introduction  
Channel  
Channel Nuts & Hardware  
General Fittings  
Brackets  
Beam Clamps  
Pipe & Conduit Supports  
Electrical Fittings  
Spring Steel  
Concrete Inserts  
Roofing Supports  
Fiberglass System  
Technical Data

| PVC and CPVC Pipes - Schedule 40 (inches) |                  |                        |                         |                    |      |
|---|------------------|------------------------|-------------------------|--------------------|------|
| Nominal Pipe Size                         | Outside Diameter | Minimum Wall Thickness | Nominal Inside Diameter | Weight (lb/100 ft) |      |
|   |                  |                        |                         | PVC                | CPVC |
| 1/2"                                      | 0.840"           | 0.109"                 | 0.622"                  | 16                 | 17   |
| 3/4"                                      | 1.050"           | 0.113"                 | 0.824"                  | 21                 | 23   |
| 1"  | 1.315"           | 0.133"                 | 1.049"                  | 32                 | 34   |
| 1 1/4"                                    | 1.660"           | 0.140"                 | 1.380"                  | 43                 | 46   |
| 1 1/2"                                    | 1.900"           | 0.145"                 | 1.610"                  | 51                 | 55   |
| 2"  | 2.375"           | 0.154"                 | 2.067"                  | 68                 | 74   |
| 2 1/2"                                    | 2.875"           | 0.203"                 | 2.469"                  | 107                | 118  |
| 3"  | 3.500"           | 0.216"                 | 3.068"                  | 141                | 154  |
| 4"  | 4.500"           | 0.237"                 | 4.026"                  | 201                | 220  |
| 5"  | 5.563"           | 0.258"                 | 5.047"                  | 273                | -    |
| 6"  | 6.625"           | 0.280"                 | 6.065"                  | 353                | 386  |
| 8"  | 8.625"           | 0.322"                 | 7.981"                  | 539                | 581  |
| 10"                                       | 10.750"          | 0.365"                 | 10.020"                 | 755                | 824  |
| 12"                                       | 12.750"          | 0.406"                 | 11.938"                 | 1001               | 1089 |
| 14"                                       | 14.000"          | 0.438"                 | 13.124"                 | 1180               | -    |
| 16"                                       | 16.000"          | 0.500"                 | 15.000"                 | 1543               | -    |

| PVC and CPVC Pipes - Schedule 80 (inches) |                  |                        |                         |                    |      |
|---|------------------|------------------------|-------------------------|--------------------|------|
| Nominal Pipe Size                         | Outside Diameter | Minimum Wall Thickness | Nominal Inside Diameter | Weight (lb/100 ft) |      |
|   |                  |                        |                         | PVC                | CPVC |
| 1/2"                                      | 0.840"           | 0.147"                 | 0.546"                  | 20                 | 22   |
| 3/4"                                      | 1.050"           | 0.154"                 | 0.742"                  | 27                 | 30   |
| 1"  | 1.315"           | 0.179"                 | 0.957"                  | 41                 | 44   |
| 1 1/4"                                    | 1.660"           | 0.191"                 | 1.278"                  | 52                 | 61   |
| 1 1/2"                                    | 1.900"           | 0.200"                 | 1.500"                  | 67                 | 74   |
| 2"  | 2.375"           | 0.218"                 | 1.939"                  | 95                 | 102  |
| 2 1/2"                                    | 2.875"           | 0.276"                 | 2.323"                  | 145                | 156  |
| 3"  | 3.500"           | 0.300"                 | 2.900"                  | 194                | 209  |
| 4"  | 4.500"           | 0.337"                 | 3.826"                  | 275                | 305  |
| 5"  | 5.563"           | 0.375"                 | 4.813"                  | 387                | -    |
| 6"  | 6.625"           | 0.432"                 | 5.761"                  | 542                | 582  |
| 8"  | 8.625"           | 0.500"                 | 7.625"                  | 805                | 883  |
| 10"                                       | 10.750"          | 0.593"                 | 9.564"                  | 1200               | 1309 |
| 12"                                       | 12.750"          | 0.687"                 | 11.376"                 | 1650               | 180  |
| 14"                                       | 14.000"          | 0.750"                 | 12.500"                 | 1930               | -    |
| 16"                                       | 16.000"          | 0.843"                 | 14.314"                 | 2544               | -    |

