PHOENIX®
SUPPORT SYSTEMS

# ENGINEERING CATALOG

Made in USA

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# PHOENIX®
SUPPORT SYSTEMS®

Made in USA

## We manufacture the highest quality strut accessories and spring steel products available today with the absolute best service and support in the industry.

*We proudly manufacture our products in the United States of America, and we understand what it means to meet and exceed the expectations of our customers. We inventory strut accessory products in all finishes and materials including 304 and 316 stainless steel.*

*Our dedication to domestic quality, competitive pricing, and unmatched service before, during, and after the sale come together to provide a customer experience unequaled in the industry.*

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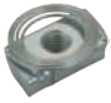
# General Information

PHOENIX® SUPPORT SYSTEMS

## Channel Nuts

| CNN [D] | CNS [D] | CNR [D] | CNL [D] | CND | CNT [D] | CNSQ | CNC | CNW |
|---|---|---|---|---|---|---|---|---|
| Most channel | 13/16" & 1" channel | 1 3/8" & 1 5/8 " channel | 2 7/16" & 3 1/4" channel | 1 3/8" & 1 5/8" channel | Most channel | Most channel | Most channel | Most channel |
| | | | | |  | | | |
| Pages 11, 13 | Pages 11, 13 | Pages 11, 13 | Pages 11, 13 | Page 11 | Pages 12 - 13 | Page 12 | Page 12 | Page 12 |

## Hardware

| HCS | HN | FW | RC | VRS | SW10 | SW11 | SW12 | SW13 |
|---|---|---|---|---|---|---|---|---|
| Hex Head Cap Screw | Hex Nut | Flat Washer | Rod Coupling | Rod Stiffener | Swivel Female | Swivel Male | Swivel Female to Female | Swivel Male to Female |
| | | | | | | | | |
| 1/4"–20 to 1/2"–13 | 1/4"–20 to 3/4"–10 | 1/4" to 3/4" | 1/4"–20 to 1/2"–13 | 3/8" to 5/8" | 3/8"–16 to 1/2"–13 | 3/8"–16 to 1/2"–13 | 3/8"–16 to 1/2"–13 | 3/8"–16 to 1/2"–13 |
| Page 14 | Page 14 | Page 14 | Page 14 | Page 14 | Page 15 | Page 15 | Page 15 | Page 15 |

## Strut Clamps

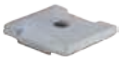
| SCR | SCU | SCE | SCH | SCC | SCO |
|---|---|---|---|---|---|
| Rigid Strut Clamp | Universal Strut Clamp | EMT Strut Clamp | One-Piece Strut Clamps | Copper Tubing Strut Clamp | O.D. Strut Clamp |
| | | | | | |
| 1/4" thru 12" - Page 16 | 1/2" thru 2" - Page 16 | 3/8" thru 2" - Page 17 | 3/8" thru 4" - Page 17 | 1/4" thru 6" - Page 17 | 1/4" thru 12 3/4" - Page 18 |

| CCT | CCP | CIT | CLC, CLE | SCP | PW 2500EP |
|---|---|---|---|---|---|
| Cushioned Tubing Strut Clamp | Cushioned Pipe Strut Clamp | Therma-Shield Clamp | Clutch Clamp for Tube and EMT Conduit | Cushioned Cable Strut Clamp | Cushioned Pipe Wrap |
| | | | | | |
| 1/4" thru 4 1/8" - Page 19 | 3/8" thru 5" - Page 19 | 3/8" thru 4 1/8" - Page 20 | 1/4" thru 1 1/8" - Page 20 | 3/8" thru 4 1/2" - Page 21 | 3/8" thru 8" - Page 22 |

## Conduit & Tubing Clamps

| PCH - Pipe and Conduit Hanger | TC1 - O.D. Tubing Clamp | PS2 - Pipe Strap |
|---|---|---|
| | | |
| 3/8" thru 4" - Page 23 | 1/4" thru 1" - Page 23 | 1/2" thru 12" - Page 23 |

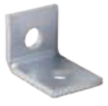
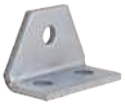
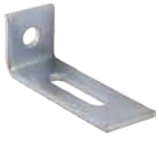
## Flat Fittings

| F09 thru F15 | F19 thru F24 | U70 | F30 | F31 | F32 | F33 | F34 |
|---|---|---|---|---|---|---|---|
| Square Washer | No Twist Square Washer | Saddle Washer | 2 Hole Splice Plate | 3 Hole Splice Plate | 4 Hole Splice Plate | 5 Hole Splice Plate | 2 Hole Parallel Splice Plate |
| |  | | | | | | |
| 1/4" thru 7/8" - Page 24 | 1/4" thru 3/4" - Page 24 | Page 24 | Page 24 | Page 24 | Page 24 | Page 25 | Page 25 |

## Flat Fittings (cont.)

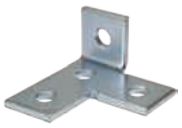
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **F35** 4 Hole Parallel Splice Plate Page 25 | **F36** 3 Hole Parallel Splice Plate Page 25 | **F40** 2 Hole Swivel Plate Page 25 | **F41** 3 Hole Swivel Plate Page 25 | **F50** 3 Hole Corner Plate Page 26 | **F51** 4 Hole Corner Plate Page 26 | **F52** 3 Hole Corner Gusset Plate Page 26 | **F53** 4 Hole Corner Gusset Plate Page 26 |
| **F54** 5 Hole Corner Gusset Plate Page 26 | **F60** 4 Hole Tee Plate Page 26 | **F61** 3 Hole Tee Gusset Plate Page 27 | **F62** 4 Hole Tee Gusset Plate Page 27 | **F63** 5 Hole Tee Gusset Plate Page 27 | **F70** 5 Hole Cross Plate Page 27 | **F71** 7 Hole Cross Gusset Plate Page 27 | |

## Angle Fittings

| | | | | | | |
|---|---|---|---|---|---|---|
| **L10** 2 Hole No Twist Corner Angle Page 28 | **L11** 2 Hole Corner Angle Page 28 | **L12** 3 Hole Corner Angle Page 28 | **L13** 4 Hole Corner Angle Page 28 | **L14** 2 Hole 3" Corner Angle Page 28 | **L15** 2 Hole 3½" Corner Angle Page 28 | **L16** 2 Hole 4" Corner Angle Page 29 |
| **L20** 2 Hole Cross Corner Angle  Page 29 | **L21** 3 Hole Corner Angle Page 29 | **L22** 3 Hole Cross Gusset Corner Angle  Page 29 | **L23** 5 Hole Cross Gusset Corner Angle Page 29 | **L24** 4 Hole Gusset Shelf Angle Page 29 | **L25** 4 Hole Gusset Corner Angle Page 30 | **L30** 3 Hole 3 Way Corner Angle Page 30 |
| **L31** 4 Hole 3 Way Corner Angle Page 30 | **L32** 4 Hole 3 Way Gusset Corner Angle Page 30 | **L33** 5 Hole 3 Way Gusset Corner Angle Page 30 | **L34** 7 Hole Universal Gusset Corner Angle Page 30 | **L35** 4 Hole Gusset Corner Angle Left Page 31 | **L36** 4 Hole Gusset Corner Angle Right Page 31 | **L40** 2 Hole 2⅝" Adjustable Corner Angle Page 31 |
| **L41** 2 Hole 4⅞" Adjustable Corner Angle  Page 31 | **L42** 2 Hole 6⅞" Adjustable Corner Angle Page 31 | **L43** 3 Hole Adjustable Corner Angle Page 31 | **L44** 2 Hole Adjustable Gusset Corner Angle Page 32 | **L45** 4 Hole 6⅝" Adjustable Gusset Corner Angle Page 32 | **L46** 4 Hole 8⅝"Adjustable Corner Angle Page 32 | **L50** 4 Hole Offset Corner Angle Page 32 |

PHOENIX® SUPPORT SYSTEMS

## Angle Fittings (cont.)

**L51**
4 Hole Offset Bent Tee (left hand)

Page 32

**L52**
4 Hole Offset Bent Tee (right hand)

Page 32

**L60**
2 Hole Open 45 Degree Corner Angle

Page 33

**L61**
2 Hole Closed 45° Corner Angle

Page 33

**L62**
4 Hole Open 45° Corner Angle

Page 33

**L63**
4 Hole Closed 45° Corner Angle

Page 33

**L64**
4 Hole Adjustable Corner Angle

Page 34

**L64H**
2 Hole Adjustable Angle Half

Page 34

**L65**
3 Hole Adjustable Corner Angle

Page 34

**L66**
2 Hole Adjustable Corner Angle

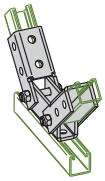
Page 34

**L66H**
1 Hole Adjustable Angle Half

Page 34

**L67**
Adjustable Brace Fitting

Page 35

**L68**
Double Adjustable Brace Fitting

Page 35

**L70**
3⅞" Corner Angle

Page 36

**L71**
5⅞" Corner Angle

Page 36

**L72**
7⅞" Corner Angle

Page 36

**L73**
9⅞" Corner Angle

Page 36

**L80 - L84**
8" - 24" Angle Brace

Page 37

## Beam Clamps

**BC10**
Beam Clamp Formed Steel

Page 38

**BC11**
Beam Clamp Formed Steel with J - Hook

3" thru 12" - Page 38

**BC12**
Swivel Nut for use with BC10, BC11 & BC14

¼" to ½" - Page 38

**BC13**
Beam Clamp Anchor Strap

9" thru 18" - Page 38

**BC14**
Beam Clamp Swivel Adapter for BC10

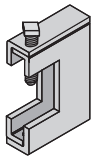
Page 38

**BC15**
Formed Steel Beam Clamp

¼" thru ½" - Page 39

**BC16**
Formed Steel Heavy Duty Beam Clamp

¼" thru ½" - Page 39

**BC17**
Formed Steel Heavy Duty Beam Clamp

¼" thru ½" - Page 39

**BC18**
Formed Steel Beam Clamp

¼" thru ½" - Page 39

**BC20, BC21**
Strut to Beam Clamp C-Type

⅜" to ½" - Page 40

**BC22**
Strut to Beam Clamp C-Type, Parallel

Page 40

**BC23**
Cable Tray Clamp

Page 40

**BC24**
Cable Tray Guide

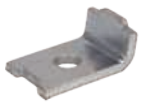
Page 40

**BC30**
Strut to Beam Clamp Z-Type

Page 40

**BC40**
Strut to Beam Clamp Window Type

Page 40

**BC70**
Strut to Beam Clamp Notched Type

Page 41

**SBB**
Side Beam Bracket

Page 41

**BC50**
Strut to Beam Spreader Caps

Page 41

**BC51**
Strut to Beam Spreader Caps

Page 41

**BC60**
Strut to Beam Clamp with Square U-Bolt

Page 42

**BC61**
Strut to Beam Clamp with Square U-Bolt

Page 42

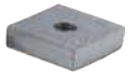
## Beam Clamps (cont.)

| | | | | | | |
|---|---|---|---|---|---|---|
| **BC62**<br>Strut to Beam Clamp, Square U-Bolt & J-Hook | **BC63**<br>Strut to Beam Clamp w/ Square U-Bolt & J-Hook | **BC64 & BC65**<br>Strut to Beam Clamp with Square U-Bolts | **BC66 & BC68**<br>Strut to Beam Clamp with Square U-Bolts | **BC69**<br>Strut to Beam Clamp with Square U-Bolts | **BC71**<br>Strut to Beam Clamp with Square U-Bolts | **BC80**<br>Malleable Iron Universal Beam Clamp. |
| | | | | | | |
| 4" thru 12" - Page 42 | 4" thru 12" - Page 42 | 4" thru 12" - Page 43 | 4" thru 12" - Page 43 | 4" thru 12" - Page 44 | 4" thru 12" - Page 44 | ⅜" to ¾" - Page 44 |
| **BC81**<br>Wide Mouth Malleable Iron Beam Clamp. | **RBS**<br>Retrofit Beam Clamp Retaining Strap | **RS**<br>Beam Clamp Retaining Strap | **BC90**<br>Malleable Iron Rod Support Beam Clamp. | **BC91**<br>Malleable Iron Universal Beam Clamp. | **BC92**<br>Light Duty Beam Clamp | **RA**<br>Right Angle Clamp |
| | | | | | | |
| ⅜" to ⅝" - Page 45 | 8" thru 16" - Page 45 | 8" thru 16" - Page 45 | ¼" to ½" - Page 46 | Page 46 | Page 46 | ½" to 4" - Page 46 |

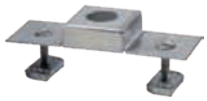
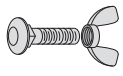
## Brackets

| | | | | | |
|---|---|---|---|---|---|
| **BR8R**<br>Slotted Shelf Bracket (RH) | **BR8L**<br>Slotted Shelf Bracket (LH) | **BR20**<br>Bracket 3 Hole | **BR21**<br>Bracket 6 Hole | **BR22**<br>Bracket with Brace 6 Hole | **BR30**<br>Bracket for 1⅝" Channel |
| | | | | | |
| 6" thru 18" - Page 47 | 6" thru 18" - Page 47 | 8½" thru 10½" - Page 47 | 12½" thru 14½" - Page 47 | 16½" thru 20½" - Page 48 | Page 48 |
| **BR31**<br>Bracket for 3¼" Channel | **BR40**<br>Bracket for 1⅝" Channel | **BR41**<br>Bracket 1⅝" Channel Wrap | **BR42**<br>Bracket Double 1⅝" Channel | **BR43**<br>Bracket Channel, Up | **BR44**<br>Bracket Channel, Down |
| | | | | | |
| Page 48 | 6" thru 24" - Page 48 | 6" thru 24" - Page 49 | 12" thru 36" - Page 49 | 6" thru 24" - Page 49 | 6" thru 24" - Page 49 |
| **BR45**<br>Bracket Channel | **BR46**<br>Bracket 1⅝" Channel 2 Hole Heavy | **BR47**<br>Ladder Bracket | **BR50**<br>Utility Pole Bracket Extended Standoff | **PB1**<br>Extended Riser Bracket | **PB5**<br>Standoff Riser Bracket |
| | | | | | |
| 12" thru 36" - Page 50 | 6" thru 24" - Page 50 | 6" thru 14" - Page 50 | Page 50 | Page 51 | Page 51 |

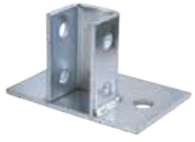
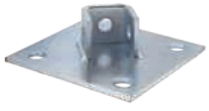
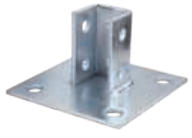
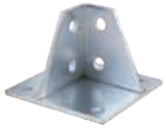
## Concrete Inserts

| | | | | | | |
|---|---|---|---|---|---|---|
| **CI**<br>Concrete Insert | **CIN**<br>Concrete Insert Nut | **CI20 - CI22**<br>Concrete End Cap Anchor for Channel | **EC07 - EC09**<br>Plastic End Cap | **EC10**<br>End Cap for 1⅝" 12 Ga. Channel | **EC11**<br>End Cap for 1⅝" 14 Ga. Channel | **EC12**<br>End Cap for 13/16" 14 Ga. Channel |
| |  | | | | | |
| Page 52 | Page 52 | Page 52 | Page 53 | Page 53 | Page 53 | Page 53 |

## Electrical

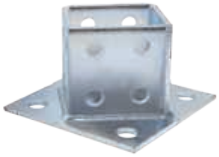
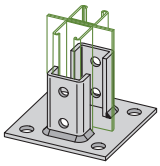
| | | | | | |
|---|---|---|---|---|---|
| **EF10**<br>Hinged Fluorescent Fixture Hanger 1⅝" Channel<br> <br>Page 54 | **EF11**<br>Hinged Fluorescent Fixture Hanger 3¼" Channel<br> <br>Page 54 | **EF12**<br>Hinged Fluorescent Fixture Hanger 1⅝" Channel<br> <br>Page 54 | **EF13**<br>Hinged Fluorescent Fixture Hanger 3¼" Channel<br> <br>Page 54 | **EF19**<br>Fixture Stud Nut<br> <br>Page 55 | **EF20**<br>End Cap Knock Out with Hardware<br> <br>Page 55 |
| **EF21**<br>Wiring Stud<br> <br>Page 55 | **EF22**<br>Conduit Connection Plate<br>  <br>Page 55 | **EF30**<br>Channel Splice 4 Hole Assembly with Tapped Plate<br> <br>Page 56 | **EF31**<br>Channel Splice 4 Hole Assembly with Stud Plate<br> <br>Page 56 | **EF33**<br>Inside Strut Joiner<br> <br>Page 56 | **EF40**<br>Outlet Box Bolt Down<br> <br>Page 56 |
| **EF41**<br>Junction Box Universal with 1 Connector<br> <br>Page 57 | **EF42**<br>Junction Box Universal with 2 Connectors at 90 Degrees<br> <br>Page 57 | **EF43**<br>Junction Box Universal with 2 Connectors Opposite<br> <br>Page 57 | **EF44**<br>Junction Box Universal with 3 Connectors<br> <br>Page 57 | **EF45**<br>Junction Box Universal with 4 Connectors<br> <br>Page 57 | **EF46**<br>¼" x ¾" Carriage Bolt and ¼" Wing Nut<br>  <br>Page 57 |

## Post Bases

| | | | | |
|---|---|---|---|---|
| **P10**<br>Post Base Single Channel 2 Hole Square 3½"<br> <br>Page 58 | **P11**<br>Post Base Single Channel 2 Hole Square Flush 3½"<br>  <br>Page 58 | **P12**<br>Post Base Single Channel 4 Hole Standard 1⅝"<br>  <br>Page 58 | **P13**<br>Post Base Single Channel 4 Hole Standard 3½"<br> <br>Page 58 | **P14**<br>Post Base Single Channel 4 Hole Square 3½"<br>  <br>Page 58 |
| **P15**<br>Post Base Single Channel Gusset 4 Hole Square 3½"<br>  <br>Page 58 | **P16**<br>Post Base Double Channel 1 Hole Square 1⅝"<br> <br>Page 59 | **P17**<br>Post Base Double Channel 2 Hole Square 3½" Boxed<br> <br>Page 59 | **P18**<br>Post Base Double Channel 4 Hole Standard 1⅝"<br> <br>Page 59 | **P19**<br>Post Base Double Channel 4 Hole Standard 3½"<br> <br>Page 59 |
| **P20**<br>Post Base Double Channel 4 Hole Square 3½"<br> <br>Page 60 | **P21**<br>Post Base Single Channel 2 Hole Flush 1⅝"<br> <br>Page 60 | **P22**<br>Post Base Single Channel 4 Hole Square 1⅝"<br> <br>Page 60 | **P23**<br>Post Base Double Channel 2 Hole Square Flush<br> <br>Page 60 | **P24**<br>Post Base Double Channel 2 Hole Square Flush<br> <br>Page 60 |

# General Information

## Post Bases

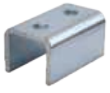
| P26 | P27 | P28 | P29 | P30 |
|---|---|---|---|---|
| Post Base Single Channel 2 Hole Square Flush | Post Base Four Channel Combinations 4-Hole Square | Post Base Double Channel 4 Hole Square | Post Base Double Channel 4 Hole | Post Base Double Channel 4 Hole Square |
| |  | | |  |
| Page 60 | Page 61 | Page 61 | Page 61 | Page 61 |

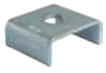
## Rollers

| R10 | R11 | R20 | R21 | R22 | R23 |
|---|---|---|---|---|---|
| Roller Trolley 2 Bearing | Roller Trolley 4 Bearing | Pipe Roller 1" - 4" Pipe | Pipe Roller | Pipe Roller Heavy Duty | Pipe Roller Heavy Duty |
| | | | | | |
| Page 62 | Page 62 | Pages 62 - 63 | Pages 62 - 63 | Pages 62 & 64 | Pages 62 & 64 |

## U Fittings

| U10 | U11 | U12 | U13 | U14 | U15 | U16 | U20 |
|---|---|---|---|---|---|---|---|
| Cross 3 Hole 13/16" | Cross 5 Hole 1 5/8" | Cross 3 Hole 2 7/16" | Cross 3 Hole 3 1/4" | Cross 3 Hole 4 7/8" | Cross 8 Hole 1 5/8" | Cross 6 Hole 1 5/8" Double Channel | Cross 1 Hole 2 Slot |
| | | | | | | | |
| Page 65 | Page 65 | Page 65 | Page 65 | Page 65 | Page 65 | Page 66 | Page 66 |

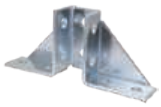
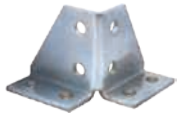
| U21 | U22 | U30 | U31 | U32 | U33 | U34 | U35 |
|---|---|---|---|---|---|---|---|
| Cross 1 Hole 2 Slot | Cross 1 Hole 2 Slot | Splice 2 Hole 1 5/8" | Splice 3 Hole 1 5/8" | Splice 4 Hole 1 5/8" | Splice 4 Hole 13/16" | Splice 2 Hole 13/16" | Splice 4 Hole 2 7/16" |
| | |  | | | | | |
| Page 66 | Page 66 | Page 66 | Page 66 | Page 67 | Page 67 | Page 67 | Page 67 |

| U36 | U40 | U41 | U50 | U60 | U70 |
|---|---|---|---|---|---|
| Splice 4 Hole 3 1/4" Channel | Trolley Support 3 Hole Standard | Trolley Support 3 Hole Heavy Duty | 4 Hole Cup Support | Clevis 2 Hole | Saddle Washer |
| | | | | |  |
| Page 67 | Page 67 | Page 68 | Page 68 | Page 68 | Page 68 |

## Wing Fittings

| W10 | W11 | W12 | W13 | W14 | W15 | W16 | W17 |
|---|---|---|---|---|---|---|---|
| Single 2 Hole Right | Single 2 Hole Left | Single 4 Hole Right | Single 4 Hole Left | Single 6 Hole Right | Single 6 Hole Left | Single 6 Hole Right | Single 6 Hole Left |
| | | | | | | | |
| Page 68 | Page 68 | Page 69 | Page 69 | Page 69 | Page 69 | Page 69 | Page 69 |

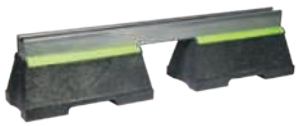
## Wing Fittings (cont.)

| | | | | | | |
|---|---|---|---|---|---|---|
| **W20** Double 4 Hole Page 70 | **W21** Double Corner 6 Hole Page 70 | **W22** Double Corner 8 Hole Page 70 | **W23** Double 8 Hole Gusset Page 70 | **W24** Double Corner 8 Hole Page 70 | **W30** Corner Connector 5 Hole Page 70 | **W31** Corner Connector 8 Hole Page 71 |
| **W32** Connector 10 Hole Page 71 | **W33** Connector 10 Hole  Page 71 | **W40** Triple Corner 6 Hole Page 71 | **W41** Triple Corner 9 Hole Page 71 | **W42** Triple Corner 12 Hole Page 71 | **W43** Triple 12 Hole Gusset Page 72 | **W50** Double Conn. 8 Hole  Page 72 |

## Z Fittings

| | | | | | |
|---|---|---|---|---|---|
| **Z10** Cross 2 Hole 13/16" Page 73 | **Z11** Cross 2 Hole 1 5/8" Page 73 | **Z12** Cross 2 Hole 2 7/16" Page 73 | **Z13** Cross 2 Hole 3 1/4" Page 73 | **Z14** Cross 2 Hole 1" Page 73 | **Z20** Offset Support 2 Hole Page 73 |
| **Z30** 2 Hole Support 4" Page 74 | **Z31** 2 Hole Support 5" Page 74 | **Z32** 2 Hole Support 6" Page 74 | **Z33** 2 Hole Support 7" Page 74 | **Z34** 2 Hole Support 8" Page 74 | **Z40** Channel Hanger 13/16" Page 74 |
| **Z41** Channel Hanger 1 5/8" Page 75 | **Z42** Channel Hanger 2 7/16" Page 75 | **Z43** Channel Hanger 3 1/4" Page 75 | **Z50** Corner Brace 3 Hole Page 75 | **Z51** Corner Brace 8 Hole Page 75 | **Z60** Slotted Support Page 75 |

## Rooftop Support Blocks

| | | |
|---|---|---|
| **RSB** Rooftop Support Block Plain Base Page 76 | **RSB** Rooftop Support Block with 13/16", 1 5/8", & 2 7/16" Channel Page 77 | **RSB- Bridge Series** Rooftop Support Blocks with 1 5/8" Channel  Page 77 |

## Products Also Available

**Electrical Fastening & Support Products**

Pages 78 - 83


Dimension Information for R20, R21, R22 & R23 ..... 63 - 64
Outside Diameter of Standard Pipe and Tubing ..... 84
Strut Clamp Sizing By Outside Diameter ..... 85
General Information ..... 86 - 87
Alphabetical Product Index ..... 88 - 89
Terms and Conditions of Sale ..... 90

## MATERIAL SPECIFICATIONS AND FINISHES:

Note: Specifications subject to change without notice.