| PVC - Wall Schedule 40 - Support Spacing (feet) |                            |       |       |
|---|----------------------------|-------|-------|
| NPS (inches)                                    | Operating Temperature (°F) |       |       |
|   | 60                         | 100   | 140   |
| 1/2"  | 4 1/2                      | 4     | 2 1/2 |
| 3/4"  | 5                          | 4     | 2 1/2 |
| 1"  | 5 1/2                      | 4 1/2 | 2 1/2 |
| 1 1/4"  | 5 1/2                      | 5     | 3     |
| 1 1/2"  | 6                          | 5     | 3     |
| 2"  | 6                          | 5     | 3     |
| 3"  | 7                          | 6     | 3 1/2 |
| 4"  | 7 1/2                      | 6 1/2 | 4     |
| 6"  | 8 1/2                      | 7 1/2 | 4 1/2 |
| 8"  | 9                          | 8     | 4 1/2 |

| PVC - Wall Schedule 80 - Support Spacing (feet) |                            |       |       |
|---|----------------------------|-------|-------|
| NPS (inches)                                    | Operating Temperature (°F) |       |       |
|   | 60                         | 100   | 140   |
| 1/2"  | 5                          | 4 1/2 | 2 1/2 |
| 3/4"  | 5 1/2                      | 4 1/2 | 2 1/2 |
| 1"  | 6                          | 5     | 3     |
| 1 1/4"  | 6 1/2                      | 5 1/2 | 3 1/2 |
| 1 1/2"  | 7                          | 6     | 3 1/2 |
| 2"  | 8                          | 7     | 4     |
| 3"  | 9                          | 7 1/2 | 4 1/2 |
| 4"  | 10                         | 9     | 5     |
| 6"  | 11                         | 9 1/2 | 5 1/2 |
| 8"  | 9                          | 8     | 4 1/2 |

| Hydraulic Hose - No Skive SAE 100R1 Type AT |           |      |           |      |
|---|-----------|------|-----------|------|
| SAE Number                                  | Hose I.D. |      | Hose O.D. |      |
|   | (in.)     | (mm) | (in.)     | (mm) |
| SAE-3                                       | 3/16"     | 5.0  | 0.46"     | 12   |
| SAE-4                                       | 1/4"      | 6.3  | 0.53"     | 13   |
| SAE-5                                       | 5/16"     | 8.0  | 0.59"     | 15   |
| SAE-6                                       | 3/8"      | 10.0 | 0.68"     | 17   |
| SAE-8                                       | 1/2"      | 12.5 | 0.81"     | 21   |
| SAE-10                                      | 5/8"      | 16.0 | 0.94"     | 24   |
| SAE-12                                      | 3/4"      | 19.0 | 1.09"     | 28   |
| SAE-16                                      | 1"        | 25.0 | 1.41"     | 36   |
| SAE-20                                      | 1-1/4"    | 31.5 | 1.79"     | 45   |
| SAE-24                                      | 1-1/2"    | 38.0 | 2.00"     | 51   |
| SAE-32                                      | 2"        | 51.0 | 2.54"     | 64   |

| Hydraulic Hose - No Skive SAE 100R2 Type AT - ISO 1436 Type 2AT - EN 853 Type 2SN |           |      |           |      |
|---|-----------|------|-----------|------|
| SAE Number  | Hose I.D. |      | Hose O.D. |      |
|   | (in.)     | (mm) | (in.)     | (mm) |
| SAE-4   | 1/4"      | 6.3  | 0.53"     | 13   |
| SAE-5   | 5/16"     | 8.0  | 0.59"     | 15   |
| SAE-6   | 3/8"      | 10.0 | 0.68"     | 17   |
| SAE-8   | 1/2"      | 12.5 | 0.81"     | 21   |
| SAE-10  | 5/8"      | 16.0 | 0.94"     | 24   |
| SAE-12  | 3/4"      | 19.0 | 1.09"     | 28   |
| SAE-16  | 1"        | 25.0 | 1.41"     | 36   |
| SAE-20  | 1-1/4"    | 31.5 | 1.79"     | 45   |
| SAE-24  | 1-1/2"    | 38.0 | 2.00"     | 51   |
| SAE-32  | 2"        | 51.0 | 2.54"     | 64   |

| Hydraulic Hose - SAE 100R16 Type AT |           |      |           |      |
|-------------------------------------|-----------|------|-----------|------|
| SAE Number                          | Hose I.D. |      | Hose O.D. |      |
|                                     | (in.)     | (mm) | (in.)     | (mm) |
| SAE-4                               | 1/4"      | 6.3  | 0.53"     | 13   |
| SAE-5                               | 5/16"     | 8.0  | 0.59"     | 15   |
| SAE-6                               | 3/8"      | 10.0 | 0.68"     | 17   |
| SAE-8                               | 1/2"      | 12.5 | 0.81"     | 21   |
| SAE-10                              | 5/8"      | 16.0 | 0.94"     | 24   |
| SAE-12                              | 3/4"      | 19.0 | 1.09"     | 28   |
| SAE-16                              | 1"        | 25.0 | 1.41"     | 36   |

| Hydraulic Hose - No Skive SAE 100R17 Abrasion Resistant "Tough Cover" and "Super Tough" Cover |           |      |           |      |
|---|-----------|------|-----------|------|
| SAE Number  | Hose I.D. |      | Hose O.D. |      |
|   | (in.)     | (mm) | (in.)     | (mm) |
| SAE-4   | 1/4"      | 6.3  | 0.53"     | 13   |
| SAE-6   | 3/8"      | 10.0 | 0.68"     | 17   |
| SAE-8   | 1/2"      | 12.5 | 0.81"     | 21   |
| SAE-10  | 5/8"      | 16.0 | 0.94"     | 24   |
| SAE-12  | 3/4"      | 19.0 | 1.09"     | 28   |
| SAE-16  | 1"        | 25.0 | 1.41"     | 36   |
| SAE-20  | 1-1/4"    | 31.5 | 1.79"     | 45   |