**Carbon Steel** – ASTM A1011-00 SS GR 33 or ASTM A1011-00CS Type B

**304 Stainless Steel** – ASTM A240 (Type 304)

**316 Stainless Steel** – ASTM A240 (Type 316)

**316 Stainless Steel Nuts** – ASTM A276-03

**Aluminum** – ASTM B209 (Type 5052-H32)

**PL – Uncoated Carbon Steel**

There is no coating on the steel except a possibility of some oil left on the part from the pickle and oil or fabrication process.

**EG – Electroplated Zinc also known as Electro-Galvanized**

This coating is standard for most Phoenix 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. This coating is recommended for relatively dry indoor use. The thickness of zinc applied in this method is between 0.2 mils to 0.5 mils [5.1 µm to 12.7 µm].

**HD – Hot Dip Galvanized After Fabrication**

The steel is zinc coated by hot dipping the fabricated product. The product is dipped in molten zinc and is completely covered on all surfaces. This coating is generally recommended for outdoor use. The coating meets either ASTM A123 with a 2.6 mils [65 µm] minimum average thickness or ASTM A153 with a 2.2 mils [56 µm] minimum average thickness.

**YC – Yellow Zinc Dichromate**

A 0.2 mil [5 µm] electro-galvanized zinc plating finished with a yellowish dichromate coating which meets ASTM B633 SC1 Type II. This yellowish colored coating improves corrosion resistance over colorless coatings, acts as a non-porous barrier and can be painted.

**CP – Copper Zinc Dichromate**

A 0.2 mil [5 µm] electro-galvanized zinc plating finished with a copper dichromate coating which meets ASTM B633 SC1 Type II. This copper colored coating improves corrosion resistance over colorless coatings and acts as a non-porous barrier that does not react adversely with copper pipe or tubing.

**PC & GN - Powder Coat (Special Order)**

A Polyester powder coating is electrostatically applied after fabrication. The powder is then baked on creating a 1.38 to 1.77 mil [35 – 45 µm] thick coating. The hardness of this coating meets ASTM D-3363-74, the impact rating meets ASTM D-2794-93 and the gloss meets ASTM D-523-85. This creates a coating that is resistant to chipping, peeling and corrosion. Available in many colors by special order

# Channel Nuts

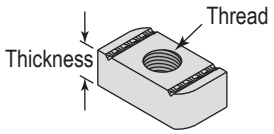
Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

PHOENIX® SUPPORT SYSTEMS

## CNN

Channel Nut No Spring

*For all channel sizes except as noted*



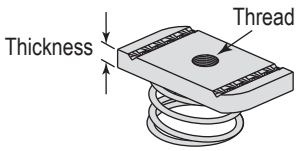

| Catalog Number | Thread Size | Thickness | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| CNN20010EG | 10-24 | 0.25 | 6.3 | 0.096 |
| CNN20025EG | ¼"–20 | 0.25 | 6.3 | 0.096 |
| CNN30031EG | 5/16"–18 | 0.37 | 9.4 | 0.096 |
| CNN30037EG | ⅜"–16 | 0.37 | 9.4 | 0.084 |
| CNN30050EG | ½"–13 | 0.37 | 9.4 | 0.076 |
| CNN30M10EG | M10 | 0.37 | 9.4 | 0.076 |
| *CNN40050EG | ½"–13 | 0.50 | 12.7 | 0.108 |
| *CNN40M12EG | M12 | 0.50 | 12.7 | 0.108 |
| CNN30062EG | ⅝"–11 | 0.37 | 9.4 | 0.097 |
| *CNN40062EG | ⅝"–11 | 0.50 | 12.7 | 0.130 |
| CNN30075EG | ¾"–10 | 0.37 | 9.4 | 0.103 |
| *CNN40075EG | ¾"–10 | 0.50 | 12.7 | 0.127 |
| *CNN40087EG | ⅞"–9 | 0.50 | 12.7 | 0.125 |

*Cannot be used with 13/16" channel

## CNS

Channel Nut Short Spring

*For 13/16" & 1" channel*

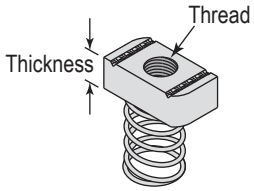



| Catalog Number | Thread Size | Thickness | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| CNS20010EG | 10-24 | 0.25 | 6.3 | 0.060 |
| CNS20025EG | ¼"–20 | 0.25 | 6.3 | 0.068 |
| CNS20031EG | 5/16"–18 | 0.25 | 6.3 | 0.068 |
| CNS30031EG | 5/16"–18 | 0.37 | 9.4 | 0.092 |
| CNS20037EG | ⅜"–16 | 0.25 | 6.3 | 0.06 |
| CNS30037EG | ⅜"–16 | 0.37 | 9.4 | 0.088 |
| CNS30050EG | ½"–13 | 0.37 | 9.4 | 0.087 |
| CNS30062EG | ⅝"–11 | 0.37 | 9.4 | 0.104 |

## CNR

Channel Nut Regular Spring

*For 1⅜" & 1⅝" channel*

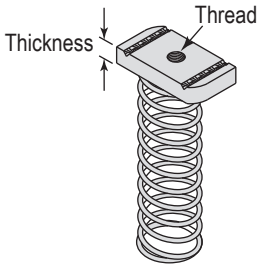



| Catalog Number | Thread Size | Thickness | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| CNR20010EG | 10-24 | 0.25 | 6.3 | 0.066 |
| CNR20025EG | ¼"–20 | 0.25 | 6.3 | 0.072 |
| CNR20031EG | 5/16"–18 | 0.25 | 6.3 | 0.072 |
| CNR30031EG | 5/16"–18 | 0.37 | 9.4 | 0.0925 |
| CNR20037EG | ⅜"–16 | 0.25 | 6.3 | 0.066 |
| CNR30037EG | ⅜"–16 | 0.37 | 9.4 | 0.093 |
| CNR30M10EG | M10 | 0.37 | 9.4 | 0.093 |
| CNR30050EG | ½"–13 | 0.37 | 9.4 | 0.084 |
| CNR40M12EG | M12 | 0.50 | 12.7 | 0.108 |
| CNR40050EG | ½"–13 | 0.50 | 12.7 | 0.108 |
| CNR40062EG | ⅝"–11 | 0.50 | 12.7 | 0.162 |
| CNR40075EG | ¾"–10 | 0.50 | 12.7 | 0.137 |
| CNR40087EG | ⅞"–9 | 0.50 | 12.7 | 0.114 |

## CNL

Channel Nut Long Spring

*For 2 7/16" & 3¼" channel*

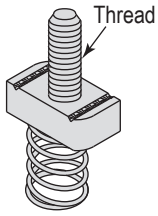



| Catalog Number | Thread Size | Thickness | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| CNL20025EG | ¼"–20 | 0.25 | 6.3 | 0.10 |
| CNL30037EG | ⅜"–16 | 0.37 | 9.4 | 0.10 |
| CNL40050EG | ½"–13 | 0.50 | 12.7 | 0.11 |

## CND

Channel Stud Nut Regular Spring

*For 1⅜" & 1⅝" channel*




| Catalog Number | Thread Size | Stud Length | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| CND25100EG | ¼"–20 | 1" | 25.4 | 0.08 |
| CND25137EG | ¼"–20 | 1⅜" | 34.9 | 0.09 |
| CND25150EG | ¼"–20 | 1½" | 38.1 | 0.09 |
| CND37100EG | ⅜"–16 | 1" | 25.4 | 0.13 |
| CND37112EG | ⅜"–16 | 1⅛" | 28.6 | 0.13 |
| CND37125EG | ⅜"–16 | 1¼" | 31.8 | 0.14 |
| CND37150EG | ⅜"–16 | 1½" | 38.1 | 0.15 |
| CND37162EG | ⅜"–16 | 1⅝" | 41.3 | 0.16 |
| CND37212EG | ⅜"–16 | 2⅛" | 54.0 | 0.16 |
| CND50100EG | ½"–13 | 1" | 25.4 | 0.14 |
| CND50125EG | ½"–13 | 1¼ | 31.8 | 0.15 |
| CND50150EG | ½"–13 | 1½" | 38.1 | 0.17 |
| CND50200EG | ½"–13 | 2" | 50.8 | 0.19 |



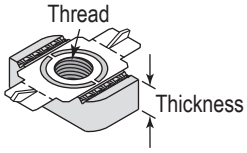


**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## CNSQ

Channel Squeeze Nut

*For all channel sizes*

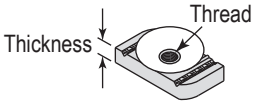



| Catalog Number | Thread Size | Thickness | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| CNSQ2025EG | ¼"–20 | 0.25 | 9.4 | 0.093 |
| CNSQ3037EG | ⅜"–16 | 0.25 | 9.4 | 0.093 |
| CNSQ3050EG | ½"–13 | 0.25 | 9.4 | 0.092 |

## CNC

Channel Cone Nut

*For all channel sizes*

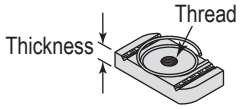



| Catalog Number | Thread Size | Thickness | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| CNC30025EG | ¼"–20 | 0.37 | 9.4 | 0.093 |
| CNC30037EG | ⅜"–16 | 0.37 | 9.4 | 0.093 |
| CNC30050EG | ½"–13 | 0.37 | 9.4 | 0.092 |

## CNT

Channel Nut Top Spring

*For all channel sizes except as noted*

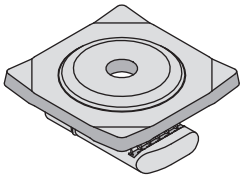


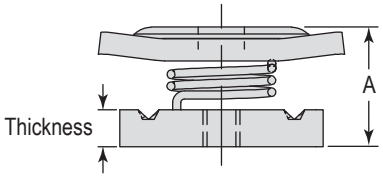

| Catalog Number | Thread Size | Thickness | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| CNT20025EG | ¼"–20 | 0.25 | 6.3 | 0.093 |
| CNT30037EG | ⅜"–16 | 0.37 | 9.4 | 0.093 |
| CNT30050EG | ½"–13 | 0.37 | 9.4 | 0.092 |
| *CNT40050EG | ½"–13 | 0.50 | 12.7 | 0.101 |

**Cannot be used with 13⁄16" channel*

## CNW

Combo Nut Washer






| Catalog Number | Thread Size | Nut Thickness | | A | | Wt. lbs |
|---|---|---|---|---|---|---|
| | | in | mm | in | mm | |
| CNW30025EG | ¼"–20 | 0.37 | 9.4 | 0.81 | 20.6 | 0.120 |
| CNW30037EG | ⅜"–16 | 0.37 | 9.4 | 0.81 | 20.6 | 0.113 |
| * CNW40050EG | ½"–13 | 0.50 | 12.7 | 0.91 | 23.1 | 0.130 |

** Cannot be used with 13⁄16" channel*



**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

# Domestic Channel Nuts

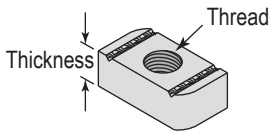
Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

PHOENIX® SUPPORT SYSTEMS

## CNN [D]

Channel Nut No Spring

*For all channel sizes except as noted*



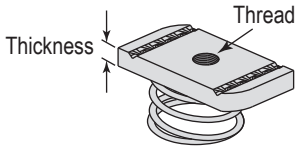

| Catalog Number | Thread Size | Thickness | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| CNN2D025EG | 1/4"–20 | 0.25 | 6.3 | 0.061 |
| CNN3D031EG | 5/16"–18 | 0.37 | 9.4 | 0.096 |
| CNN3D037EG | 3/8"–16 | 0.37 | 9.4 | 0.084 |
| CNN3D050EG | 1/2"–13 | 0.37 | 9.4 | 0.076 |
| *CNN4D050EG | 1/2"–13 | 0.50 | 12.7 | 0.108 |
| CNN3D062EG | 5/8"–11 | 0.37 | 9.4 | 0.097 |
| *CNN4D062EG | 5/8"–11 | 0.50 | 12.7 | 0.130 |
| CNN3D075EG | 3/4"–10 | 0.37 | 9.4 | 0.103 |
| *CNN4D075EG | 3/4"–10 | 0.50 | 12.7 | 0.127 |
| *CNN4D087EG | 7/8"–9 | 0.50 | 12.7 | 0.125 |

**Cannot be used with 13/16" channel*

## CNS [D]

Channel Nut Short Spring

*For 13/16" & 1" channel*

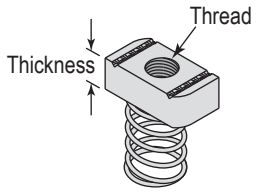



| Catalog Number | Thread Size | Thickness | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| CNS2D025EG | 1/4"–20 | 0.25 | 6.3 | 0.068 |
| CNS2D031EG | 5/16"–18 | 0.25 | 6.3 | 0.068 |
| CNS3D031EG | 5/16"–18 | 0.37 | 9.4 | 0.092 |
| CNS2D037EG | 3/8"–16 | 0.25 | 6.3 | 0.070 |
| CNS3D037EG | 3/8"–16 | 0.37 | 9.4 | 0.088 |
| CNS3D050EG | 1/2"–13 | 0.37 | 9.4 | 0.087 |
| CNS3D062EG | 5/8"–11 | 0.37 | 9.4 | 0.104 |

## CNR [D]

Channel Nut Regular Spring

*For 1 3/8" & 1 5/8" channel*

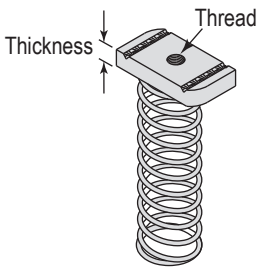



| Catalog Number | Thread Size | Thickness | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| CNR2D025EG | 1/4"–20 | 0.25 | 6.3 | 0.072 |
| CNR2D031EG | 5/16"–18 | 0.25 | 6.3 | 0.072 |
| CNR3D031EG | 5/16"–18 | 0.37 | 9.4 | 0.093 |
| CNR2D037EG | 3/8"–16 | 0.25 | 6.3 | 0.066 |
| CNR3D037EG | 3/8"–16 | 0.37 | 9.4 | 0.093 |
| CNR3D050EG | 1/2"–13 | 0.37 | 9.4 | 0.084 |
| CNR4D050EG | 1/2"–13 | 0.50 | 12.7 | 0.108 |
| CNR4D062EG | 5/8"–11 | 0.50 | 12.7 | 0.162 |
| CNR4D075EG | 3/4"–10 | 0.50 | 12.7 | 0.137 |
| CNR4D087EG | 7/8"–9 | 0.50 | 12.7 | 0.114 |

## CNL [D]

Channel Nut Long Spring

*For 2 7/16" & 3 1/4" channel*

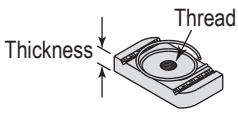



| Catalog Number | Thread Size | Thickness | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| CNL2D025EG | 1/4"–20 | 0.25 | 6.3 | 0.68 |
| CNL3D037EG | 3/8"–16 | 0.37 | 9.4 | 0.10 |
| CNL4D050EG | 1/2"–13 | 0.50 | 12.7 | 0.11 |

## CNT [D]

Channel Nut Top Spring

*For all channel sizes except as noted*




| Catalog Number | Thread Size | Thickness | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| CNT2D025EG | 1/4"–20 | 0.25 | 6.3 | 0.092 |
| CNT3D037EG | 3/8"–16 | 0.37 | 9.4 | 0.093 |
| CNT3D050EG | 1/2"–13 | 0.37 | 9.4 | 0.092 |
| *CNT4D050EG | 1/2"–13 | 0.50 | 12.7 | 0.101 |

**Cannot be used with 13/16" channel*





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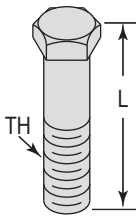
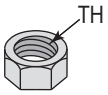
## HCS
Hex Head Cap Screw



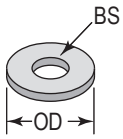

| Catalog Number | Thread Size | Length | Wt. lbs |
|---|---|---|---|
| HCS2507EG | ¼"–20 | ¾" | 0.015 |
| HCS2510EG | ¼"–20 | 1" | 0.018 |
| HCS2512EG | ¼"–20 | 1¼" | 0.021 |
| HCS2515EG | ¼"–20 | 1½" | 0.024 |
| HCS3707EG | ⅜"–16 | ¾" | 0.036 |
| HCS3710EG | ⅜"-16 | 1" | 0.042 |
| HCS3712EG | ⅜"-16 | 1¼" | 0.049 |
| HCS3715EG | ⅜"–16 | 1½" | 0.056 |
| HCS3720EG | ⅜"–16 | 2" | 0.072 |
| HCS5010EG | ½"–13 | 1" | 0.092 |
| HCS5012EG | ½"–13 | 1¼" | 0.104 |
| HCS5015EG | ½"–13 | 1½" | 0.116 |
| HCS5017EG | ½"–13 | 1¾" | 0.130 |
| HCS5020EG | ½"–13 | 2" | 0.144 |

## HN
Hex Nut



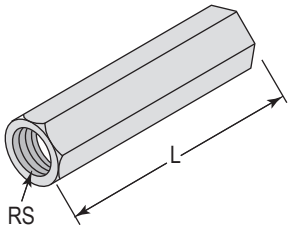

| Catalog Number | Thread Size | Wt. lbs |
|---|---|---|
| HN0025EG | ¼"–20 | 0.009 |
| HN0037EG | ⅜"–16 | 0.016 |
| HN0050EG | ½"–13 | 0.038 |
| HN0062EG | ⅝"-11 | 0.073 |
| HN0075EG | ¾"–10 | 0.119 |

## FW
Flat Washer



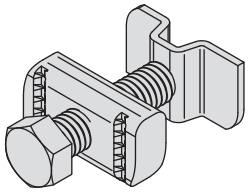

| Catalog Number | BS in | OD | | Wt. lbs |
|---|---|---|---|---|
| | | in | mm | |
| FW0025EG | ¼" | ¾" | 19.0 | 0.008 |
| FW0037EG | ⅜" | 1" | 25.4 | 0.015 |
| FW0050EG | ½" | 1⅜" | 34.9 | 0.039 |
| FW0062EG | ⅝" | 1¾" | 44.4 | 0.077 |
| FW0075EG | ¾" | 2 | 50.8 | 0.110 |

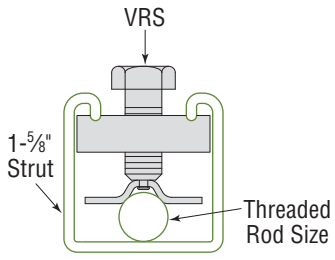
## RC
Rod Coupling




| Catalog Number | RS | L | | Hex Size | Wt. lbs |
|---|---|---|---|---|---|
| | | in | mm | | |
| RC0025EG | ¼"–20 | ⅞ | 22.2 | ⅜" | .03 |
| RC0037EG | ⅜"–16 | 1¾ | 44.4 | 9⁄16" | .08 |
| RC0050EG | ½"-13 | 1¾ | 44.4 | 11⁄16" | .12 |

## VRS
Rod Stiffener



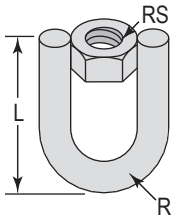



| Catalog Number | Size | Rod Size | | Root Area in² | Radius of Gyaration in. | Design Load | |
|---|---|---|---|---|---|---|---|
| | | in | mm | | | lbs | kN |
| VRS 0000EG | ⅜" - ⅝" | ⅜" | 9.5 | 0.068 | 0.074 | 730 | 3.3 |
| | | ½" | 12.7 | 0.126 | 0.100 | 1,350 | 6.0 |
| | | ⅝" | 15.9 | 0.202 | 0.127 | 2,160 | 9.6 |



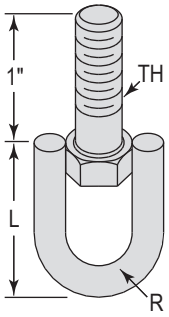
**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## SW10
Swivel Female



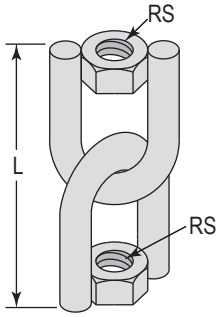

| Catalog Number | Wt. Lbs | RS | L | | R | | Design Load | |
|---|---|---|---|---|---|---|---|---|
| | | | in | mm | in | mm | lbs | kN |
| SW100037EG | 0.13 | 3/8"–16 | 1 3/4 | 44.4 | 1/4 | 6.3 | 620 | 2.76 |
| SW100050EG | 0.17 | 1/2"–13 | 2 | 50.8 | 3/8 | 9.4 | 1150 | 5.12 |

## SW11
Swivel Male



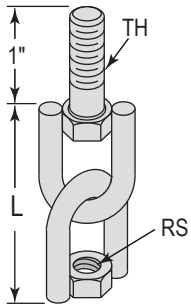

| Catalog Number | Wt. Lbs | TH | L | | R | | Design Load | |
|---|---|---|---|---|---|---|---|---|
| | | | in | mm | in | mm | lbs | kN |
| SW110037EG | 0.15 | 3/8"–16 | 1 3/4 | 44.4 | 1/4 | 6.3 | 620 | 2.76 |
| SW110050EG | 0.20 | 1/2"–13 | 2 | 50.8 | 3/8 | 9.4 | 1150 | 5.12 |

## SW12
Swivel Female – Female




| Catalog Number | Wt. Lbs | RS | L | | Design Load | |
|---|---|---|---|---|---|---|
| | | | in | mm | lbs | kN |
| SW120037EG | 0.26 | 3/8"–16 | 2-3/4 | 69.8 | 620 | 2.76 |
| SW120050EG | 0.33 | 1/2"–13 | 3 | 76.2 | 1150 | 5.12 |

## SW13
Swivel Male – Female




| Catalog Number | Wt. Lbs | TH | RS | L | | Design Load | |
|---|---|---|---|---|---|---|---|
| | | | | in | mm | lbs | kN |
| SW130037EG | 0.28 | 3/8"–16 | 3/8"–16 | 2-3/4 | 69.8 | 620 | 2.76 |
| SW130050EG | 0.37 | 1/2"–13 | 1/2"–13 | 3 | 76.2 | 1150 | 5.12 |



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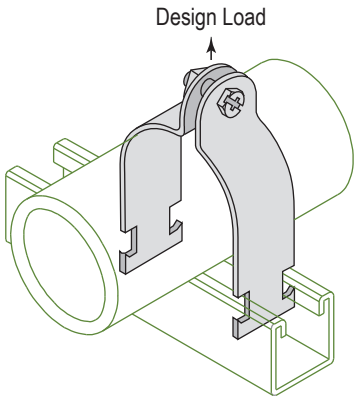
## SCR

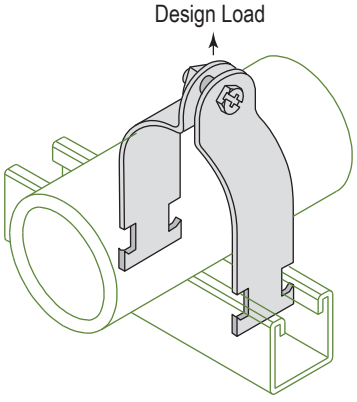
Rigid Strut Clamp




| Catalog Number | Pipe Size | | O.D. | | Design Load | | Wt. lbs |
|---|---|---|---|---|---|---|---|
| | in | mm | in | mm | lbs | kN | |
| SCR0025EG | ¼ | 6 | 0.540 | 13.7 | 400 | 1.78 | 0.09 |
| SCR0037EG | ⅜ | 10 | 0.675 | 17.1 | 400 | 1.78 | 0.09 |
| SCR0050EG | ½ | 15 | 0.840 | 21.3 | 400 | 1.78 | 0.10 |
| SCR0075EG | ¾ | 20 | 1.050 | 26.7 | 600 | 2.67 | 0.13 |
| SCR0100EG | 1 | 25 | 1.315 | 33.4 | 600 | 2.67 | 0.15 |
| SCR0125EG | 1¼ | 32 | 1.660 | 42.2 | 600 | 2.67 | 0.17 |
| SCR0150EG | 1½ | 40 | 1.900 | 48.3 | 800 | 3.56 | 0.29 |
| SCR0200EG | 2 | 50 | 2.375 | 60.3 | 800 | 3.56 | 0.33 |
| SCR0250EG | 2½ | 65 | 2.875 | 73.0 | 800 | 3.56 | 0.39 |
| SCR0300EG | 3 | 80 | 3.500 | 88.9 | 800 | 3.56 | 0.43 |
| SCR0350EG | 3½ | 90 | 4.000 | 101.6 | 1000 | 4.45 | 0.57 |
| SCR0400EG | 4 | 100 | 4.500 | 114.3 | 1000 | 4.45 | 0.62 |
| SCR0500EG | 5 | 125 | 5.562 | 141.3 | 1000 | 4.45 | 0.73 |
| SCR0600EG | 6 | 150 | 6.625 | 168.3 | 1000 | 4.45 | 0.85 |
| SCR0800EG | 8 | 200 | 8.625 | 219.1 | 1000 | 4.45 | 1.07 |
| SCR1000EG | 10 | 250 | 10.750 | 273.1 | 1000 | 4.45 | 1.27 |
| SCR1200EG | 12 | 300 | 12.750 | 323.9 | 1000 | 4.45 | 1.49 |

## SCU

Universal Strut Clamp




| Catalog Number | Clamp Size | | O.D. | | Design Load | | Wt. lbs |
|---|---|---|---|---|---|---|---|
| | in | mm | in | mm | lbs | kN | |
| SCU0050EG | ½ | 15 | 0.773 | 19.6 | 400 | 1.78 | 0.10 |
| SCU0075EG | ¾ | 20 | 0.986 | 25.0 | 600 | 2.67 | 0.13 |
| SCU0100EG | 1 | 25 | 1.239 | 31.5 | 600 | 2.67 | 0.15 |
| SCU0125EG | 1¼ | 32 | 1.585 | 40.3 | 600 | 2.67 | 0.17 |
| SCU0150EG | 1½ | 40 | 1.820 | 45.7 | 800 | 3.56 | 0.29 |
| SCU0200EG | 2 | 50 | 2.286 | 58.1 | 800 | 3.56 | 0.34 |

** These clamps are designed to fit both pipe (rigid conduit) and thin walled tubing (EMT) in the corresponding sizes.*



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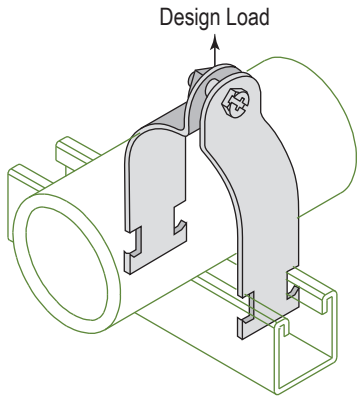
# Strut Clamps

Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

PHOENIX® SUPPORT SYSTEMS

## SCE

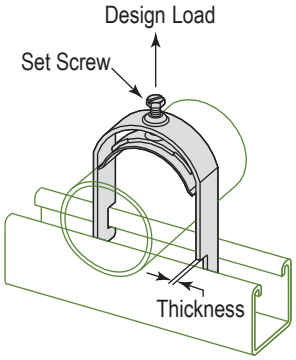
EMT Strut Clamp




| Catalog Number | EMT Size | | O.D. | | Design Load | | Wt. lbs |
|---|---|---|---|---|---|---|---|
| | in | mm | in | mm | lbs | kN | |
| SCE0037EG | 3/8 | 10 | 0.557 | 14.2 | 400 | 1.78 | 0.09 |
| SCE0050EG | 1/2 | 15 | 0.706 | 17.9 | 400 | 1.78 | 0.10 |
| SCE0075EG | 3/4 | 20 | 0.922 | 23.4 | 400 | 1.78 | 0.11 |
| SCE0100EG | 1 | 25 | 1.163 | 29.5 | 600 | 2.67 | 0.14 |
| SCE0125EG | 1 1/4 | 32 | 1.510 | 38.4 | 600 | 2.67 | 0.16 |
| SCE0150EG | 1 1/2 | 40 | 1.740 | 44.2 | 800 | 3.56 | 0.26 |
| SCE0200EG | 2 | 50 | 2.197 | 55.8 | 800 | 3.56 | 0.32 |

## SCH

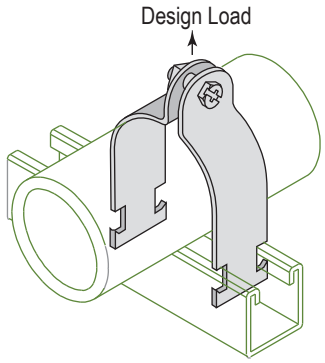
One Piece Universal Strut Clamps




| Catalog Number | EMT Size in (mm) | Rigid Conduit Size in (mm) | Thickness | Design Load Lbs. | Wt. lbs |
|---|---|---|---|---|---|
| SCH 0037EG | 3/8 (10) | – – | 16 Ga. (1.5) | 200 | 7.0 |
| SCH 0050EG | 1/2 (15) | – – | 16 Ga. (1.5) | 200 | 7.4 |
| SCH 0075EG | 3/4 (20) | 1/2 (15) | 16 Ga. (1.5) | 200 | 8.0 |
| SCH 0100EG | 1 (25) | 3/4 (20) | 14 Ga. (1.9) | 300 | 11.0 |
| SCH 0125EG | 1 1/4 (32) | 1 (25) | 14 Ga. (1.9) | 300 | 12.5 |
| SCH 0150EG | 1 1/2 (40) | 1 1/4 (32) | 12 Ga. (2.6) | 400 | 20.5 |
| SCH 0200EG | 2 (50) | 1 1/2 (40) | 12 Ga. (2.6) | 400 | 21.5 |
| SCH 020REG | – – | 2 (50) | 12 Ga. (2.6) | 400 | 22.7 |
| SCH 0250EG | 2 1/2 (65) | 2 1/2 (65) | 12 Ga. (2.6) | 400 | 26.0 |
| SCH 0300EG | 3 (80) | 3 (80) | 12 Ga. (2.6) | 400 | 30.2 |
| SCH 0350EG | 3 1/2 (90) | 3 1/2 (90) | 12 Ga. (2.6) | 400 | 33.3 |
| SCH 0400EG | 4 (100) | 4 (100) | 12 Ga. (2.6) | 400 | 36.6 |

## SCC

Copper Tubing Strut Clamp




*Standard finish for model SCC is Copper Zinc Dichromate which has a copper color to identify product for use with copper tubing. For further information see coating specifications (page 10).*

| Catalog Number | Tubing Size | | O.D | | Design Load | | Wt. lbs |
|---|---|---|---|---|---|---|---|
| | in | mm | in | mm | lbs | kN | |
| SCC 0025CP | 1/4 | 6 | 0.375 | 9.5 | 400 | 1.78 | 0.08 |
| SCC 0037CP | 3/8 | 10 | 0.500 | 12.7 | 400 | 1.78 | 0.09 |
| SCC 0050CP | 1/2 | 15 | 0.625 | 15.9 | 400 | 1.78 | 0.10 |
| SCC 0075CP | 3/4 | 20 | 0.875 | 22.2 | 400 | 1.78 | 0.11 |
| SCC 0100CP | 1 | 25 | 1.125 | 28.6 | 600 | 2.67 | 0.14 |
| SCC 0125CP | 1 1/4 | 32 | 1.375 | 34.9 | 600 | 2.67 | 0.16 |
| SCC 0150CP | 1 1/2 | 40 | 1.625 | 41.3 | 600 | 2.67 | 0.16 |
| SCC 0200CP | 2 | 50 | 2.125 | 54.0 | 800 | 3.56 | 0.30 |
| SCC 0250CP | 2 1/2 | 65 | 2.625 | 66.7 | 800 | 3.56 | 0.35 |
| SCC 0300CP | 3 | 80 | 3.125 | 79.4 | 800 | 3.56 | 0.38 |
| SCC 0350CP | 3 1/2 | 90 | 3.625 | 92.1 | 1000 | 4.45 | 0.52 |
| SCC 0400CP | 4 | 100 | 4.125 | 104.8 | 1000 | 4.45 | 0.60 |
| SCC 0500CP | 5 | 125 | 5.125 | 130.2 | 1000 | 4.45 | 0.72 |
| SCC 0600CP | 6 | 150 | 6.125 | 155.6 | 1000 | 4.45 | 0.80 |





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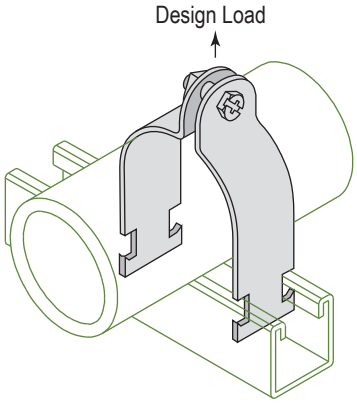
## SCO

O.D. Strut Clamp




| Catalog Number | Size O.D. | | | Design Load | | Wt. lbs |
|---|---|---|---|---|---|---|
| | in | | mm | lbs | kN | |
| SCO 0025EG | 1/4 | 0.250 | 6.4 | 400 | 1.78 | 0.08 |
| SCO 0037EG | 3/8 | 0.375 | 9.5 | 400 | 1.78 | 0.08 |
| SCO 0050EG | 1/2 | 0.500 | 12.7 | 400 | 1.78 | 0.08 |
| SCO 0062EG | 5/8 | 0.625 | 15.9 | 400 | 1.78 | 0.09 |
| SCO 0075EG | 3/4 | 0.750 | 19.0 | 400 | 1.78 | 0.10 |
| SCO 0087EG | 7/8 | 0.875 | 22.3 | 400 | 1.78 | 0.11 |
| SCO 0100EG | 1 | 1.000 | 25.4 | 600 | 2.67 | 0.14 |
| SCO 0112EG | 1 1/8 | 1.125 | 28.6 | 600 | 2.67 | 0.15 |
| SCO 0125EG | 1 1/4 | 1.250 | 31.8 | 600 | 2.67 | 0.16 |
| SCO 0137EG | 1 3/8 | 1.375 | 34.9 | 600 | 2.67 | 0.16 |
| SCO 0150EG | 1 1/2 | 1.500 | 38.1 | 600 | 2.67 | 0.16 |
| SCO 0162EG | 1 5/8 | 1.625 | 41.3 | 600 | 2.67 | 0.17 |
| SCO 0175EG | 1 3/4 | 1.750 | 44.5 | 800 | 3.56 | 0.28 |
| SCO 0187EG | 1 7/8 | 1.875 | 47.6 | 800 | 3.56 | 0.28 |
| SCO 0200EG | 2 | 2.000 | 50.8 | 800 | 3.56 | 0.29 |
| SCO 0212EG | 2 1/8 | 2.125 | 54.0 | 800 | 3.56 | 0.31 |
| SCO 0225EG | 2 1/4 | 2.250 | 57.2 | 800 | 3.56 | 0.31 |
| SCO 0237EG | 2 3/8 | 2.375 | 60.3 | 800 | 3.56 | 0.33 |
| SCO 0250EG | 2 1/2 | 2.500 | 63.5 | 800 | 3.56 | 0.34 |
| SCO 0262EG | 2 5/8 | 2.625 | 66.7 | 800 | 3.56 | 0.35 |
| SCO 0275EG | 2 3/4 | 2.750 | 69.9 | 800 | 3.56 | 0.33 |
| SCO 0287EG | 2 7/8 | 2.875 | 73.0 | 800 | 2.56 | 0.38 |
| SCO 0300EG | 3 | 3.000 | 76.2 | 800 | 3.56 | 0.38 |
| SCO 0312EG | 3 1/8 | 3.125 | 79.4 | 800 | 3.56 | 0.39 |

| Catalog Number | Size O.D. | | | Design Load | | Wt. lbs |
|---|---|---|---|---|---|---|
| | in | | mm | lbs | kN | |
| SCO 0325EG | 3 1/4 | 3.250 | 82.6 | 800 | 3.56 | 0.41 |
| SCO 0337EG | 3 3/8 | 3.375 | 85.7 | 800 | 3.56 | 0.43 |
| SCO 0350EG | 3 1/2 | 3.500 | 88.9 | 800 | 3.56 | 0.45 |
| SCO 0362EG | 3 5/8 | 3.625 | 92.1 | 1000 | 3.56 | 0.53 |
| SCO 0375EG | 3 3/4 | 3.750 | 95.3 | 1000 | 4.45 | 0.55 |
| SCO 0387EG | 3 7/8 | 3.875 | 98.4 | 1000 | 4.45 | 0.57 |
| SCO 0400EG | 4 | 4.000 | 101.6 | 1000 | 4.45 | 0.59 |
| SCO 0412EG | 4 1/8 | 4.125 | 104.8 | 1000 | 4.45 | 0.59 |
| SCO 0425EG | 4 1/4 | 4.250 | 108.0 | 1000 | 4.45 | 0.60 |
| SCO 0437EG | 4 3/8 | 4.375 | 111.1 | 1000 | 4.45 | 0.60 |
| SCO 0450EG | 4 1/2 | 4.500 | 114.3 | 1000 | 4.45 | 0.63 |
| SCO 0462EG | 4 5/8 | 4.625 | 117.5 | 1000 | 4.45 | 0.63 |
| SCO 0475EG | 4 3/4 | 4.750 | 120.7 | 1000 | 4.45 | 0.65 |
| SCO 0487EG | 4 7/8 | 4.875 | 123.8 | 1000 | 4.45 | 0.66 |
| SCO 0500EG | 5 | 5.000 | 127.0 | 1000 | 4.45 | 0.70 |
| SCO 0512EG | 5 1/8 | 5.125 | 130.2 | 1000 | 4.45 | 0.71 |
| SCO 0525EG | 5 1/4 | 5.250 | 133.4 | 1000 | 4.45 | 0.73 |
| SCO 0537EG | 5 3/8 | 5.375 | 136.5 | 1000 | 4.45 | 0.75 |
| SCO 0550EG | 5 1/2 | 5.500 | 139.7 | 1000 | 4.45 | 0.71 |
| SCO 0562EG | 5 5/8 | 5.625 | 142.9 | 1000 | 4.45 | 0.74 |
| SCO 0575EG | 5 3/4 | 5.750 | 146.1 | 1000 | 4.45 | 0.73 |
| SCO 0587EG | 5 7/8 | 5.875 | 149.2 | 1000 | 4.45 | 0.78 |
| SCO 0600EG | 6 | 6.000 | 152.4 | 1000 | 4.45 | 0.76 |
| SCO 0612EG | 6 1/8 | 6.125 | 155.6 | 1000 | 4.45 | 0.77 |

| Catalog Number | Size O.D. | | | Design Load | | Wt. lbs |
|---|---|---|---|---|---|---|
| | in | | mm | lbs | kN | |
| SCO 0625EG | 6 1/4 | 6.250 | 158.8 | 1000 | 4.45 | 0.83 |
| SCO 0637EG | 6 3/8 | 6.375 | 161.9 | 1000 | 4.45 | 0.98 |
| SCO 0650EG | 6 1/2 | 6.500 | 165.1 | 1000 | 4.45 | 0.85 |
| SCO 0662EG | 6 5/8 | 6.625 | 168.3 | 1000 | 4.45 | 0.85 |
| SCO 0675EG | 6 3/4 | 6.750 | 171.5 | 1000 | 4.45 | 0.86 |
| SCO 0687EG | 6 7/8 | 6.875 | 174.6 | 1000 | 4.45 | 0.88 |
| SCO 0700EG | 7 | 7.000 | 177.8 | 1000 | 4.45 | 0.92 |
| SCO 0712EG | 7 1/8 | 7.125 | 181.0 | 1000 | 4.45 | 0.91 |
| SCO 0725EG | 7 1/4 | 7.250 | 184.2 | 1000 | 4.45 | 0.92 |
| SCO 0737EG | 7 3/8 | 7.375 | 187.3 | 1000 | 4.45 | 0.93 |
| SCO 0750EG | 7 1/2 | 7.500 | 190.5 | 1000 | 4.45 | 0.93 |
| SCO 0762EG | 7 5/8 | 7.625 | 193.7 | 1000 | 4.45 | 0.98 |
| SCO 0775EG | 7 3/4 | 7.750 | 196.9 | 1000 | 4.45 | 1.00 |
| SCO 0787EG | 7 7/8 | 7.875 | 200.0 | 1000 | 4.45 | 1.19 |
| SCO 0812EG | 8 1/8 | 8.125 | 206.4 | 1000 | 4.45 | 0.99 |
| SCO 0825EG | 8 1/4 | 8.250 | 209.6 | 1000 | 4.45 | 1.23 |
| SCO 0837EG | 8 3/8 | 8.375 | 212.7 | 1000 | 4.45 | 1.25 |
| SCO 0850EG | 8 1/2 | 8.500 | 215.9 | 1000 | 4.45 | 1.01 |
| SCO 0862EG | 8 5/8 | 8.625 | 219.1 | 1000 | 4.45 | 1.03 |
| SCO 0875EG | 8 3/4 | 8.750 | 222.3 | 1000 | 4.45 | 1.11 |
| SCO 0887EG | 8 7/8 | 8.875 | 225.4 | 1000 | 4.45 | 1.08 |
| SCO 0900EG | 9 | 9.000 | 228.6 | 1000 | 4.45 | 1.02 |
| SCO 1137EG | 11 3/8 | 11.375 | 288.9 | 1000 | 4.45 | 1.10 |
| SCO 1275EG | 12 3/4 | 12.750 | 323.9 | 1000 | 4.45 | 1.20 |

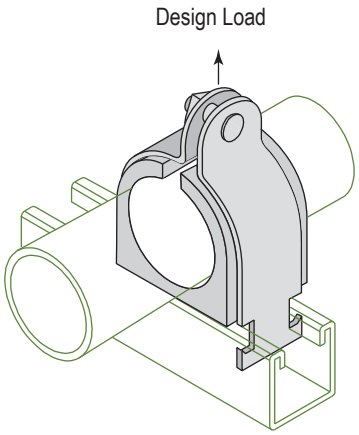
*Other size available upon request.*



**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## CCT

Cushioned Tubing Strut Clamp

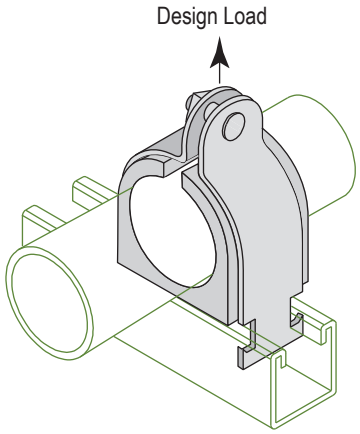



| Catalog Number | Tubing Size O.D. | | | Wt. lbs |
|---|---|---|---|---|
| | in | in | mm | |
| CCT 0025YC | 1/4 | 0.250 | 6.4 | 0.11 |
| CCT 0037YC | 3/8 | 0.375 | 9.5 | 0.12 |
| CCT 0050YC | 1/2 | 0.500 | 12.7 | 0.13 |
| CCT 0062YC | 5/8 | 0.625 | 15.9 | 0.15 |
| CCT 0075YC | 3/4 | 0.750 | 19.0 | 0.14 |
| CCT 0087YC | 7/8 | 0.875 | 22.3 | 0.21 |
| CCT 0100YC | 1 | 1.000 | 25.4 | 0.22 |
| CCT 0112YC | 1 1/8 | 1.125 | 28.6 | 0.24 |
| CCT 0125YC | 1 1/4 | 1.250 | 31.8 | 0.25 |
| CCT 0137YC | 1 3/8 | 1.375 | 34.9 | 0.26 |
| CCT 0150YC | 1 1/2 | 1.500 | 38.1 | 0.36 |
| CCT 0162YC | 1 5/8 | 1.625 | 41.3 | 0.39 |
| CCT 0175YC | 1 3/4 | 1.750 | 44.5 | 0.43 |
| CCT 0187YC | 1 7/8 | 1.875 | 47.6 | 0.39 |
| CCT 0200YC | 2 | 2.000 | 50.8 | 0.43 |
| CCT 0212YC | 2 1/8 | 2.125 | 54.0 | 0.50 |
| CCT 0225YC | 2 1/4 | 2.250 | 57.2 | 0.52 |
| CCT 0250YC | 2 1/2 | 2.500 | 63.5 | 0.57 |
| CCT 0262YC | 2 5/8 | 2.625 | 66.7 | 0.57 |
| CCT 0312YC | 3 1/8 | 3.125 | 79.4 | 0.59 |
| CCT 0362YC | 3 5/8 | 3.625 | 92.1 | 0.64 |
| CCT 0412YC | 4 1/8 | 4.125 | 104.8 | 0.75 |

*Other size available upon request.*

## CCP

Cushioned Pipe Strut Clamp




| Catalog Number | Pipe Size | | Pipe O.D. | | Wt. lbs |
|---|---|---|---|---|---|
| | in | DIN | in | mm | |
| CCP 0037YC | 3/8 | 10 | 0.675 | 17.1 | 0.14 |
| CCP 0050YC | 1/2 | 15 | 0.840 | 21.3 | 0.19 |
| CCP 0075YC | 3/4 | 20 | 1.050 | 26.7 | 0.23 |
| CCP 0100YC | 1 | 25 | 1.315 | 33.4 | 0.24 |
| CCP 0125YC | 1 1/4 | 32 | 1.660 | 42.2 | 0.42 |
| CCP 0150YC | 1 1/2 | 40 | 1.900 | 48.3 | 0.42 |
| CCP 0200YC | 2 | 50 | 2.375 | 60.3 | 0.49 |
| CCP 0250YC | 2 1/2 | 65 | 2.875 | 73.0 | 0.60 |
| CCP 0300YC | 3 | 80 | 3.500 | 88.9 | 0.77 |
| CCP 0350YC | 3 1/2 | 90 | 4.000 | 101.6 | 0.93 |
| CCP 0400YC | 4 | 100 | 4.500 | 114.3 | 1.10 |
| CCP 0500YC | 5 | 125 | 5.562 | 141.3 | 1.30 |