# Fraction Conversion Table



| Fractions | Decimal<br>(in) | Metric<br>(mm) | Fractions | Decimal<br>(in) | Metric<br>(mm) | Fractions | Decimal<br>(in) | Metric<br>(mm) | Fractions | Decimal<br>(in) | Metric<br>(mm) |
|-----------|-----------------|----------------|-----------|-----------------|----------------|-----------|-----------------|----------------|-----------|-----------------|----------------|
| 1/64      | 0.016"          | 0.40           | 23/32     | 0.719"          | 18.26          |           | 2.165"          | 55             | 3 7/8     | 3.875"          | 98.43          |
| 1/32      | 0.031"          | 0.79           | 47/64     | 0.734"          | 18.65          | 2 3/16    | 2.188"          | 55.56          | 3 29/32   | 3.906"          | 99.22          |
|           | 0.039"          | 1              |           | 0.748"          | 19             | 2 7/32    | 2.219"          | 56.36          |           | 3.937"          | 100            |
| 3/64      | 0.047"          | 1.19           | 3/4       | 0.750"          | 19.05          | 2 1/4     | 2.250"          | 57.15          | 3 15/16   | 3.938"          | 100.01         |
| 1/16      | 0.063"          | 1.59           | 49/64     | 0.766"          | 19.45          | 2 9/32    | 2.281"          | 57.94          | 3 31/32   | 3.969"          | 100.81         |
| 5/64      | 0.078"          | 1.98           | 25/32     | 0.781"          | 19.84          | 2 5/16    | 2.313"          | 58.74          | 4         | 4"              | 101.60         |
|           | 0.079"          | 2              |           | 0.787"          | 20             | 2 11/32   | 2.344"          | 59.53          | 4 1/16    | 4.063"          | 103.19         |
| 3/32      | 0.094"          | 2.38           | 51/64     | 0.797"          | 20.24          |           | 2.362"          | 60             | 4 1/8     | 4.125"          | 104.78         |
| 7/64      | 0.109"          | 2.78           | 13/16     | 0.813"          | 20.64          | 2 3/8     | 2.375"          | 60.33          | 4 3/16    | 4.188"          | 106.36         |
|           | 0.118"          | 3              | 53/64     | 0.828"          | 21.03          | 2 13/32   | 2.406"          | 61.12          | 4 1/4     | 4.250"          | 107.95         |
| 1/8       | 0.125"          | 3.18           | 27/32     | 0.844"          | 21.43          | 2 7/16    | 2.438"          | 61.91          | 4 5/16    | 4.313"          | 109.54         |
| 9/64      | 0.141"          | 3.57           | 55/64     | 0.859"          | 21.83          | 2 15/32   | 2.469"          | 62.71          |           | 4.331"          | 110            |
| 5/32      | 0.156"          | 3.97           | 7/8       | 0.875"          | 22.23          | 2 1/2     | 2.500"          | 63.50          | 4 3/8     | 4.375"          | 111.13         |
|           | 0.157"          | 4              | 57/64     | 0.891"          | 22.62          | 2 11/32   | 2.531"          | 64.29          | 4 7/16    | 4.438"          | 112.71         |
| 11/64     | 0.172"          | 4.37           | 29/32     | 0.906"          | 23             |           | 2.559"          | 65             | 4 1/2     | 4.500"          | 114.30         |
| 3/16      | 0.188"          | 4.76           | 59/64     | 0.922"          | 23.42          | 2 9/16    | 2.563"          | 65.09          | 4 9/16    | 4.563"          | 115.89         |
|           | 0.197"          | 5              | 15/16     | 0.938"          | 23.81          | 2 19/32   | 2.594"          | 65.88          | 4 5/8     | 4.625"          | 117.48         |
| 13/64     | 0.203"          | 5.16           | 61/64     | 0.953"          | 24.21          | 2 5/8     | 2.625"          | 66.68          | 4 11/16   | 4.688"          | 119.06         |
| 7/32      | 0.219"          | 5.56           | 31/32     | 0.969"          | 24.61          | 2 21/32   | 2.656"          | 67.47          |           | 4.724"          | 120            |
| 15/64     | 0.234"          | 5.95           | 63/64     | 0.984"          | 25             | 2 11/16   | 2.688"          | 68.26          | 4 3/4     | 4.750"          | 120.65         |
|           | 0.236"          | 6              | 1         | 1"              | 25.40          | 2 23/32   | 2.719"          | 69.06          | 4 13/16   | 4.813"          | 122.24         |
| 1/4       | 0.250"          | 6.35           | 1 1/32    | 1.031"          | 26.19          | 2 3/4     | 2.750"          | 69.85          | 4 7/8     | 4.875"          | 123.83         |
| 17/64     | 0.266"          | 6.75           | 1 1/16    | 1.063"          | 26.99          |           | 2.756"          | 70             | 4 15/16   | 4.938"          | 125.41         |
|           | 0.276"          | 7              | 1 3/32    | 1.094"          | 27.78          | 2 25/32   | 2.781"          | 70.64          | 5         | 5"              | 127.00         |
| 9/32      | 0.281"          | 7.14           | 1 1/8     | 1.125"          | 28.58          | 2 13/16   | 2.813"          | 71.44          |           | 5.118"          | 130            |
| 19/64     | 0.297"          | 7.54           | 1 5/32    | 1.156"          | 29.37          | 2 27/32   | 2.844"          | 72.23          | 5 1/4     | 5.250"          | 133.35         |
| 5/16      | 0.313"          | 7.94           |           | 1.181"          | 30             | 2 7/8     | 2.875"          | 73.03          | 5 1/2     | 5.500"          | 139.70         |
|           | 0.315"          | 8              | 1 3/16    | 1.188"          | 30.16          | 2 29/32   | 2.906"          | 73.82          |           | 5.512"          | 140            |
| 21/64     | 0.328"          | 8.33           | 1 7/32    | 1.219"          | 30.96          | 2 15/16   | 2.938"          | 74.61          | 5 3/4     | 5.750"          | 146.05         |
| 11/32     | 0.344"          | 8.73           | 1 1/4     | 1.250"          | 31.75          |           | 2.953"          | 75             |           | 5.906"          | 150            |