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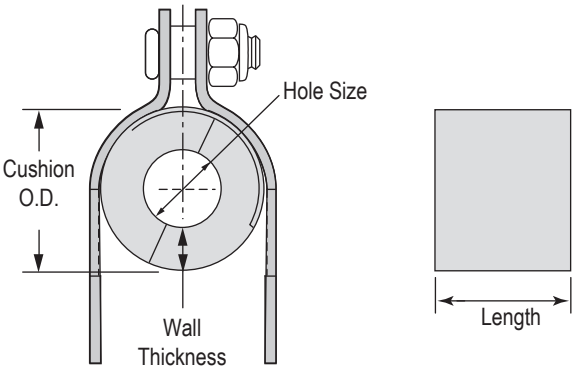
## CIT

Therma-shield Clamp

- Temperature range: -70°F to 250°F (-57°C to +121°C)
- Flammability is self-extinguishing as tested under ASTM D 635
- Polyurethane foam laminated with a rubber lining
- 180 lb crush strength
- Maintains thermal barrier since only the therma-shield is in contact with pipe insulation.
- Tested in Conformance with ASTM E84 (UL 723, NFPA 255) having results of 0 FSI (Flame Spread Index) and 50 SDI (Smoke Developed Index)

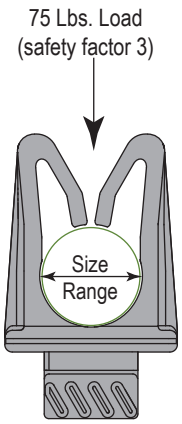
NOTE: Complete assembly supplied with gold electro-galvanized channel clamp and hardware




| Dimensions (Inches) | | | | | Nominal ½" Wall Thickness | | Nominal ¾" Wall Thickness | | Nominal 1" Wall Thickness | | Nominal 1½" Wall Thickness | | Nominal 2" Wall Thickness | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Hole Size | Copper I.D. | Pipe O.D. | IPS | Length | Part No. | Cushion O.D. | Part No. | Cushion O.D. | Part No. | Cushion O.D. | Part No. | Cushion O.D. | Part No. | Cushion O.D. |
| ⅜ ID | ¼ | ⅜ | - | 2.95 | CIT 3812 | 1.33 | CIT 3834 | 1.81 | CIT 3810 | 2.31 | CIT 3815 | 3.31 | – | – |
| ½ ID | ⅜ | ½ | ¼ | 2.95 | CIT 1212 | 1.44 | CIT 1234 | 1.89 | CIT 1210 | 2.39 | CIT 1215 | 3.39 | – | – |
| ⅝ ID | ½ | ⅝ | ⅜ | 2.95 | CIT 5812 | 1.56 | CIT 5834 | 2.05 | CIT 5810 | 2.54 | CIT 5815 | 3.54 | CIT 5820 | 4.54 |
| ¾ ID | ⅝ | ¾ | - | 2.95 | CIT 3412 | 1.69 | CIT 3434 | 2.22 | CIT 3410 | 2.71 | CIT 3415 | 3.71 | CIT 3420 | 4.71 |
| ⅞ ID | ¾ | ⅞ | ½ | 2.95 | CIT 7812 | 1.81 | CIT 7834 | 2.44 | CIT 7810 | 2.82 | CIT 7815 | 3.82 | CIT 7820 | 4.82 |
| 1⅛ ID | 1 | 1⅛ | ¾ | 2.95 | CIT 11812 | 2.19 | CIT 11834 | 2.76 | CIT 11810 | 3.06 | CIT 11815 | 4.06 | CIT 11820 | 5.06 |
| 1⅜ ID | 1¼ | 1⅜ | 1 | 2.95 | CIT 13812 | 2.31 | CIT 13834 | 3.19 | CIT 13810 | 3.33 | CIT 13815 | 4.33 | CIT 13820 | 5.33 |
| 1⅝ ID | 1½ | 1⅝ | 1¼ | 2.95 | CIT 15812 | 2.56 | CIT 15834 | 3.35 | CIT 15810 | 3.65 | CIT 15815 | 4.65 | CIT 15820 | 5.65 |
| 1⅞ ID | - | 1⅞ | | 2.95 | CIT 17812 | 2.81 | CIT 17834 | 3.58 | CIT 17810 | 4.43 | CIT 17815 | 5.43 | CIT 17820 | 6.43 |
| 2⅛ ID | 2 | 2⅛ | - | 2.95 | CIT 21812 | 3.23 | CIT 21834 | 3.86 | CIT 21810 | 4.16 | CIT 21815 | 5.16 | CIT 21820 | 6.16 |
| 2⅜ ID | 2¼ | 2⅜ | 2 | 2.95 | CIT 23812 | 3.48 | CIT 23834 | 4.29 | CIT 23810 | 3.92 | CIT 23815 | 4.92 | CIT 23820 | 5.92 |
| 2⅝ ID | 2½ | 2⅝ | - | 3.94 | CIT 25812 | 4.13 | CIT 25834 | 4.87 | CIT 25810 | 4.87 | CIT 25815 | 5.87 | CIT 25820 | 6.87 |
| 2⅞ ID | - | 2⅞ | 2½ | 3.94 | CIT 27812 | 4.38 | CIT 27834 | 4.57 | CIT 27810 | 4.67 | CIT 27815 | 5.67 | CIT 27820 | 6.67 |
| 3⅛ ID | 3 | 3⅛ | - | 3.94 | CIT 31812 | 4.63 | CIT 31834 | 5.00 | CIT 31810 | 5.14 | CIT 31815 | 6.14 | CIT 31820 | 7.14 |
| 3½ ID | - | 3 ½ | 3 | 3.94 | CIT 31212 | 4.88 | CIT 31234 | 5.35 | CIT 31210 | 5.89 | CIT 31215 | 6.89 | CIT 31220 | 7.89 |
| 3⅝ ID | 3½ | 3⅝ | - | 3.94 | CIT 35812 | 5.13 | CIT 35834 | 5.94 | CIT 35810 | 6.44 | CIT 35815 | 7.44 | CIT 35820 | 8.44 |
| 4⅛ ID | 4 | 4⅛ | 3½ | 3.94 | CIT 41812 | 5.63 | CIT 41834 | 6.14 | CIT 41810 | 6.48 | CIT 41815 | 7.48 | CIT 41820 | 8.48 |

## CLC, CLE

Clutch Clamp for Tube and EMT Conduit




Strut Mounted

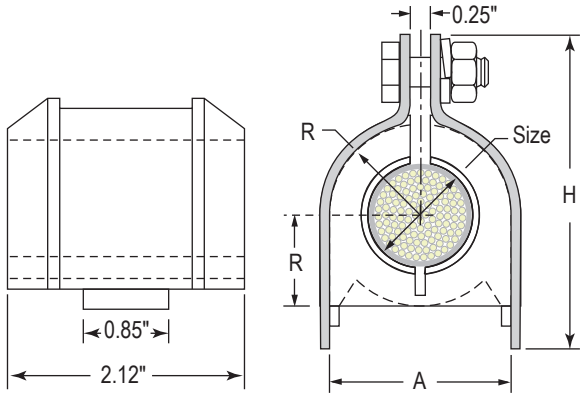
| Strut Mount Part # | O.D. TubeSize | | Catalog Number | EMT Size | |
|---|---|---|---|---|---|
| | O.D. | In | | O.D. | In |
| CLC 0025TP | ¼" | 0.250 | CLE 0050TP | ½" | 0.706 |
| CLC 0037TP | ⅜" | 0.375 | CLE 0075TP | ¾" | 0.922 |
| CLC 0050TP | ½" | 0.500 | CLE 0100TP | 1" | 1.163 |
| CLC 0062TP | ⅝" | 0.625 | | | |
| CLC 0075TP | ¾" | 0.750 | | | |
| CLC 0087TP | ⅞" | 0.875 | | | |
| CLC 0112TP | 1⅛" | 1.125 | | | |



**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## SCP

Cushioned Cable Strut Clamp




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.

The hinged cushion allows easy installation of the wire, but the components will not get separated and lost or broken.

| Part No. | Dimensions (Inches) | | | Total Assy. Height - H |
|---|---|---|---|---|
| | Hole Size. | A | R | |
| SCP 0037EG | 3/8 | 1.12 | 0.56 | 1.82 |
| SCP 0050EG | 1/2 | 1.12 | 0.56 | 1.82 |
| SCP 0062EG | 5/8 | 1.12 | 0.56 | 1.82 |
| SCP 0075EG | 3/4 | 1.62 | 0.81 | 2.34 |
| SCP 0087EG | 7/8 | 1.62 | 0.81 | 2.34 |
| SCP 0100EG | 1 | 1.62 | 0.81 | 2.34 |
| SCP 0112EG | 1-1/8 | 1.62 | 0.81 | 2.34 |
| SCP 0125EG | 1-1/4 | 2.12 | 1.06 | 2.86 |
| SCP 0137EG | 1-3/8 | 2.12 | 1.06 | 2.86 |
| SCP 0150EG | 1-1/2 | 2.12 | 1.06 | 2.86 |
| SCP 0162EG | 1-5/8 | 2.12 | 1.06 | 2.86 |
| SCP 0175EG | 1-3/4 | 2.62 | 1.31 | 3.50 |
| SCP 0187EG | 1-7/8 | 2.62 | 1.31 | 3.50 |
| SCP 0200EG | 2 | 2.62 | 1.31 | 3.50 |
| SCP 0212EG | 2-1/8 | 2.62 | 1.31 | 3.50 |
| SCP 0225EG | 2-1/4 | 3.12 | 1.56 | 4.05 |
| SCP 0237EG | 2-3/8 | 3.12 | 1.56 | 4.05 |
| SCP 0250EG | 2-1/2 | 3.12 | 1.56 | 4.05 |
| SCP 0262EG | 2-5/8 | 3.12 | 1.56 | 4.05 |
| SCP 0275EG | 2-3/4 | 3.62 | 1.81 | 4.75 |
| SCP 0287EG | 2-7/8 | 3.62 | 1.81 | 4.75 |
| SCP 0300EG | 3 | 3.62 | 1.81 | 4.75 |
| SCP 0312EG | 3-1/8 | 3.62 | 1.81 | 4.75 |
| SCP 0325EG | 3-1/4 | 4.12 | 2.06 | 5.125 |
| SCP 0337EG | 3-3/8 | 4.12 | 2.06 | 5.125 |
| SCP 0350EG | 3-1/2 | 4.12 | 2.06 | 5.125 |
| SCP 0362EG | 3-5/8 | 4.12 | 2.06 | 5.125 |
| SCP 0375EG | 3-3/4 | 4.62 | 2.31 | 5.54 |
| SCP 0387EG | 3-7/8 | 4.62 | 2.31 | 5.54 |
| SCP 0400EG | 4 | 4.62 | 2.31 | 5.54 |
| SCP 0412EG | 4-1/8 | 4.62 | 2.31 | 5.54 |
| SCP 0425EG | 4-1/4 | 5.00 | 2.50 | 5.92 |
| SCP 0437EG | 4-3/8 | 5.00 | 2.50 | 5.92 |
| SCP 0450EG | 4-1/2 | 5.00 | 2.50 | 5.92 |



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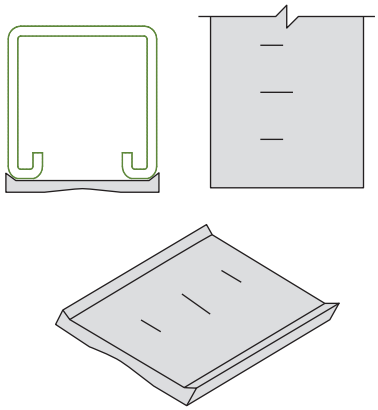
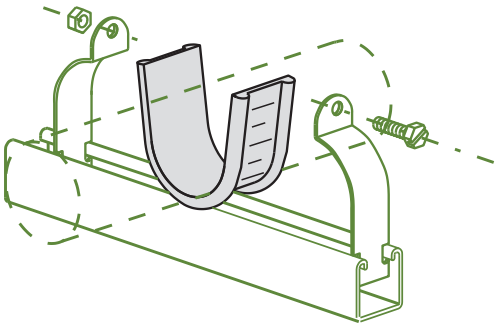
## PW 2500EP

Cushioned Pipe Wrap

*Sold In 25 Foot Rolls*

*Manufactured from a thermoplastic elastomer*
*Service range of -50° F to 275° F*





*Recommended clamp size and cut length for common pipe and tubing.*

## IRON PIPE OR RIGID CONDUIT

| Nominal Pipe Size | | PW Cut Length | | Clamp Number | Qty Per Roll * |
|---|---|---|---|---|---|
| Inch | Metric | in | mm | | |
| 3/8 | 10 | 2 1/8 | 54.0 | SCE 0075EG | 141 |
| 1/2 | 15 | 2 5/8 | 66.7 | SCR 0075EG | 114 |
| 3/4 | 20 | 3 1/4 | 82.6 | SCO 0125EG | 92 |
| 1 | 25 | 4 1/8 | 104.8 | SCE 0125EG | 72 |
| 1 1/2 | 40 | 5 15/16 | 150.8 | SCO 0212EG | 50 |
| 2 | 50 | 7 7/16 | 188.9 | SCO 0262EG | 40 |
| 2 1/2 | 65 | 9 | 228.6 | SCO 0312EG | 33 |
| 3 | 80 | 11 | 279.4 | SCO 0375EG | 27 |
| 3 1/2 | 90 | 12 1/2 | 317.5 | SCO 0425EG | 24 |
| 4 | 100 | 14 1/8 | 358.8 | SCO 0475EG | 21 |
| 5 | 125 | 17 7/16 | 442.9 | SCO 0575EG | 17 |
| 6 | 150 | 20 3/4 | 527.1 | SCO 0687EG | 14 |

## THIN WALL EMT CONDUIT

| Nominal Pipe Size | | PW Cut Length | | Clamp Number | Qty Per Roll * |
|---|---|---|---|---|---|
| Inch | Metric | in | mm | | |
| 3/8 | 10 | 1 13/16 | 46.0 | SCO 0075EG | 165 |
| 1/2 | 15 | 2 3/16 | 55.6 | SCE 0075EG | 137 |
| 3/4 | 20 | 2 7/8 | 73.0 | SCE 0100EG | 1041 |
| 1 | 25 | 3 5/8 | 92.1 | SCO 0137EG | 82 |
| 1 1/4 | 32 | 4 11/16 | 119.1 | SCO 0187EG | 64 |
| 1 1/2 | 40 | 5 7/16 | 138.1 | SCR 0150EG | 55 |
| 2 | 50 | 6 7/8 | 174.6 | SCR 0200EG | 43 |

## COPPER TUBING

| Nominal Pipe Size | | PW Cut Length | | Clamp Number | Qty Per Roll * |
|---|---|---|---|---|---|
| Inch | Metric | in | mm | | |
| 1/4 | 6 | 1 1/8 | 28.6 | SCO 0062EG | 266 |
| 3/8 | 10 | 1 9/16 | 39.7 | SCO 0075EG | 192 |
| 1/2 | 15 | 1 7/8 | 47.6 | SCO 0087EG | 160 |
| 5/8 | 17 | 2 5/16 | 58.7 | SCO 0100EG | 129 |
| 3/4 | 20 | 2 3/4 | 69.9 | SCO 0112EG | 109 |
| 1 | 25 | 3 1/2 | 88.9 | SCO 0137EG | 85 |
| 1 1/4 | 32 | 4 5/16 | 109.5 | SCO 0162EG | 69 |
| 1 1/2 | 40 | 5 1/16 | 128.6 | SCO 0187EG | 59 |
| 2 | 50 | 6 11/16 | 169.9 | SCR 0200EG | 44 |
| 2 1/2 | 65 | 8 1/4 | 209.6 | SCR 0250EG | 36 |
| 3 | 80 | 9 13/16 | 249.2 | SCO 0337EG | 30 |
| 3 1/2 | 90 | 11 3/8 | 288.9 | SCO 0387EG | 26 |
| 4 | 100 | 12 15/16 | 328.6 | SCO 0437EG | 23 |
| 5 | 125 | 16 1/16 | 408.0 | SCO 0537EG | 18 |
| 6 | 150 | 19 1/4 | 488.9 | SCO 0637EG | 15 |
| 8 | 200 | 25 1/2 | 647.7 | SCO 0837EG | 11 |

** Quantity per roll is an approximation based on cut length specified from a 25 foot roll.*



**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

# Conduit & Tubing Clamps

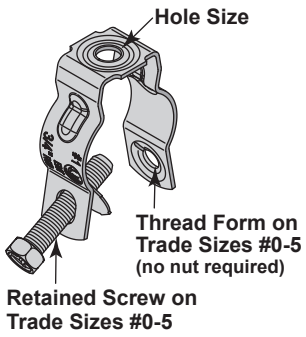
Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

PHOENIX® SUPPORT SYSTEMS

## PCH
Pipe and Conduit Hanger

Note: Hanger also available in stainless steel.

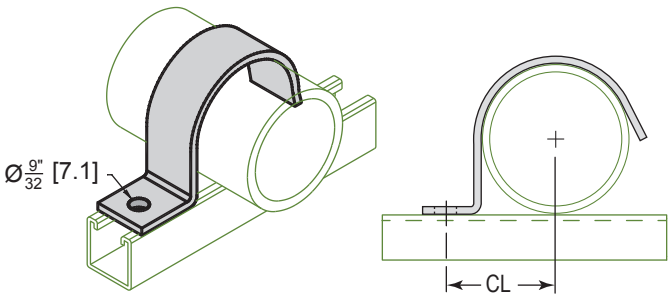
Hole size also available with ¼-20 thread form on trade sizes 0 thru 5.




| Catalog No. | Trade Size | Conduit Size | | Hole Size | Box Qty |
|---|---|---|---|---|---|
| | | EMT | Rigid | | |
| PCH0 | 0 | ½" | ⅜", ½" | ¼" | 100 |
| PCH037 | | | | ⅜" | |
| PCH1 | 1 | ¾" | ¾" | ¼" | 100 |
| PCH137 | | | | ⅜" | |
| PCH2 | 2 | 1" | 1" | ¼" | 100 |
| PCH237 | | | | ⅜" | |
| PCH2.5 | 2.5 | 1-¼" | - | ¼" | 100 |
| PCH2.537 | | | | ⅜" | |
| PCH3 | 3 | 1-½" | 1-¼" | ¼" | 100 |
| PCH337 | | | | ⅜" | |
| PCH4 | 4 | - | 1-½" | 5/16" | 50 |
| PCH437 | | | | ⅜" | |
| PCH5 | 5 | 2" | 2" | 5/16" | 50 |
| PCH537 | | | | ⅜" | |
| PCH6 * | 6 | 2-½" | 2-½" | 5/16" | 25 |
| PCH7 * | 7 | 3" | 3" | 5/16" | 25 |
| PCH8 * | 8 | 3-½" | 3-½" | 5/16" | 10 |
| PCH9 * | 9 | 4" | 4" | 5/16" | 10 |

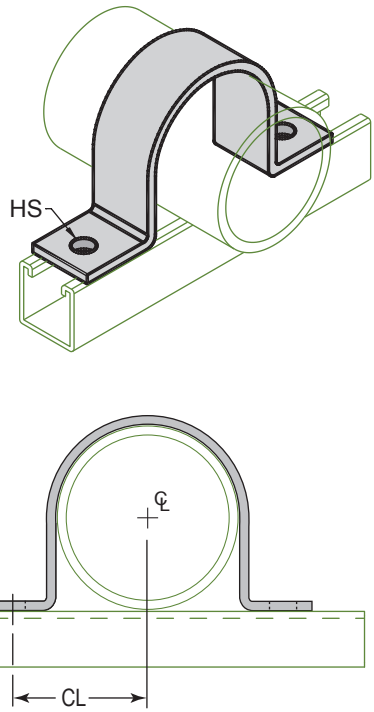
** EG finish and pan head, hex nut hardware.*

## TC1
O.D. Tubing Clamp




| Catalog Number | Wt. lbs | Tubing OD | | CL | |
|---|---|---|---|---|---|
| | | in | mm | in | mm |
| TC1 0025EG | 0.040 | ¼ | 6.3 | ½ | 12.7 |
| TC1 0031EG | 0.042 | 5/16 | 7.9 | 9/16 | 14.3 |
| TC1 0037EG | 0.052 | ⅜ | 9.5 | 9/16 | 14.3 |
| TC1 0050EG | 0.058 | ½ | 12.7 | ⅝ | 15.9 |
| TC1 0062EG | 0.071 | ⅝ | 15.8 | 11/16 | 17.5 |
| TC1 0075EG | 0.077 | ¾ | 19.0 | ¾ | 19.0 |
| TC1 0087EG | 0.087 | ⅞ | 22.2 | 13/16 | 20.6 |
| TC1 0100EG | 0.100 | 1 | 25.4 | 15/16 | 23.8 |

## PS2
Pipe Strap




| Catalog Number | Wt. lbs | Pipe Size | | HS | | CL | |
|---|---|---|---|---|---|---|---|
| | | in | mm | in | mm | in | mm |
| PS2 0050EG | 0.23 | ½ | 15 | 5/16 | 7.9 | 1⅛ | 23.8 |
| PS2 0075EG | 0.26 | ¾ | 20 | 5/16 | 7.9 | 1 3/16 | 25.4 |
| PS2 0100EG | 0.29 | 1 | 25 | 5/16 | 7.9 | 1 5/16 | 28.6 |
| PS2 0125EG | 0.34 | 1¼ | 32 | 5/16 | 7.9 | 1 7/16 | 33.3 |
| PS2 0150EG | 0.37 | 1½ | 40 | 5/16 | 7.9 | 1 9/16 | 36.5 |
| PS2 0200EG | 0.92 | 2 | 50 | 7/16 | 11.1 | 2⅛ | 54.0 |
| PS2 0250EG | 1.08 | 2½ | 65 | 7/16 | 11.1 | 2⅜ | 60.3 |
| PS2 0300EG | 1.33 | 3 | 80 | 7/16 | 11.1 | 2 11/16 | 68.3 |
| PS2 0350EG | 1.43 | 3½ | 90 | 7/16 | 11.1 | 2 15/16 | 74.6 |
| PS2 0400EG | 1.66 | 4 | 100 | 9/16 | 14.2 | 3 3/16 | 81.0 |
| PS2 0500EG | 1.95 | 5 | 125 | 9/16 | 14.2 | 3¾ | 95.2 |
| PS2 0600EG | 2.27 | 6 | 150 | 9/16 | 14.2 | 4¼ | 107.9 |
| PS2 0800EG | 2.75 | 8 | 203 | 9/16 | 14.2 | 5¼ | 133.3 |
| PS2 1000EG | 3.43 | 10 | 254 | 9/16 | 14.2 | 6 5/16 | 160.3 |
| PS2 1200EG | 3.96 | 12 | 305 | 9/16 | 14.2 | 7 5/16 | 185.7 |





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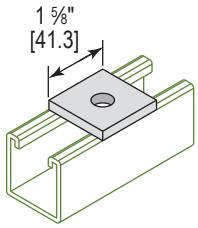
## F09 THRU F15

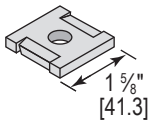
Square Washer




| Catalog Number | Wt. lbs | Bolt Size | | Hole Size | |
|---|---|---|---|---|---|
| | | in | mm | in | mm |
| F10 0025EG | 0.18 | 1/4 | 6 | 5/16 | 7.9 |
| F09 0031EG | 0.17 | 5/16 | 7 | 3/8 | 9.5 |
| F11 0037EG | 0.17 | 3/8 | 8 | 7/16 | 11.1 |
| F12 0050EG | 0.15 | 1/2 | 12 | 9/16 | 14.3 |
| F13 0062EG | 0.15 | 5/8 | 16 | 11/16 | 17.5 |
| F14 0075EG | 0.14 | 3/4 | 20 | 13/16 | 20.6 |
| F15 0087EG | 0.13 | 7/8 | 22 | 15/16 | 23.8 |