|           | 0.354"          | 9              | 1 9/32    | 1.281"          | 32.54          | 2 31/32   | 2.969"          | 75.41          | 6         | 6"              | 152.40         |
| 23/64     | 0.359"          | 9.13           | 1 5/16    | 1.313"          | 33.34          | 3         | 3"              | 76.20          | 6 1/4     | 6.250"          | 158.75         |
| 3/8       | 0.375"          | 9.53           | 1 11/32   | 1.344"          | 34.13          | 3 1/32    | 3.031"          | 76.99          |           | 6.299"          | 160            |
| 25/64     | 0.391"          | 9.92           | 1 3/8     | 1.375"          | 34.93          | 3 1/16    | 3.063"          | 77.79          | 6 1/2     | 6.500"          | 165.10         |
|           | 0.394"          | 10             |           | 1.378"          | 35             | 3 3/32    | 3.094"          | 78.58          |           | 6.693"          | 170            |
| 13/32     | 0.406"          | 10.32          | 1 13/32   | 1.406"          | 35.72          | 3 1/8     | 3.125"          | 79.38          | 6 3/4     | 6.750"          | 171.45         |
| 27/64     | 0.422"          | 10.72          | 1 7/16    | 1.438"          | 36.51          |           | 3.150"          | 80             | 7         | 7"              | 177.80         |
|           | 0.433"          | 11             | 1 15/32   | 1.469"          | 37.31          | 3 5/32    | 3.156"          | 80.17          |           | 7.087"          | 180            |
| 7/16      | 0.438"          | 11.11          | 1 1/2     | 1.500"          | 38.10          | 3 3/16    | 3.188"          | 80.96          |           | 7.480"          | 190            |
| 29/64     | 0.453"          | 11.51          | 1 17/32   | 1.531"          | 38.89          | 3 7/32    | 3.219"          | 81.76          | 7 1/2     | 7.500"          | 190.50         |
| 15/32     | 0.469"          | 11.91          | 1 9/16    | 1.563"          | 39.69          | 3 1/4     | 3.250"          | 82.55          |           | 7.874"          | 200            |
|           | 0.472"          | 12             |           | 1.575"          | 40             | 3 3/32    | 3.281"          | 83.34          | 8         | 8"              | 203.20         |
| 31/64     | 0.484"          | 12.30          | 1 19/32   | 1.594"          | 40.48          | 3 5/16    | 3.313"          | 84.14          | 8 1/2     | 8.500"          | 215.90         |
| 1/2       | 0.500"          | 12.70          | 1 5/8     | 1.625"          | 41.28          | 3 11/32   | 3.344"          | 84.93          | 9         | 9"              | 228.60         |
|           | 0.512"          | 13             | 1 21/32   | 1.656"          | 42.07          |           | 3.346"          | 85             | 9 1/2     | 9.500"          | 241.30         |
| 33/64     | 0.516"          | 13.10          | 1 11/16   | 1.688"          | 42.86          | 3 3/8     | 3.375"          | 85.73          |           | 9.843"          | 250            |
| 17/32     | 0.531"          | 13.49          | 1 23/32   | 1.719"          | 43.66          | 3 13/32   | 3.406"          | 86.52          | 10        | 10"             | 254.00         |
| 35/64     | 0.547"          | 13.89          | 1 3/4     | 1.750"          | 44.45          | 3 7/16    | 3.438"          | 87.31          | 11        | 11"             | 279.40         |
|           | 0.551"          | 14             |           | 1.772"          | 45             | 3 15/32   | 3.469"          | 88.11          |           | 11.811"         | 300            |
| 9/16      | 0.563"          | 14.29          | 1 25/32   | 1.781"          | 45.24          | 3 1/2     | 3.500"          | 88.90          | 12        | 12"             | 304.80         |
| 37/64     | 0.578"          | 14.68          | 1 13/16   | 1.813"          | 46.04          | 3 17/32   | 3.531"          | 89.69          | 13        | 13"             | 330.20         |
|           | 0.591"          | 15             | 1 27/32   | 1.844"          | 46.83          |           | 3.543"          | 90             |           | 13.780"         | 350            |
| 19/32     | 0.594"          | 15.08          | 1 7/8     | 1.875"          | 47.63          | 3 9/16    | 3.563"          | 90.49          | 14        | 14"             | 355.60         |
| 39/64     | 0.609"          | 15.48          | 1 29/32   | 1.906"          | 48.42          | 3 19/32   | 3.594"          | 91.28          | 15        | 15"             | 381.00         |
| 5/8       | 0.625"          | 15.88          | 1 15/16   | 1.938"          | 49.21          | 3 5/8     | 3.625"          | 92.08          |           | 15.748"         | 400            |
|           | 0.630"          | 16             |           | 1.969"          | 50             | 3 21/32   | 3.656"          | 92.87          | 16        | 16"             | 406.40         |
| 41/64     | 0.641"          | 16.27          | 1 31/32   | 1.969"          | 50.01          | 3 11/16   | 3.688"          | 93.66          | 17        | 17"             | 431.80         |
| 21/32     | 0.656"          | 16.67          | 2         | 2"              | 50.80          | 3 23/32   | 3.719"          | 94.46          |           | 17.717"         | 450            |
|           | 0.669"          | 17             | 2 1/32    | 2.031"          | 51.59          |           | 3.740"          | 95             | 18        | 18"             | 457.20         |
| 43/64     | 0.672"          | 17.07          | 2 1/16    | 2.063"          | 52.39          | 3 3/4     | 3.750"          | 95.25          | 19        | 19"             | 482.60         |
| 11/16     | 0.688"          | 17.46          | 2 3/32    | 2.094"          | 53.18          | 3 25/32   | 3.781"          | 96.04          |           | 19.685"         | 500            |
| 45/64     | 0.703"          | 17.86          | 2 1/8     | 2.125"          | 53.98          | 3 13/16   | 3.813"          | 96.84          | 20        | 20"             | 508.00         |
|           | 0.709"          | 18             | 2 5/32    | 2.156"          | 54.77          | 3 27/32   | 3.844"          | 97.63          |           |                 |                |