## F19 THRU F24

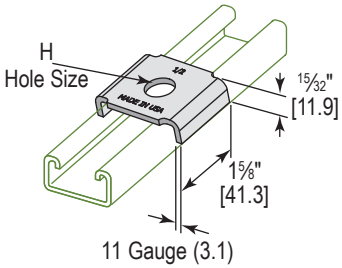
No Twist Square Washer




| Catalog Number | Wt. lbs | Bolt Size | |
|---|---|---|---|
| | | in | mm |
| F19 0031EG | 0.17 | 5/16 | 8 |
| F20 0025EG | 0.17 | 1/4 | 6 |
| F21 0037EG | 0.17 | 3/8 | 8 |
| F22 0050EG | 0.16 | 1/2 | 12 |
| F23 0062EG | 0.15 | 5/8 | 16 |
| F24 0075EG | 0.14 | 3/4 | 20 |

## U70

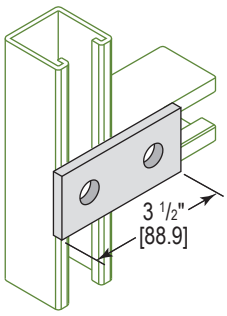
Saddle Washer




| Catalog Number | Wt. lbs | Bolt Size (in) | H (Hole Size) | |
|---|---|---|---|---|
| | | | in | mm |
| U70 0025EG | 0.14 | 1/4 | 5/16 | 7.9 |
| U70 0037EG | 0.14 | 3/8 | 7/16 | 11.1 |
| U70 0050EG | 0.13 | 1/2 | 9/16 | 14.3 |
| U70 0062EG | 0.13 | 5/8 | 11/16 | 17.4 |
| U70 0075EG | 0.13 | 3/4 | 13/16 | 20.6 |

## F30

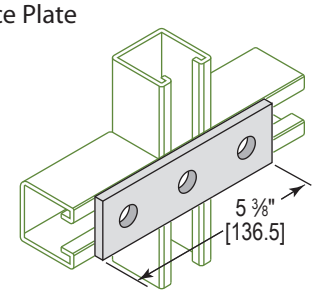
2 Hole Splice Plate




*Catalog Number: F30 0000EG*
*Weight: 0.34 Lbs*

## F31

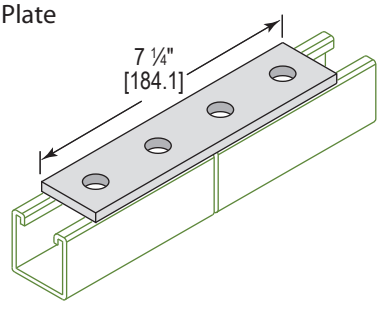
3 Hole Splice Plate




*Catalog Number: F31 0000EG*
*Weight: 0.54 Lbs.*

## F32

4 Hole Splice Plate




*Catalog Number: F32 0000EG*
*Weight: 0.7 Lbs.*

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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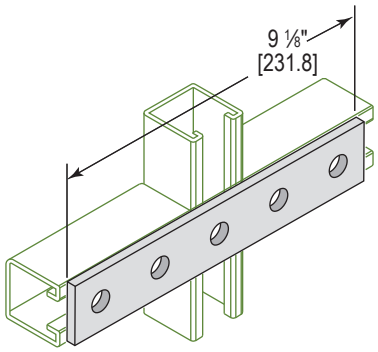
# Flat Fittings

Standard finish is Zinc Electroplate (EG)
Product finishes and materials are on page 10 • Note: May be available with 7/16" holes

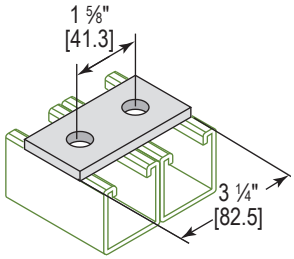
PHOENIX® SUPPORT SYSTEMS

## F33
5 Hole Splice Plate



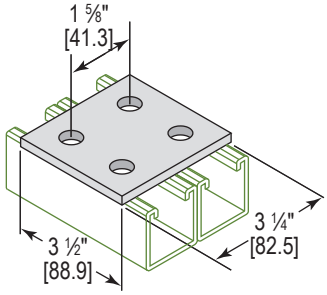

*Catalog Number: F33 0000EG*
*Weight: 0.93 Lbs.*

## F34
2 Hole Parallel Splice Plate



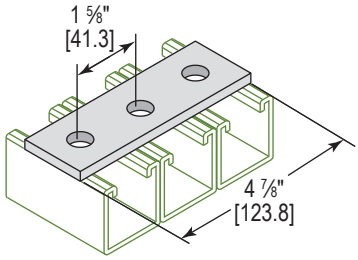

*Catalog Number: F34 0000EG*
*Weight: 0.31 Lbs.*

## F35
4 Hole Parallel Splice Plate



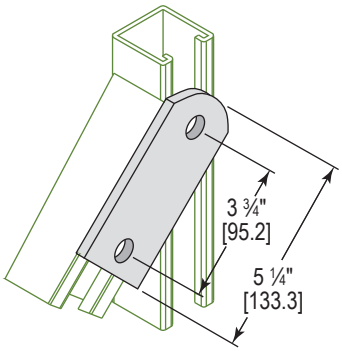

*Catalog Number: F35 0000EG*
*Weight: 0.76 Lbs.*

## F36
3 Hole Parallel Splice Plate



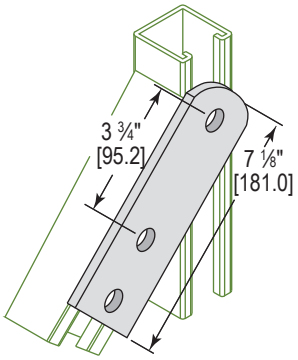

*Catalog Number: F36 0000EG*
*Weight: 0.45 Lbs.*

## F40
2 Hole Swivel Plate




*Catalog Number: F40 0000EG*
*Weight: 0.52 Lbs.*

## F41
3 Hole Swivel Plate




*Catalog Number: F41 0000EG*
*Weight: 0.53 Lbs.*

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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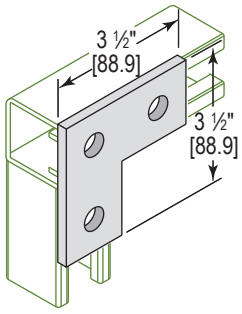
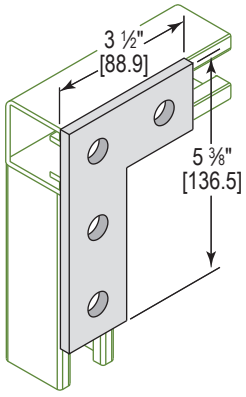
## F50
3 Hole Corner Plate



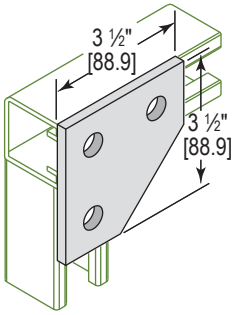

*Catalog Number: F50 0000EG*
*Weight: 0.6 Lbs.*

## F51
4 Hole Corner Plate



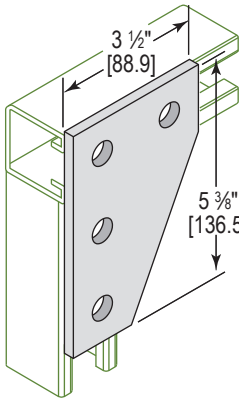

*Catalog Number: F51 0000EG*
*Weight: 0.71 Lbs.*

## F52
3 Hole Corner Gusset Plate



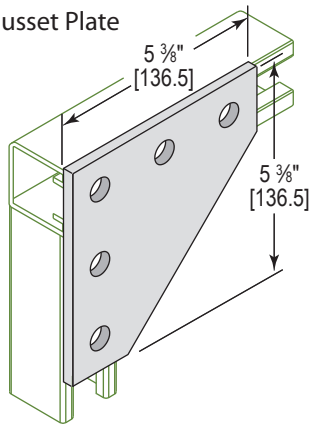

*Catalog Number: F52 0000EG*
*Weight: 0.65 Lbs.*

## F53
4 Hole Corner Gusset Plate



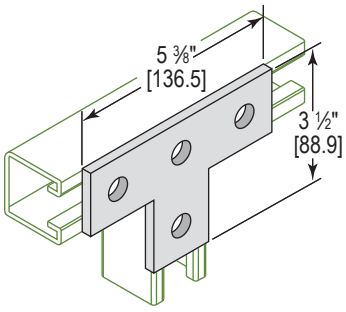

*Catalog Number: F53 0000EG*
*Weight: 0.95 Lbs.*

## F54
5 Hole Corner Gusset Plate




*Catalog Number: F54 0000EG*
*Weight: 0.95 Lbs.*

## F60
4 Hole Tee Plate




*Catalog Number: F60 0000EG*
*Weight: 0.70 Lbs.*

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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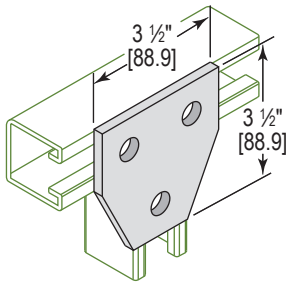
# Flat Fittings

Standard finish is Zinc Electroplate (EG)
Product finishes and materials are on page 10 • Note: May be available with 7/16" holes

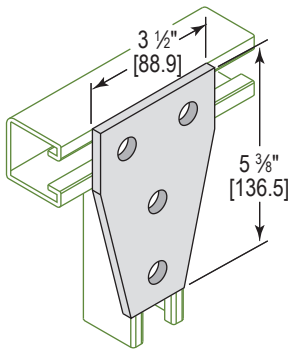
PHOENIX® SUPPORT SYSTEMS

## F61
3 Hole Tee Gusset Plate



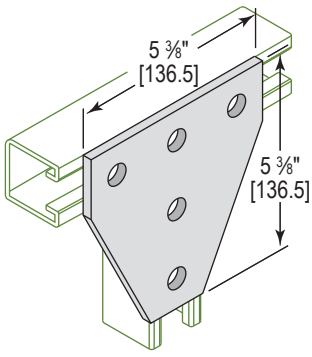

*Catalog Number: F61 0000EG*
*Weight: .64 Lbs.*

## F62
4 Hole Tee Gusset Plate



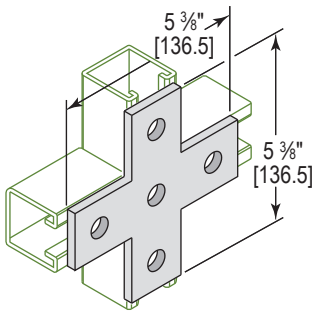

*Catalog Number: F62 0000EG*
*Weight: .97 Lbs.*

## F63
5 Hole Tee Gusset Plate



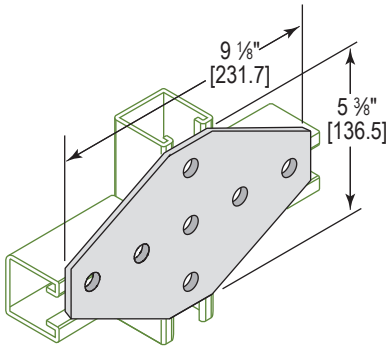

*Catalog Number: F63 0000EG*
*Weight: 1.39 Lbs.*

## F70
5 Hole Cross Plate




*Catalog Number: F70 0000EG*
*Weight: 0.95 Lbs.*

## F71
7 Hole Cross Gusset Plate




*Catalog Number: F71 0000EG*
*Weight: 2.32 Lbs.*

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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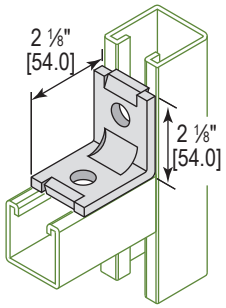
# Angle Fittings

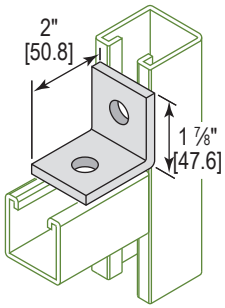
Standard finish is Zinc Electroplate (EG)
Note: may be available with 7/16" holes • Product finishes and materials are on page 10

## L10
2 Hole No Twist Corner Angle




*Catalog Number: L10 0000EG*
*Weight: 0.36 Lbs.*

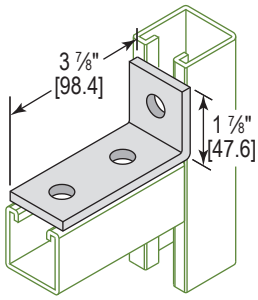
## L11
2 Hole Corner Angle




Note: Also available with 3/8" hole size

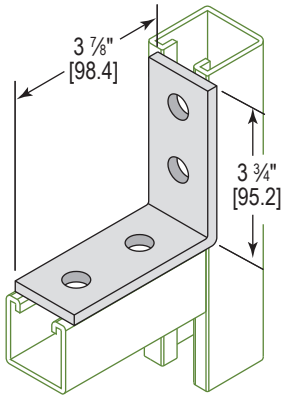
*Catalog Number: L11 0000EG*
*Weight: 0.36 Lbs.*

## L12
3 Hole Corner Angle



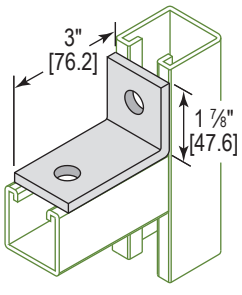

*Catalog Number: L12 0000EG*
*Weight: 0.40 Lbs.*

## L13
4 Hole Corner Angle



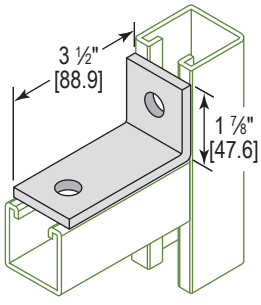

*Catalog Number: L13 0000EG*
*Weight: 0.76 Lbs.*

## L14
2 Hole 3" Corner Angle




*Catalog Number: L14 0000EG*
*Weight: 0.45 Lbs.*

## L15
2 Hole 3½" Corner Angle




*Catalog Number: L15 0000EG*
*Weight: 0.51 Lbs.*

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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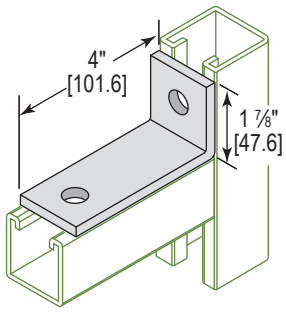
# Angle Fittings

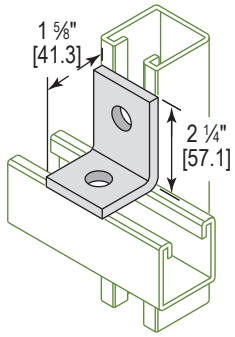
Standard finish is Zinc Electroplate (EG)
Product finishes and materials are on page 10 • Note: May be available with 7/16" holes

## L16
2 Hole 4" Corner Angle




*Catalog Number: L16 0000EG*
*Weight: 0.54 Lbs.*

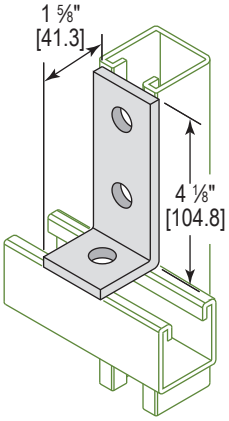
## L20
2 Hole Cross Corner Angle




Note: Also available with 3/8" hole size

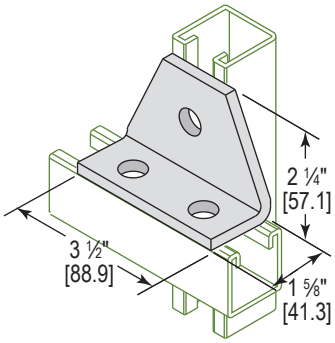
*Catalog Number: L20 0000EG*
*Weight: 0.34 Lbs.*

## L21
3 Hole Corner Angle



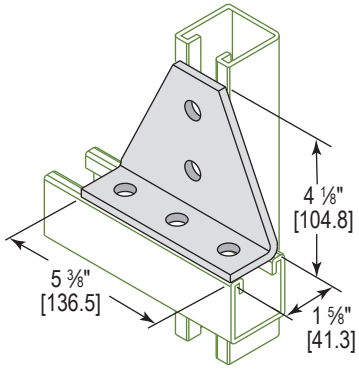

*Catalog Number: L21 0000EG*
*Weight: 0.52 Lbs.*

## L22
3 Hole Cross Gusset Corner Angle



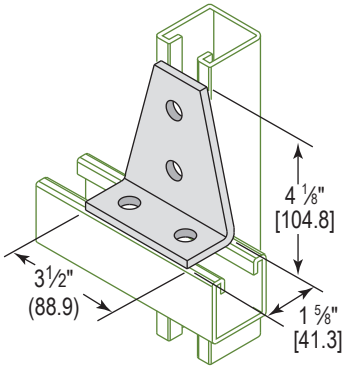

*Catalog Number: L22 0000EG*
*Weight: 0.65 Lbs.*

## L23
5 Hole Cross Gusset Corner Angle




*Catalog Number: L23 0000EG*
*Weight: 1.4 Lbs.*

## L24
4 Hole Gusset Shelf Angle




*Catalog Number: L24 0000EG*
*Weight: 1.02 Lbs.*

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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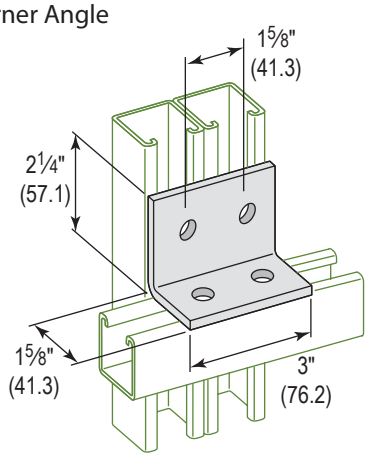
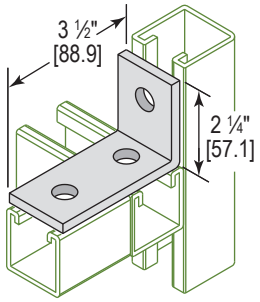
## L25
4 Hole Gusset Corner Angle



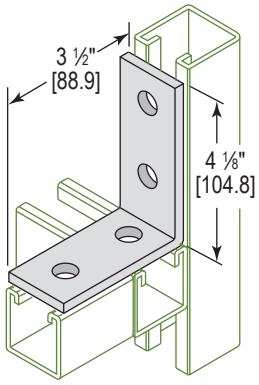

*Catalog Number: L25 0000EG*
*Weight: 0.75 Lbs.*

## L30
3 Hole 3 Way Corner Angle



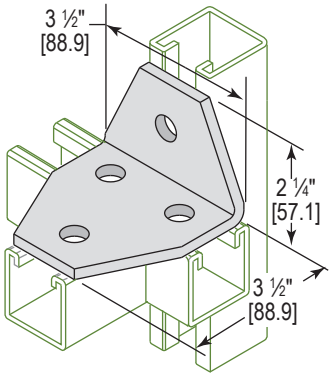

*Catalog Number: L30 0000EG*
*Weight: 0.52 Lbs.*

## L31
4 Hole 3 Way Corner Angle



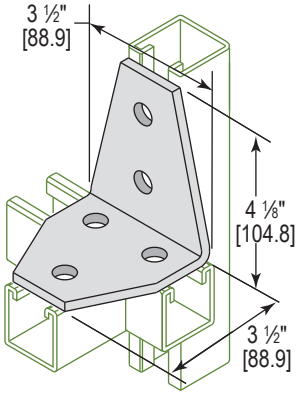

*Catalog Number: L31 0000EG*
*Weight: 0.71 Lbs.*

## L32
4 Hole 3 Way Gusset Corner Angle



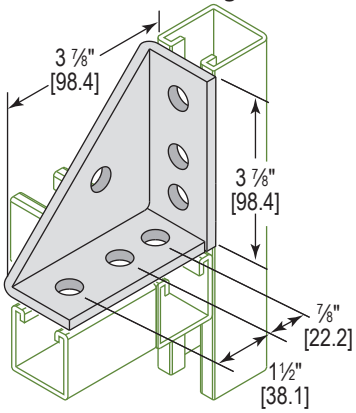

*Catalog Number: L32 0000EG*
*Weight: 0.96 Lbs.*

## L33
5 Hole 3 Way Gusset Corner Angle




*Catalog Number: L33 0000EG*
*Weight: 1.27 Lbs.*

## L34
7 Hole Universal Gusset Corner Angle




*Catalog Number: L34 0000EG*
*Weight: 1.51 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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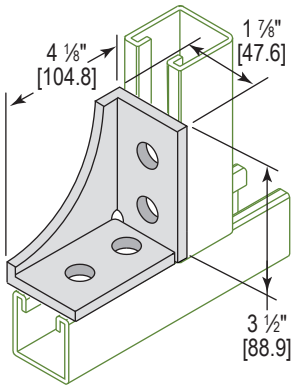
# Angle Fittings

Standard finish is Zinc Electroplate (EG)
Product finishes and materials are on page 10 • Note: May be available with 7/16" holes

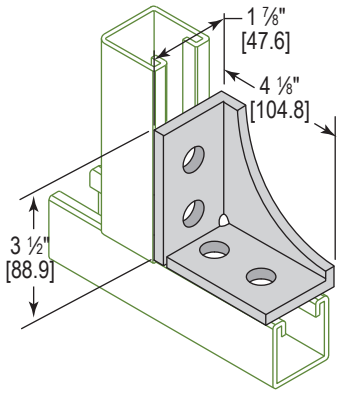
PHOENIX® SUPPORT SYSTEMS

## L35
4 Hole Gusset Corner Angle Left



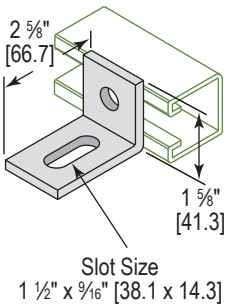

*Catalog Number: L35 0000EG*
*Weight: 1.15 Lbs.*

## L36
4 Hole Gusset Corner Angle Right



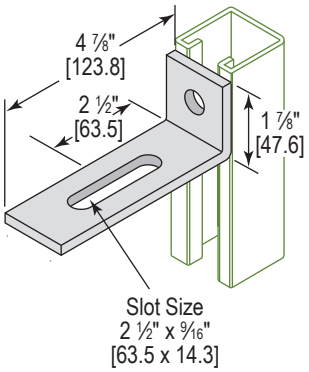

*Catalog Number: L36 0000EG*
*Weight: 1.2 Lbs.*

## L40
2 Hole 2 5/8" Adjustable Corner Angle



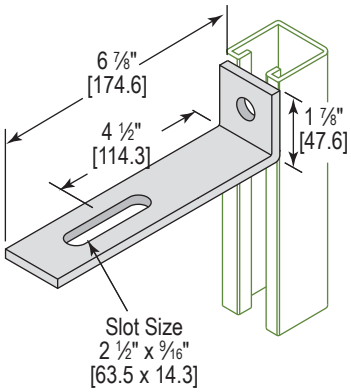

*Catalog Number: L40 0000EG*
*Weight: 0.35 Lbs.*

## L41
2 Hole 4 7/8" Adjustable Corner Angle



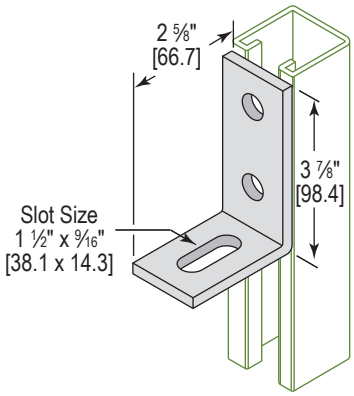

*Catalog Number: L41 0000EG*
*Weight: 0.58 Lbs.*

## L42
2 Hole 6 7/8" Adjustable Corner Angle




*Catalog Number: L42 0000EG*
*Weight: 0.8 Lbs.*

## L43
3 Hole Adjustable Corner Angle




*Catalog Number: L43 0000EG*
*Weight: 0.7 Lbs.*

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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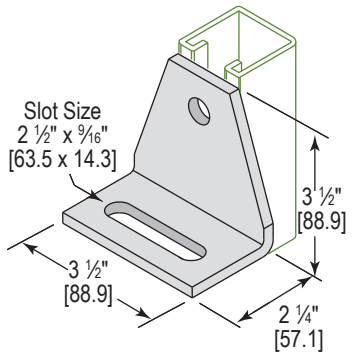
## L44

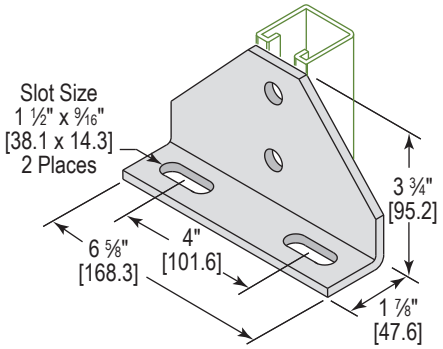
2 Hole Adjustable Gusset Corner Angle




*Catalog Number: L44 0000EG*
*Weight: 0.87 Lbs.*

## L45

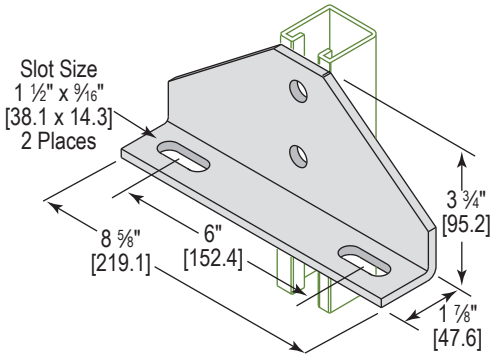
4 Hole 6⅝" Adjustable Gusset Corner Angle




*Catalog Number: L45 0000EG*
*Weight: 1.62 Lbs.*

## L46

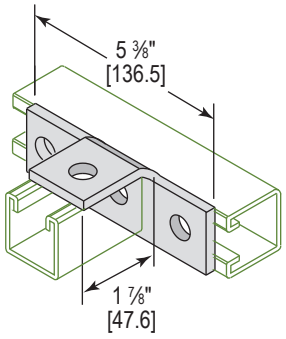
4 Hole 8⅝"Adjustable Corner Angle




*Catalog Number: L46 0000EG*
*Weight: 2.4 Lbs.*

## L50

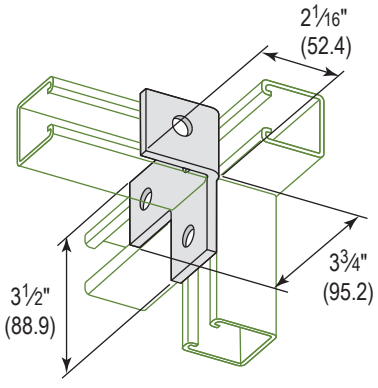
4 Hole Offset Corner Angle




*Catalog Number: L50 0000EG*
*Weight: 0.71 Lbs.*

## L51

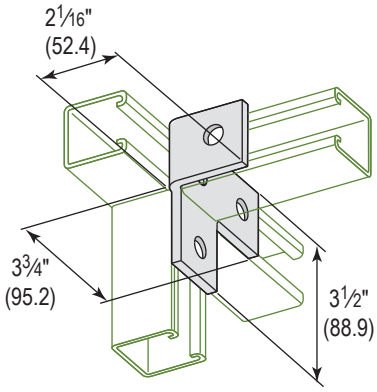
4 Hole Offset Bent Tee (left hand)




*Catalog Number: L51 0000EG*
*Weight: 0.71 Lbs.*

## L52

4 Hole Offset Bent Tee (right hand)




*Catalog Number: L52 0000EG*
*Weight: 0.71 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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# Angle Fittings

Standard finish is Zinc Electroplate (EG)

Product finishes and materials are on page 10 • Note: May be available with 7/16" holes

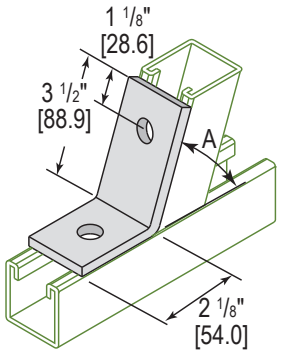
PHOENIX® SUPPORT SYSTEMS

## L60

2 Hole Open 45 Degree* Corner Angle

* "A" is available in any angle up to 90°

Dimensions shown may vary based on specified angle "A"




| Catalog Number | "A" |
|---|---|
| L60 0000EG | 45° |
| L60 0030EG | 30° |
| L60 0060EG | 60° |

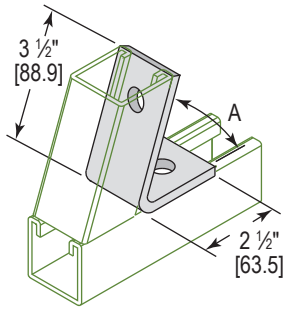
*Catalog Number: L60 0000EG*
*Weight: 0.58 Lbs.*

## L61

2 Hole Closed 45 Degree* Corner Angle

* "A" is available in any angle up to 90°

Dimensions shown may vary based on specified angle "A"




| Catalog Number | "A" |
|---|---|
| L61 0000EG | 45° |
| L61 0030EG | 30° |
| L61 0060EG | 60° |

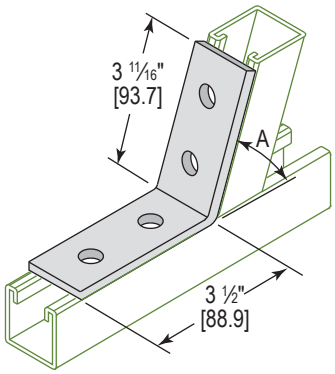
*Catalog Number: L61 0000EG*
*Weight: 0.56 Lbs.*

## L62

4 Hole Open 45 Degree* Corner Angle

* "A" is available in any angle up to 90°

Dimensions shown may vary based on specified angle "A"




| Catalog Number | "A" |
|---|---|
| L62 0000EG | 45° |
| L62 0030EG | 30° |
| L62 0060EG | 60° |

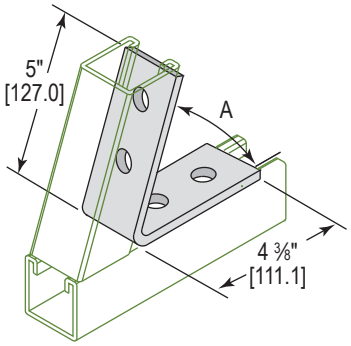
*Catalog Number: L62 0000EG*
*Weight: 0.76 Lbs.*

## L63

4 Hole Closed 45 Degree* Corner Angle

* "A" is available in any angle up to 90°

Dimensions shown may vary based on specified angle "A"




| Catalog Number | "A" |
|---|---|
| L63 0000EG | 45° |
| L63 0060EG | 60° |

*Catalog Number: L63 0000EG*
*Weight: 0.93 Lbs.*

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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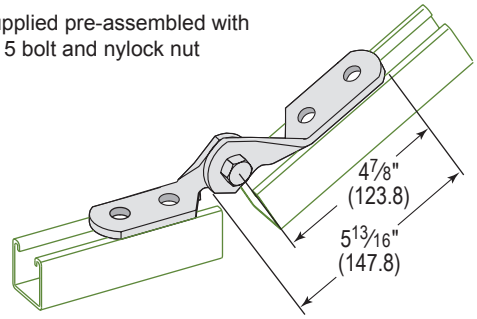
## L64

4 Hole Adjustable Corner Angle

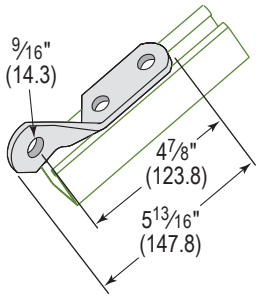
Note: Supplied pre-assembled with ½" grade 5 bolt and nylock nut




*Catalog Number: L64 0000EG*
*Weight: 1.26 Lbs.*

## L64H

2 Hole Adjustable Angle Half

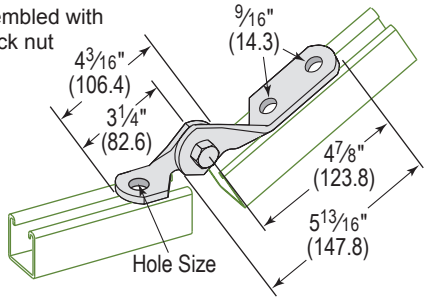



*Catalog Number: L65H 0000EG*
*Weight: 0.53 Lbs.*

## L65

3 Hole Adjustable Corner Angle

Note: Supplied pre-assembled with ½" grade 5 bolt and nylock nut

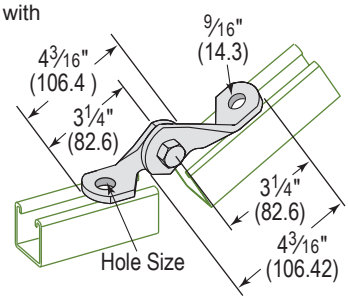



| Catalog Number | Wt. lbs | Bolt Size | | Hole Size | |
|---|---|---|---|---|---|
| | | in | mm | in | mm |
| L65 0037EG | 1.07 | 3/8" | 8 | 7/16" | 11.1 |
| L65 0050EG | 1.07 | 1/2" | 12 | 9/16" | 14.3 |
| L65 0062EG | 1.07 | 5/8" | 16 | 11/16" | 17.5 |

## L66

2 Hole Adjustable Corner Angle

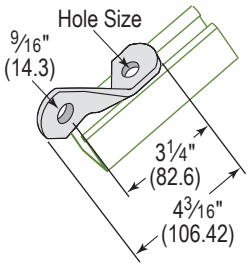
Note: Supplied pre-assembled with ½" grade 5 bolt and nylock nut




| Catalog Number | Wt. lbs | Bolt Size | | Hole Size | |
|---|---|---|---|---|---|
| | | in | mm | in | mm |
| L66 0037EG | 0.78 | 3/8" | 8 | 7/16" | 11.1 |
| L66 0050EG | 0.78 | 1/2" | 12 | 9/16" | 14.3 |
| L66 0062EG | 0.78 | 5/8" | 16 | 11/16" | 17.5 |

## L66H

1 Hole Adjustable Angle Half




| Catalog Number | Wt. lbs | Bolt Size | | Hole Size | |
|---|---|---|---|---|---|
| | | in | mm | in | mm |
| L66H0037EG | 0.39 | 3/8" | 8 | 7/16" | 11.1 |
| L66H0050EG | 0.39 | 1/2" | 12 | 9/16" | 14.3 |
| L66H0062EG | 0.39 | 5/8" | 16 | 11/16" | 17.5 |

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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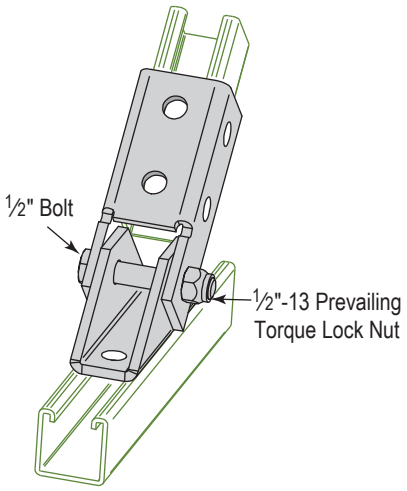
# Angle Fittings

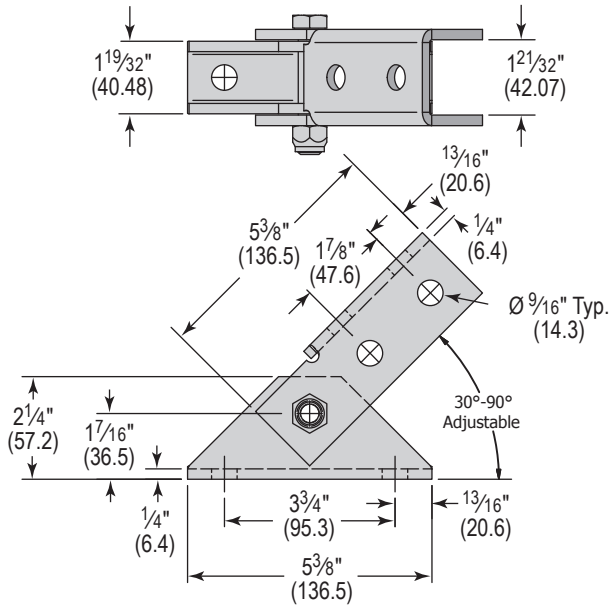
Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10

PHOENIX® SUPPORT SYSTEMS

## L67

Adjustable Brace Fitting

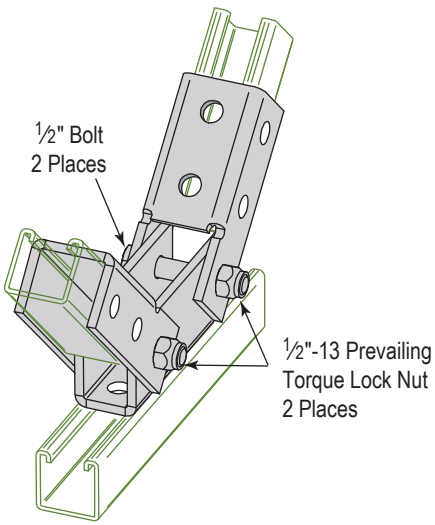


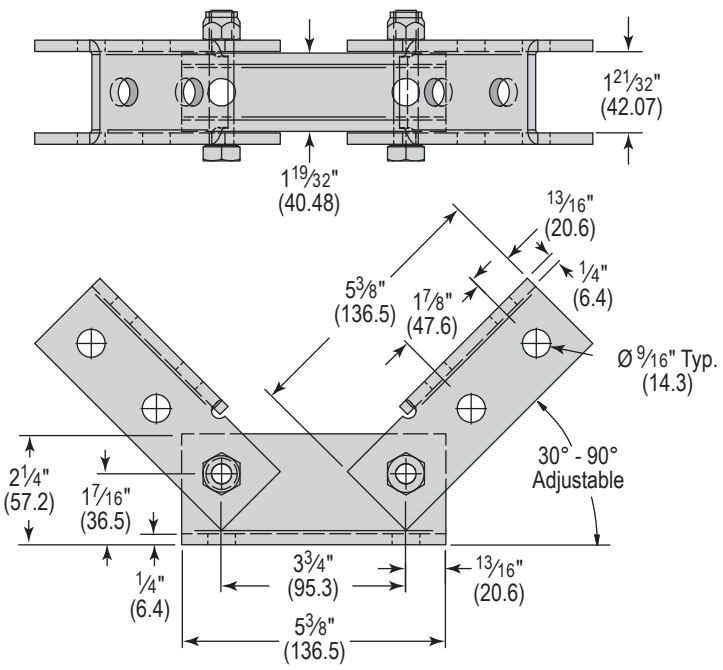




*Catalog Number: L67 0000EG*
*Weight: 3.07 Lbs.*

## L68

Double Adjustable Brace Fitting




*Catalog Number: L68 0000EG*
*Weight: 4.97 Lbs.*

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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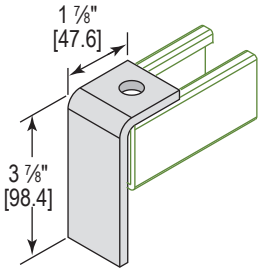
## L70

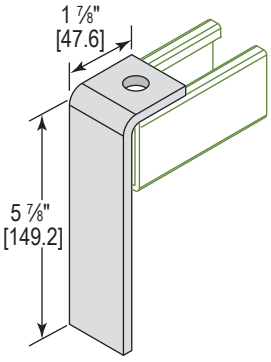
1 Hole 3⅞" Corner Angle




*Catalog Number: L70 0000EG*
*Weight: 0.56 Lbs.*

## L71

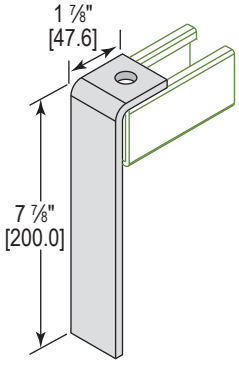
1 Hole 5⅞" Corner Angle




*Catalog Number: L71 0000EG*
*Weight: 0.85 Lbs.*

## L72

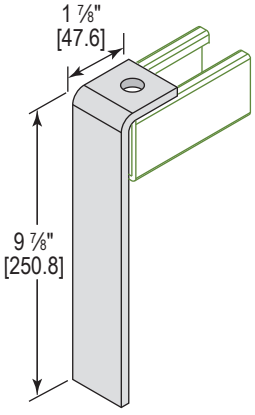
1 Hole 7⅞" Corner Angle




*Catalog Number: L72 0000EG*
*Weight: 1.0 Lbs.*

## L73

1 Hole 9⅞" Corner Angle




*Catalog Number: L73 0000EG*
*Weight: 1.21 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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# Angle Fittings

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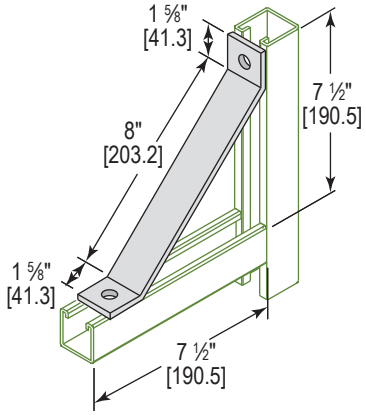
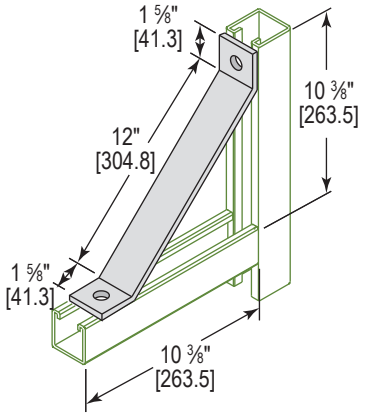
PHOENIX® SUPPORT SYSTEMS

## L80
8" Angle Brace



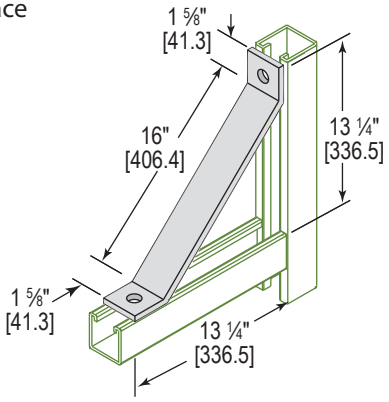

*Catalog Number: L80 0000EG*
*Weight: 1.19 Lbs.*

## L81
12" Angle Brace



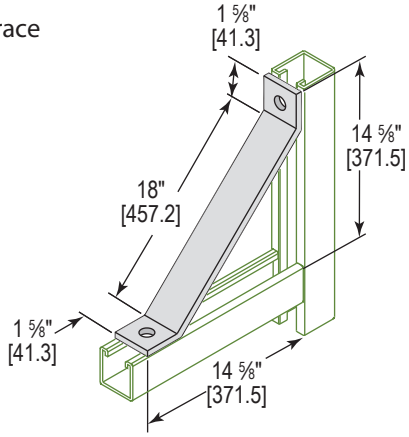

*Catalog Number: L81 0000EG*
*Weight: 1.65 Lbs.*

## L82
16" Angle Brace



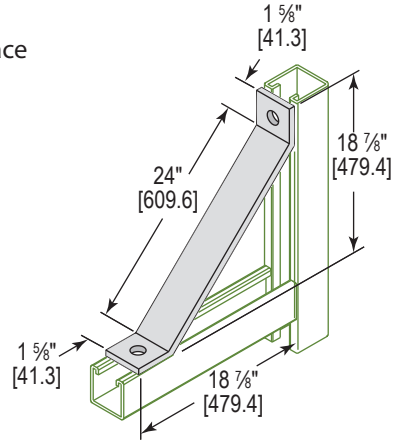

*Catalog Number L82 0000EG*
*Weight: 2.18 Lbs.*

## L83
18" Angle Brace




*Catalog Number L83 0000EG*
*Weight: 2.34 Lbs.*

## L84
24" Angle Brace




*Catalog Number L84 0000EG*
*Weight: 3.03 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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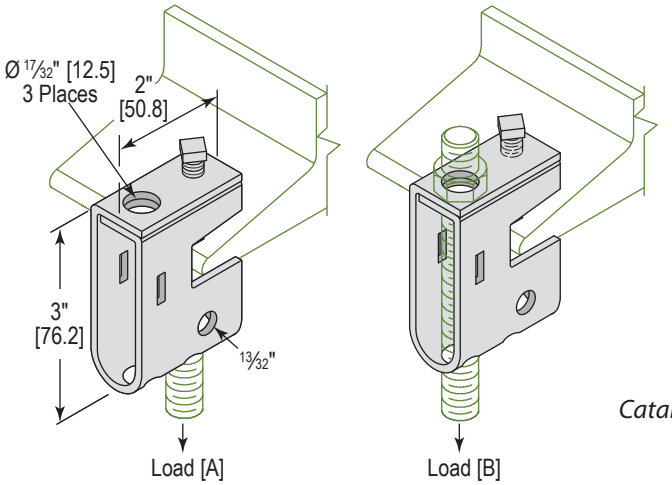
## BC10

Beam Clamp Formed Steel

Maximum rod size ½" [12]

Maximum flange thickness ¾" [19]

If swivel is required use BC12 Swivel Nut.




| Position | Design Load | |
|---|---|---|
| | lbs | kN |
| A | 500 | 2.22 |
| B | 300 | 1.33 |

*Catalog Number: BC100000EG*
*Weight: 0.42 Lbs.*

## BC11

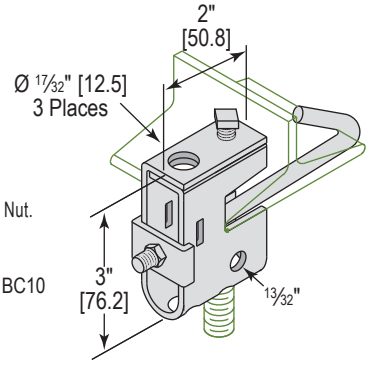
Beam Clamp Formed Steel with J-Hook

Maximum rod size ½" [12]

Maximum flange thickness ¾" [19]

If swivel is required use BC12 Swivel Nut.

Design loads are the same as model BC10



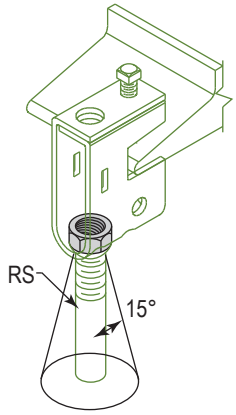

| Catalog Number | Wt. lbs | W | |
|---|---|---|---|
| | | in | mm |
| BC110600EG | 0.78 | 3 thru 6 | 76 thru 152 |
| BC110900EG | 0.83 | 6 thru 9 | 152 thru 228 |
| BC111200EG | 0.88 | 9 thru 12 | 228 thru 305 |

## BC12

Swivel Nut for use with BC10, BC11 and BC14

Provides 15° of swivel in any direction.