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| 25X75HHCS    | HHCS25X075   | 78   | BMU300     | BMU300     | 146  | SN37250  | W6-250SNWS  | 76   |
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| 31FW         | FW31         | 79   | CNT20025   | W2-4TL     | 74   | SN50112  | W8-112SNWS  | 76   |
| 31HN         | HN31         | 79   | CNT30037   | W2-6TL     | 74   | SN50137  | W8-137SNWS  | 76   |
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| 31X125RHMS   | RHMS31X125   | 78   | EB19A50    | W6446      | 202  | SN50212  | W8-212SNWS  | 76   |
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| 37X125HHCS   | HHCS37X125   | 78   | FEN31      | FEN31      | 79   | SSN25100 | W4-100SN    | 75   |
| 37X125RHMS   | RHMS37X125   | 78   | FEN37      | FEN37      | 79   | SSN25125 | W4-125SN    | 75   |
| 37X125SLHHCS | SLHHCS37X125 | 79   | FEN50      | FEN50      | 79   | SSN25127 | W4-112SN    | 75   |
| 37X150HHCS   | HHCS37X150   | 78   | FF100 *    | W6460      | 201  | SSN25137 | W4-137SN    | 75   |
| 37X150RHMS   | RHMS37X150   | 78   | FF200      | W6463      | 207  | SSN25150 | W4-150SN    | 75   |
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| 37X1HHCS     | HHCS37X100   | 78   | LL41NC     | W6445      | 206  | SSN25200 | W4-200SN    | 75   |
| 37X1RHMS     | RHMS37X100   | 78   | LL42       | W6469      | 206  | SSN31075 | W5-075SN    | 75   |
| 37X200HHCS   | HHCS37X200   | 78   | LL60       | W6402      | 201  | SSN31100 | W5-100SN    | 75   |
| 37X225FLMS   | FLMS37X225   | 78   | LLG1       | W6403      | 203  | SSN31125 | W5-125SN    | 75   |
| 37X225HHCS   | HHCS37X225   | 78   | RW25       | RW25       | 201  | SSN31150 | W5-150SN    | 75   |
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# Florida Strut to Wesanco

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# Florida Strut to Wesanco

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