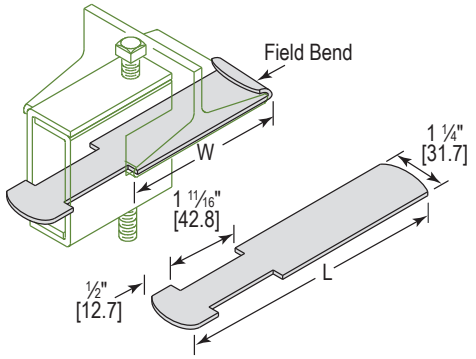
Specify Rod Size (RS) when ordering




| Catalog Number | Wt. lbs | RS |
|---|---|---|
| BC120037EG | 0.015 | 3/8-16 |
| BC120050EG | 0.036 | ½-13 |

## BC13

Beam Clamp Anchor Strap



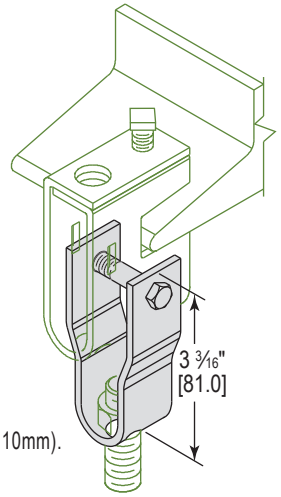

| Catalog Number | Wt. lbs | L | | W * (max) | |
|---|---|---|---|---|---|
| | | in | mm | in | mm |
| BC130600EG | 0.23 | 9 | 228 | 6 | 152 |
| BC130900EG | 0.30 | 12 | 305 | 9 | 228 |
| BC131200EG | 0.38 | 15 | 381 | 12 | 305 |
| BC131500EG | 0.45 | 18 | 457 | 15 | 381 |

** For beam flange greater than ¾" [19mm] thick use next larger flange width size.*

## BC14

Beam Clamp Swivel Adapter for BC10

Design load 500 lb [2.22 kN]




For use with ¼", ⅜" or ½" rod (6mm, 8mm or 10mm).

If swivel is required use BC12 Swivel Nut.

*Catalog Number: BC140000EG*
*Weight: 0.3 Lbs.*



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# Beam Clamps

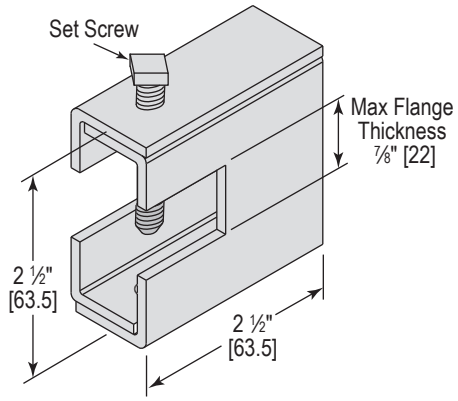
Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

PHOENIX® SUPPORT SYSTEMS

## BC15

Formed Steel Beam Clamp

*Maximum flange thickness 7/8" [22]*

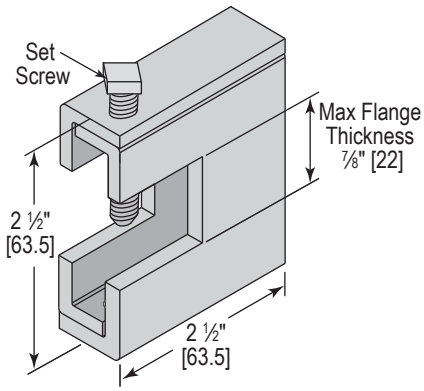



| Catalog Number | Wt. lbs | Rod Size | Set Screw | Thickness | Design Load | |
|---|---|---|---|---|---|---|
| | | | | | lbs | kN |
| BC150025EG | 0.67 | 1/4" | 3/8" - 16 | 1/8" | 650 | 2.89 |
| BC150031EG | 0.67 | 5/16" | 3/8" - 16 | 1/8" | 650 | 2.89 |
| BC150037EG | 0.67 | 3/8" | 3/8" - 16 | 1/8" | 650 | 2.89 |
| BC150050EG | 1.00 | 1/2" | 1/2" - 13 | 3/16" | 1,100 | 4.89 |

## BC16

Formed Steel **Heavy Duty Beam** Clamp

*Maximum flange thickness 7/8" [22]*

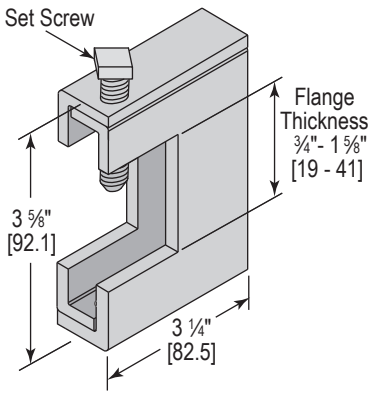



| Catalog Number | Wt. lbs | Rod Size | Set Screw | Thickness | Design Load | |
|---|---|---|---|---|---|---|
| | | | | | lbs | kN |
| BC160037EG | 1.00 | 3/8" | 1/2" - 13 | 3/16" | 1,100 | 4.89 |
| BC160050EG | 1.30 | 1/2" | 1/2" - 13 | 1/4" | 1,600 | 7.12 |
| BC160062EG | 1.60 | 5/8" | 5/8" - 11 | 5/16" | 2,400 | 10.67 |

## BC17

Formed Steel **Heavy Duty Beam** Clamp

*For 3/4" through 1 5/8" [19 through 41] flange thickness*

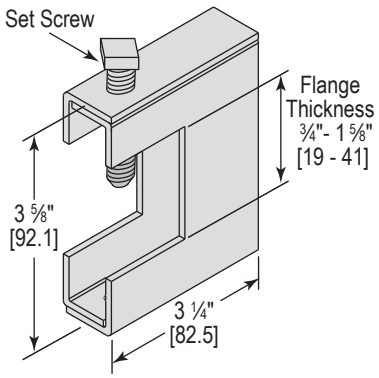



| Catalog Number | Wt. lbs | Rod Size | Set Screw | Thickness | Design Load | |
|---|---|---|---|---|---|---|
| | | | | | lbs | kN |
| BC170037EG | 1.56 | 3/8" | 1/2" - 13 | 3/16" | 1,300 | 5.78 |
| BC170050EG | 2.01 | 1/2" | 1/2" - 13 | 1/4" | 1,900 | 8.45 |
| BC170062EG | 2.51 | 5/8" | 5/8" - 11 | 5/16" | 2,800 | 12.45 |

## BC18

Formed Steel Beam Clamp

*For 3/4" through 1 5/8" [19 through 41] flange thickness*




| Catalog Number | Wt. lbs | Rod Size | Set Screw | Thickness | Design Load | |
|---|---|---|---|---|---|---|
| | | | | | lbs | kN |
| BC180025EG | 1.09 | 1/4" | 3/8" - 16 | 1/8" | 800 | 3.56 |
| BC180031EG | 1.09 | 5/16" | 3/8" - 16 | 1/8" | 800 | 3.56 |
| BC180037EG | 1.09 | 3/8" | 3/8" - 16 | 1/8" | 800 | 3.56 |
| BC180050EG | 1.56 | 1/2" | 1/2" - 13 | 3/16" | 1,300 | 5.78 |





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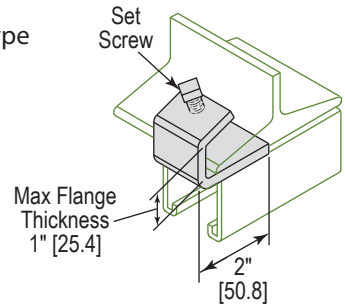
## BC20, BC21

Strut to Beam Clamp C-Type



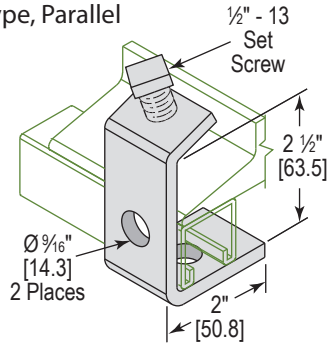

| Catalog Number | Wt. lbs | Set Screw | Material Thickness | Design Load When Used in Pairs |
|---|---|---|---|---|
| BC200000EG | 0.39 | ⅜-16 | ¼" [6.3] | 550 Lbs [2.45 kN] |
| BC210000EG | 0.62 | ½-13 | ⅜" [9.5] | 1000 Lbs [4.45 kN] |

## BC22

Strut to Beam Clamp C-Type, Parallel

*⅜" [9.5] material thickness*

Design load 1000 Lbs [4.45 kN] when used in pairs



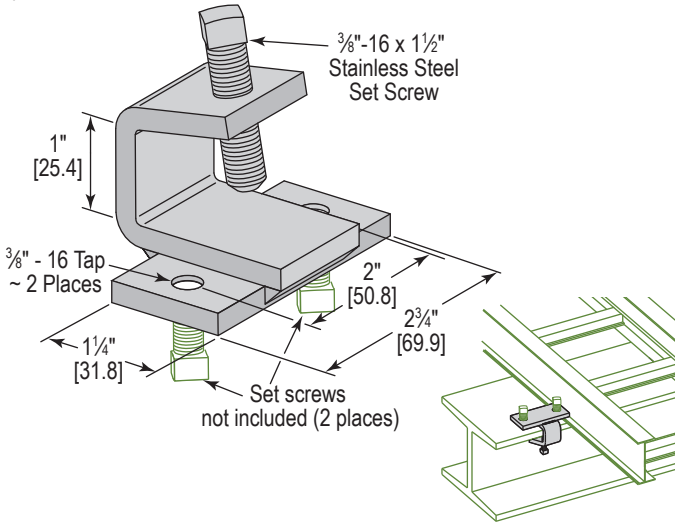

*Catalog Number: BC220000EG*
*Weight: 0.91 Lbs.*

## BC23

Cable Tray Clamp

*Standard finish is hot dip galvanized*

Also available in electro-galvanized finish and Type 304 or 316 stainless steel.



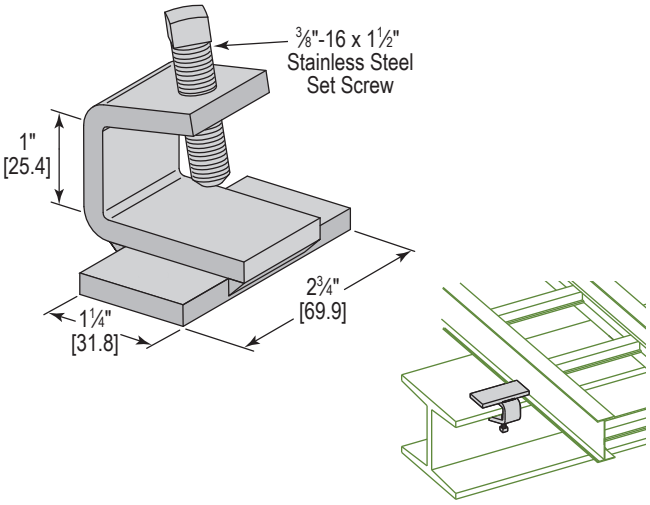

*Catalog Number: BC230000HD*
*Weight: 0.62 Lbs.*

## BC24

Cable Tray Guide

*Standard finish is hot dip galvanized*

Also available in electro-galvanized finish and Type 304 or 316 stainless steel.




*Catalog Number: BC240000HD*
*Weight: 0.621 Lbs.*

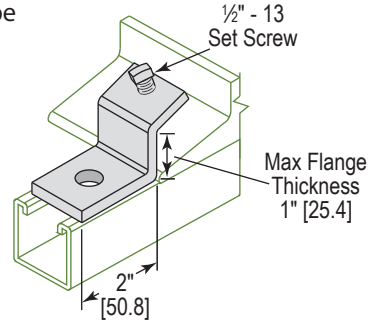
## BC30

Strut to Beam Clamp Z-Type

*⅜" [9.5] material thickness*

Design load 600 Lbs [2.67 kN] when used in pairs

Clamp requires ½"-13 HCS and ½"channel nut, order separately

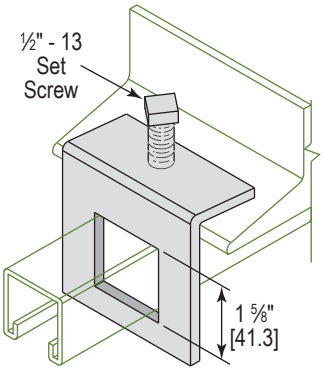



*Catalog Number: BC300000EG*
*Weight: 0.65 Lbs.*

## BC40

Strut to Beam Clamp Window Type

Design load 950 Lbs [4.23 kN] when used in pairs




*Catalog Number: BC400000EG*
*Weight: 1.06 Lbs.*



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# Beam Clamps

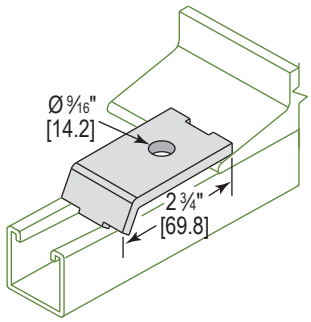
Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

PHOENIX® SUPPORT SYSTEMS

## BC70

Strut to Beam Clamp Notched Type

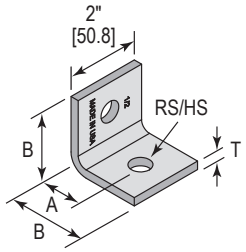
Material is 1⅝" [41.3] wide x ¼" [6.3] thick
Clamp requires ½"-13 HCS and ½"channel nut, order separately
Design load 1100 Lbs [4.89 kN] when used in pairs




*Catalog Number: BC700000EG*
*Weight: 0.29 Lbs.*

## SBB

Side Beam Bracket
*Standard finish is electro-galvanized*
*Also available in Uncoated Steel (PL) finish*



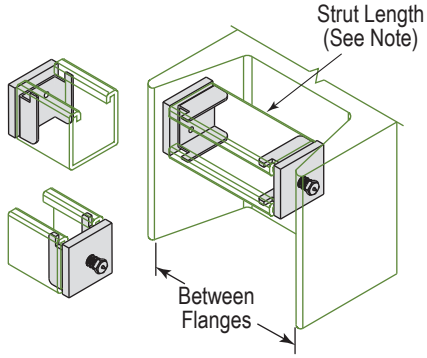

| Catalog Number | Wt. lbs | RS | HS | A | B | T | Max. Design Load With | |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | Lag to Wood | Bolt to Steel |
| SBB0037EG | 0.44 | ⅜-16 | 7/16" [11] | 1-3/16" [30] | 2" [51] | ¼" [6.3] | 650 Lbs [2.89 kN] | 1,150 Lbs [5.12 kN] |
| SBB0050EG | 0.435 | ½-13 | 9/16" [14] | 1-3/16" [30] | 2" [51] | ¼" [6.3] | 650 Lbs [2.89 kN] | 1,150 Lbs [5.12 kN] |
| SBB0062EG | 0.793 | ⅝-11 | 11/16" [18] | 1-½" [38] | 2-½" [64] | ⅜" [9.5] | 850 Lbs [3.78 kN] | 2,000 Lbs [8.89 kN] |

## BC50

Strut to Beam Spreader Caps

Includes 1 adjustable cap and
1 nonadjustable cap, for use with 12 gauge strut

Cut strut length 1¼" to 1⅝" shorter than the average distance between flanges.
Design load 500 Lbs [2.22 kN] when used as a set



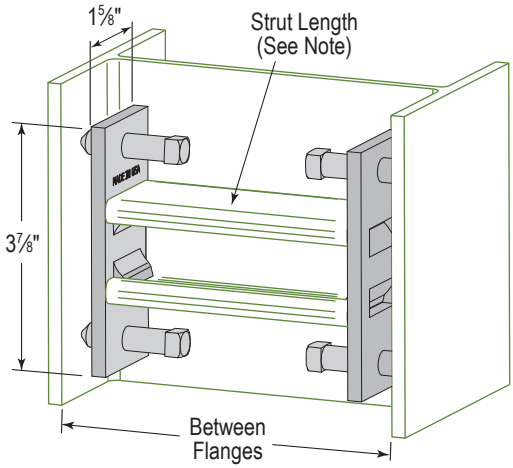

*Catalog Number: BC500000EG*
*Weight: 0.54 Lbs.*

## BC51

Strut to Beam Spreader Caps

Includes 2 adjustable caps.
For use with 12 gauge strut

Cut strut length 1¼" to 1⅝" shorter than the average distance between flanges.
Design load 1000 Lbs [2.22 kN] when used as a set




*Catalog Number: BC510000EG*
*Weight: 1.40 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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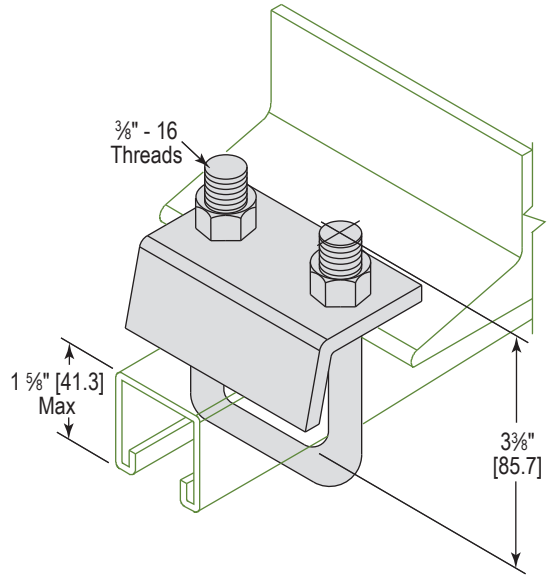
## BC60

Strut to Beam Clamp with Square U-Bolt
*For 13/16" & 1 5/8" Channel*
*For use with flanges up to 3/4" [19.1] thick*

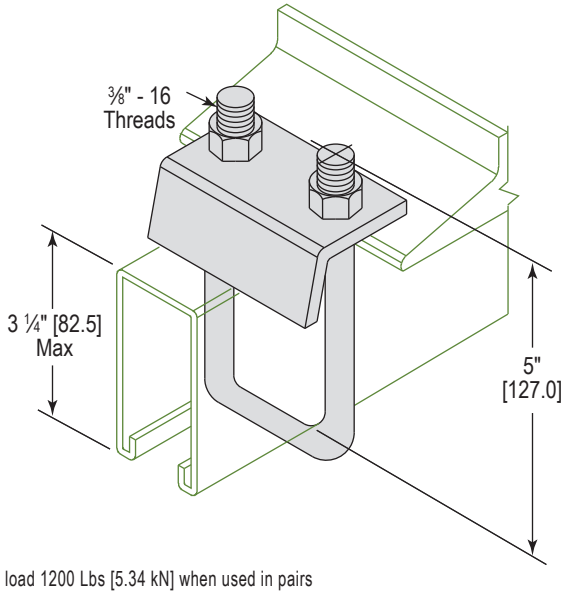



Design load 1200 Lbs [5.34 kN] when used in pairs

*Catalog Number: BC600000EG*
*Weight: 0.72 Lbs.*

## BC61

Strut to Beam Clamp with Square U-Bolt
*For 2 7/16" & 3 1/4" Channel*
*For use with flanges up to 3/4" [19.1] thick*

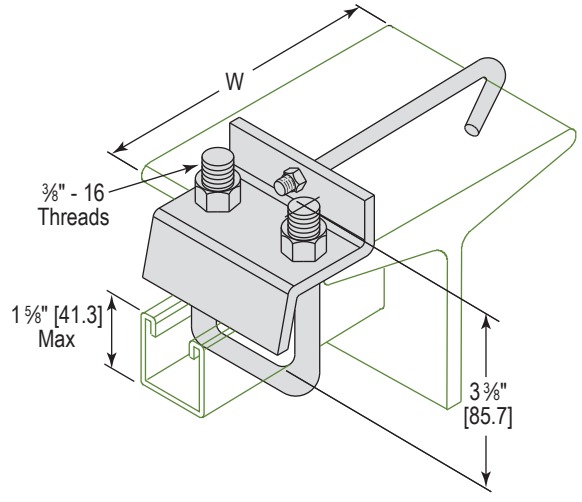



Design load 1200 Lbs [5.34 kN] when used in pairs

*Catalog Number: BC610000EG*
*Weight: 0.79 Lbs.*

## BC62

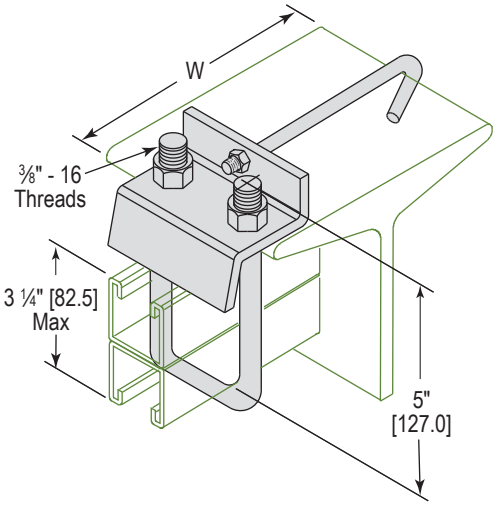
Strut to Beam Clamp with Square U-Bolt and J-Hook
*For 13/16" & 1 5/8" channel*
*For use with flanges up to 3/4" [19.1] thick*




| Catalog Number | Wt. lbs | W | |
|---|---|---|---|
| | | in | mm |
| BC620600EG | 1.16 | 4 to 6 | 101 to 152 |
| BC620900EG | 1.20 | 6 to 9 | 152 to 228 |
| BC621200EG | 1.26 | 9 to 12 | 228 to 305 |

## BC63

Strut to Beam Clamp with Square U-Bolt and J-Hook
*For 2 7/16" & 3 1/4" channel*
*For use with flanges up to 3/4" [19.1] thick*




| Catalog Number | Wt. lbs | W | |
|---|---|---|---|
| | | in | mm |
| BC630600EG | 1.29 | 4 to 6 | 101 to 152 |
| BC630900EG | 1.36 | 6 to 9 | 152 to 228 |
| BC631200EG | 1.42 | 9 to 12 | 228 to 305 |

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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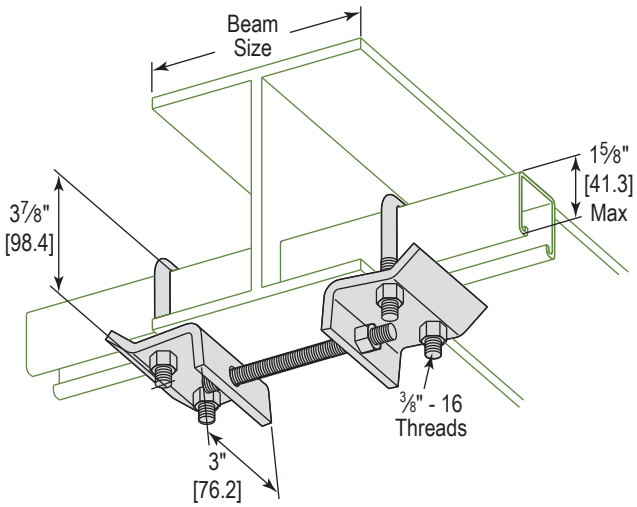
# Beam Clamps

Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

PHOENIX® SUPPORT SYSTEMS

## BC64

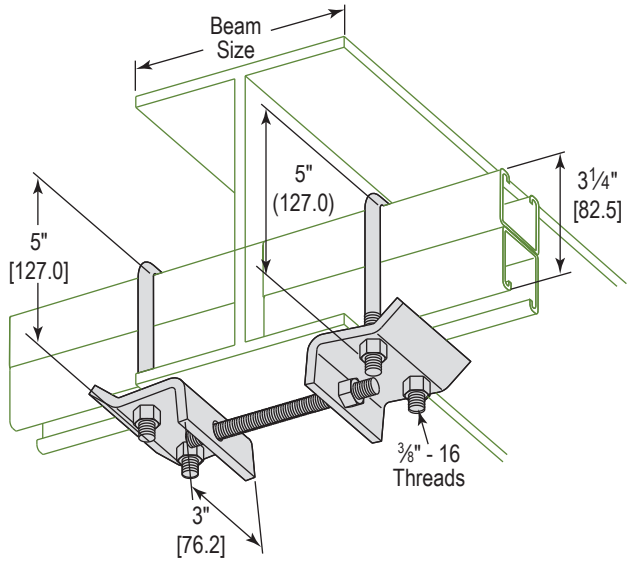
Strut to Beam Clamp with Square U-Bolts & Connecting Stud
*Double for 13/16" & 1 5/8" channel*
*For use with flanges up to 3/4" [19.1] thick*




| Catalog Number | Wt. lbs | Beam Size | |
|---|---|---|---|
| | | in | mm |
| BC640600EG | 2.8 | 4 to 6 | 101 to 152 |
| BC640900EG | 2.89 | 6 to 9 | 152 to 228 |
| BC641200EG | 2.9 | 9 to 12 | 228 to 305 |

## BC65

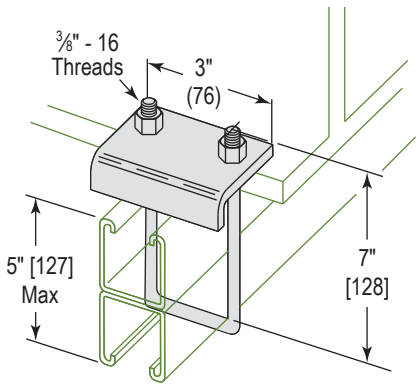
Strut to Beam Clamp with Square U-Bolts & Connecting Stud
*Double for 2 7/16" & 3 1/4" Channel*
*For use with flanges up to 3/4" [19.1] thick*




| Catalog Number | Wt. lbs | Beam Size | |
|---|---|---|---|
| | | in | mm |
| BC650600EG | 3.0 | 4 to 6 | 101 to 152 |
| BC650900EG | 3.1 | 6 to 9 | 152 to 228 |
| BC651200EG | 3.2 | 9 to 12 | 228 to 305 |

## BC66

Strut to Beam Clamp with Square U-Bolt For 5" maximum
*For use with flanges up to 3/4" [19.1] thick*

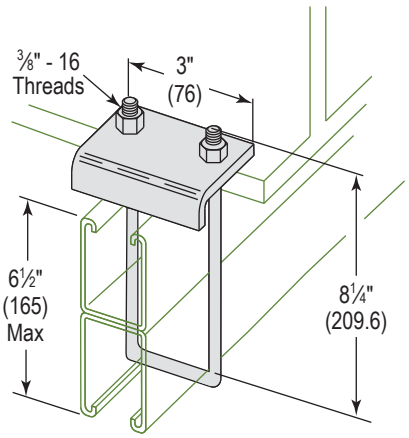



Design load 1200 Lbs [5.34 kN] when used in pairs

*Catalog Number: BC660000EG*
*Weight: 0.92 Lbs.*

## BC68

Strut to Beam Clamp with Square U-Bolt For 6 1/2" maximum
*For use with flanges up to 3/4" [19.1] thick*




Design load 1200 Lbs [5.34 kN] when used in pairs

*Catalog Number: BC680000EG*
*Weight: 1.26 Lbs.*

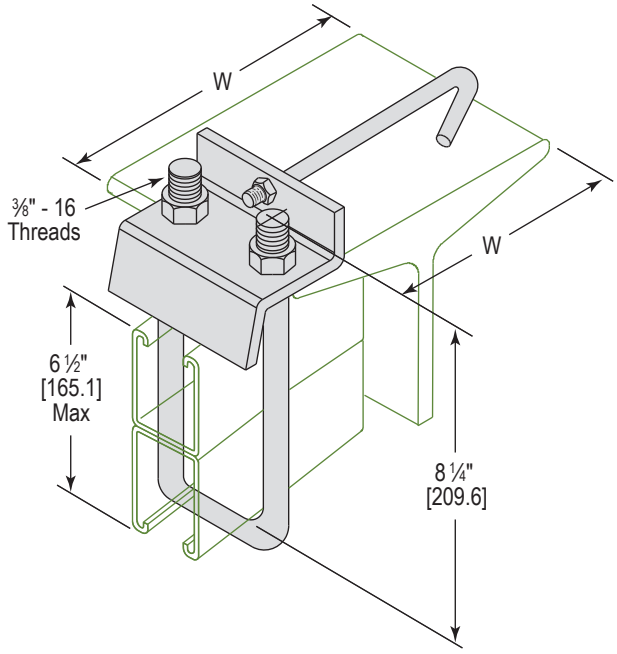
*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## BC69

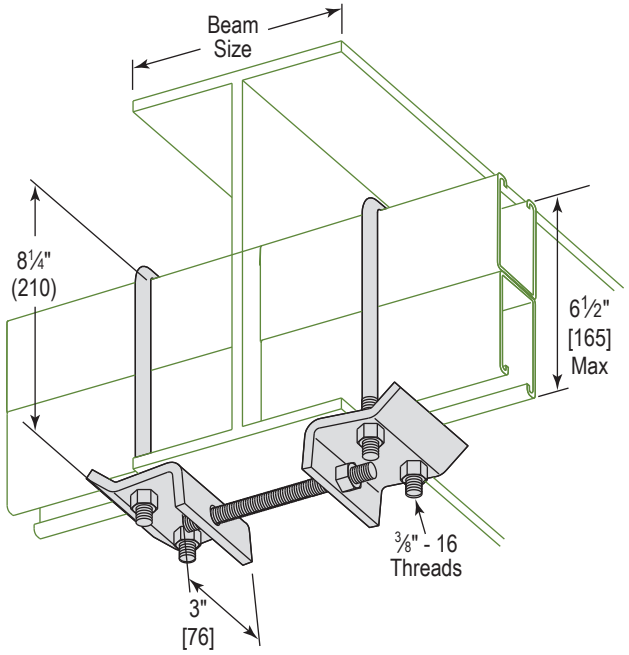
Strut to Beam Clamp with Square U-Bolt and J-Hook
*For 3¼" Back-to-Back channel*
*For use with flanges up to ¾" [19.1] thick*




| Catalog Number | Wt. lbs | W | |
|---|---|---|---|
| | | in | mm |
| BC690600EG | 1.40 | 4 to 6 | 101 to 152 |
| BC690900EG | 1.48 | 6 to 9 | 152 to 228 |
| BC691200EG | 1.54 | 9 to 12 | 228 to 305 |

## BC71

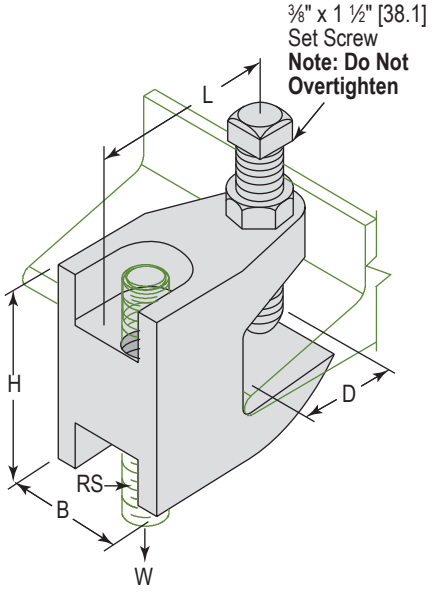
Strut to Beam Clamp Double
*For 3¼" Back-to-Back channel*
*For use with flanges up to ¾" [19.1] thick*




| Catalog Number | Wt. lbs | W | |
|---|---|---|---|
| | | in | mm |
| BC710600EG | 3.5 | 4 to 6 | 101 to 152 |
| BC710900EG | | 6 to 9 | 152 to 228 |
| BC711200EG | | 9 to 12 | 228 to 305 |

## BC80

Malleable Iron Universal Beam Clamp
*Maximum flange thickness of ⅝"*




| Catalog Number | Rod Size (RS) | Max Load W | | Max Pipe Size | | B | | L | | H | | D | | Wt. Lbs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lbs | kN | in | mm | in | mm | in | mm | in | mm | in | mm | |
| BC800037PL<br>BC800037EG | ⅜" – 16 | 350 | 1.56 | 4 | 100 | ⅞ | 22 | 1-5/16 | 33 | 1-½ | 38 | ½ | 13 | 0.32 |
| BC800050PL<br>BC800050EG | ½" – 13 | 470 | 2.09 | 4 | 100 | ⅞ | 22 | 1-5/16 | 33 | 1-½ | 38 | ½ | 13 | 0.32 |
| BC800062PL<br>BC800062EG | ⅝" – 11 | 550 | 2.45 | 5 | 125 | 1⅛ | 29 | 1-¾ | 45 | 1-¾ | 45 | ⅝ | 16 | 0.56 |
| BC800075PL<br>BC800075EG | ¾" – 10 | 700 | 3.11 | 6 | 150 | 1⅜ | 35 | 1-⅞ | 48 | 1-⅞ | 48 | ⅝ | 16 | 0.75 |

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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# Beam Clamps

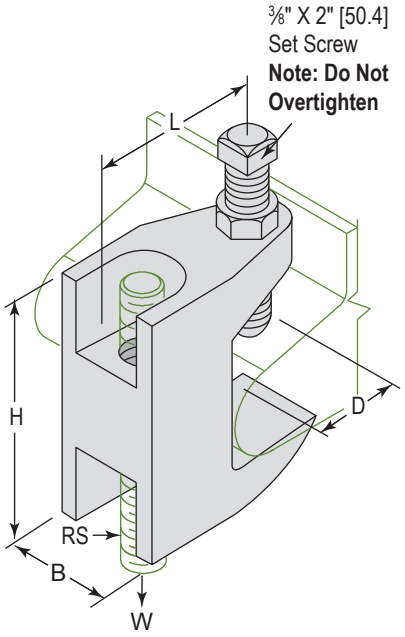
Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

PHOENIX® SUPPORT SYSTEMS

## BC81

Wide Mouth Malleable Iron Universal Beam Clamp

*Maximum flange thickness of 1 1/16"*



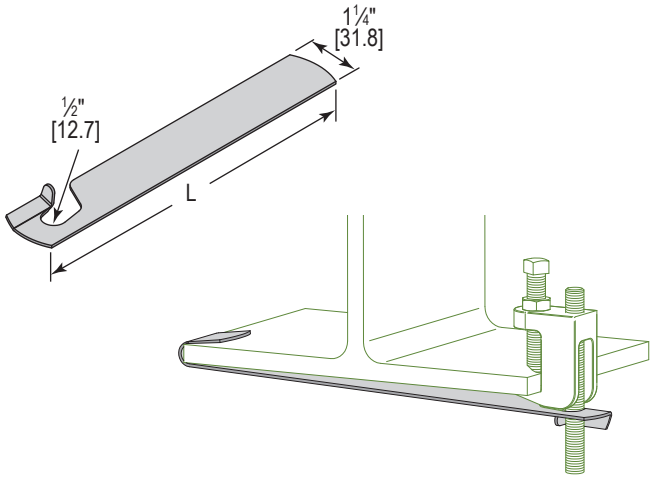

| Catalog Number | Rod Size (RS) | Max Load W | | Max Pipe Size | | B | | L | | H | | D | | Wt. Lbs. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | lbs | kN | In | mm | in | mm | in | mm | in | mm | in | mm | |
| BC810037PL | 3/8" – 16 | 400 | 1.78 | 4 | 100 | 7/8 | 22 | 1-3/8 | 35 | 2 | 50.8 | 1/2 | 13 | 0.41 |
| BC810037EG | | | | | | | | | | | | | | |
| BC810050PL | 1/2" – 13 | 500 | 2.22 | 4 | 100 | 7/8 | 22 | 1-3/8 | 35 | 2 | 50.8 | 1/2 | 13 | 0.41 |
| BC810050EG | | | | | | | | | | | | | | |
| BC810062PL | 5/8" – 11 | 500 | 2.22 | 4 | 100 | 1 1/4 | 32 | 1-7/8 | 48 | 2-3/8 | 60.3 | 5/8 | 15.9 | 0.75 |
| BC810062EG | | | | | | | | | | | | | | |

## RBS

Retrofit Beam Clamp Retaining Strap

For use with 3/8" and 1/2"Rod Sizes

c UL us LISTED



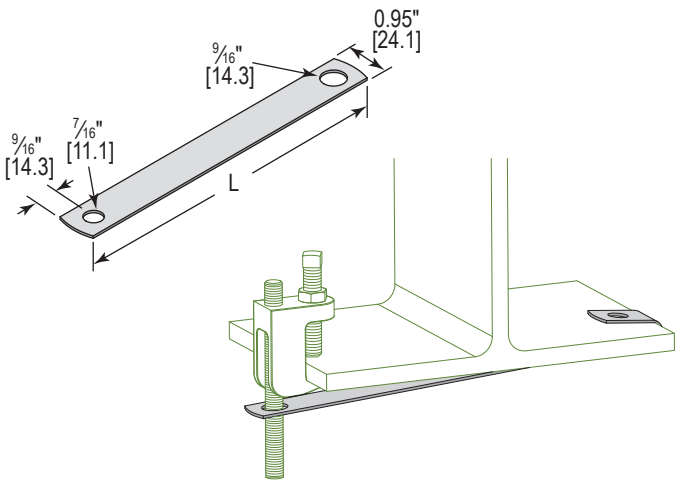

| Catalog Number | Gauge | Beam Size | | Length | | Wt. lbs |
|---|---|---|---|---|---|---|
| | | In. | mm | In. | mm | |
| RBS 0600PG | 16 Gauge (0.054 - 0.065") | 6" | 152 | 8" | 203 | 0.158 |
| RBS 0800PG | | 8" | 203 | 10" | 254 | 0.204 |
| RBS 1000PG | | 10" | 254 | 12" | 305 | 0.249 |
| RBS 1200PG | | 12" | 305 | 14" | 356 | 0.295 |
| RBS 1400PG | | 14" | 356 | 16" | 406 | 0.340 |

## RS

Beam Clamp Retaining Strap

For use with 3/8" and 1/2" Rod Sizes

c UL us LISTED




| Catalog Number | Gauge | Beam Size | | Length | | Wt. lbs |
|---|---|---|---|---|---|---|
| | | In. | mm | In. | mm | |
| RS 0600PG | 16 Gauge (0.054 - 0.065") | 6" | 152 | 8" | 203 | 0.122 |
| RS 0800PG | | 8" | 203 | 10" | 254 | 0.157 |
| RS 1000PG | | 10" | 254 | 12" | 305 | 0.191 |
| RS 1200PG | | 12" | 305 | 14" | 356 | 0.226 |
| RS 1400PG | | 14" | 356 | 16" | 406 | 0.260 |

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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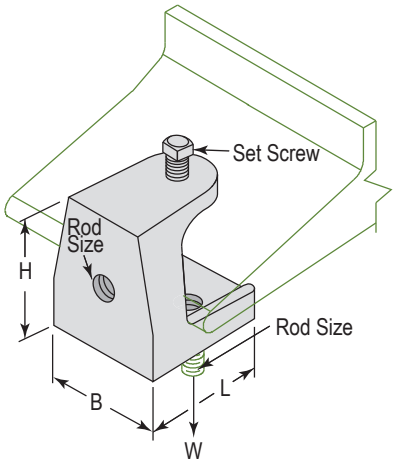
## BC90

Malleable Iron Rod Support Beam Clamp



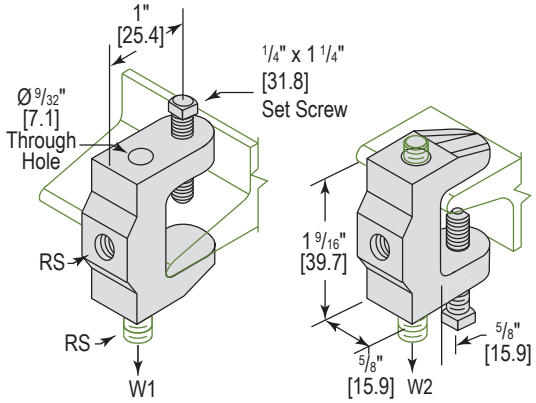

| Catalog Number | Wt. lbs | Rod Size | Maximum Flange Thickness | Set Screw Size | Max Load (W) | |
|---|---|---|---|---|---|---|
| | | | | | lbs | kN |
| BC900025EG | 0.20 | ¼"–20 | ⅝" | 5/16"-18 | 335 | 1.49 |
| BC900037EG | 0.67 | ⅜"–16 | ⅝" | ½"–13 | 525 | 2.34 |
| BC900050EG | 1.22 | ½"–13 | ¾" | ½"–13 | 750 | 3.34 |

| Catalog Number | B | | L | | H | |
|---|---|---|---|---|---|---|
| | in | mm | in | mm | in | mm |
| BC900025EG | 1 | 25.4 | 1⅜ | 34.9 | 1⅜ | 34.9 |
| BC900037EG | 2 1/16 | 52.4 | 1⅞ | 47.6 | 1¾ | 44.4 |
| BC900050EG | 2½ | 63.5 | 2⅜ | 60.3 | 2 3/16 | 55.6 |

## BC91

Malleable Iron Universal Beam Clamp

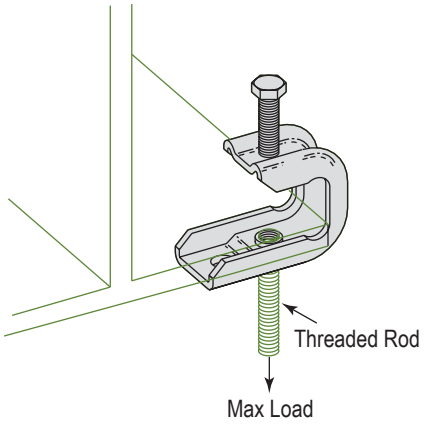
*Maximum flange thickness of ⅝*




| Catalog Number | Wt. lbs | Rod Size (RS) | Max Load W1 | | Max Load W2 | |
|---|---|---|---|---|---|---|
| | | | lbs | kN | lbs | kN |
| BC910025EG | .24 | ¼" – 20 | 100 | 0.44 | 250 | 1.11 |
| *Note: The threaded hole on the back side of the clamp is not load rated.* | | | | | | |

## BC92

Light Duty Beam Clamp

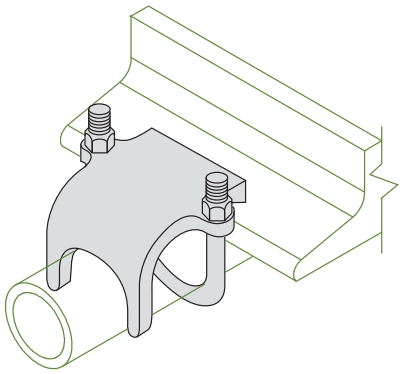



| Catalog Number | Wt. lbs | Rod Size | Max Flange Thickness | Max Load (W) | |
|---|---|---|---|---|---|
| | | | | lbs | kN |
| BC920025EG | 0.30 | ¼"–20 | ⅝" | 100 | 0.44 |
| BC920037EG | 0.90 | ⅜"–16 | ¾" | 200 | 0.89 |

## RA

Right Angle Clamp

*Standard finish is hot dip galvanized*



| Catalog Number | Wt. lbs | Pipe Size | |
|---|---|---|---|
| | | in | mm |
| RA 0050HD | 0.38 | ½ | 15 |
| RA 0075HD | 0.41 | ¾ | 20 |
| RA 0100HD | 0.46 | 1 | 25 |
| RA 0125HD | 0.49 | 1¼ | 32 |
| RA 0150HD | 0.59 | 1½ | 40 |
| RA 0200HD | 0.88 | 2 | 50 |
| RA 0250HD | 1.09 | 2½ | 65 |
| RA 0300HD | 1.31 | 3 | 80 |
| RA 0350HD | 1.48 | 3½ | 90 |
| RA 0400HD | 1.66 | 4 | 100 |

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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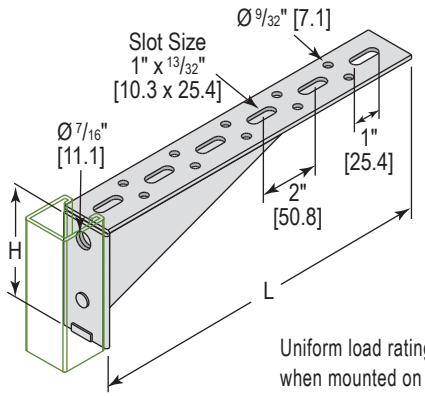
# Brackets

Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

PHOENIX® SUPPORT SYSTEMS

## BR8R

Slotted Shelf Bracket (Right Hand)

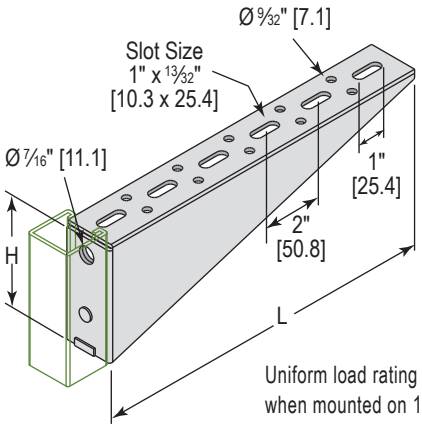



Uniform load rating 250 lbs. [1.11kN] when mounted on 12 gauge channel

| Catalog Number | Wt. lbs | L | | H | |
|---|---|---|---|---|---|
| | | in | mm | in | mm |
| BR8R0600EG | 0.58 | 6 | 152.4 | 2 7/8 | 73.0 |
| BR8R0800EG | 0.83 | 8 | 203.2 | 2 7/8 | 73.0 |
| BR8R1000EG | 1.14 | 10 | 254.0 | 2 7/8 | 73.0 |
| BR8R1200EG | 1.49 | 12 | 304.8 | 3 7/16 | 87.3 |
| BR8R1400EG | 1.74 | 14 | 355.6 | 3 15/16 | 100.0 |
| BR8R1600EG | 2.25 | 16 | 406.4 | 4 7/16 | 112.7 |
| BR8R1800EG | 2.55 | 18 | 457.2 | 4 15/16 | 125.4 |

## BR8L

Slotted Shelf Bracket (Left Hand)

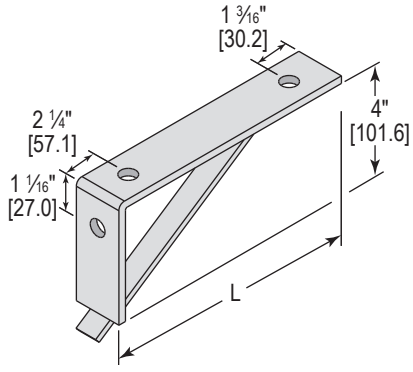



Uniform load rating 250 lbs. [1.11kN] when mounted on 12 gauge channel

| Catalog Number | Wt. lbs | L | | H | |
|---|---|---|---|---|---|
| | | in | mm | in | mm |
| BR8L0600EG | 0.58 | 6 | 152.4 | 2 7/8 | 73.0 |
| BR8L0800EG | 0.83 | 8 | 203.2 | 2 7/8 | 73.0 |
| BR8L1000EG | 1.14 | 10 | 254.0 | 2 7/8 | 73.0 |
| BR8L1200EG | 1.49 | 12 | 304.8 | 3 7/16 | 87.3 |
| BR8L1400EG | 1.74 | 14 | 355.6 | 3 15/16 | 100.0 |
| BR8L1600EG | 2.25 | 16 | 406.4 | 4 7/16 | 112.7 |
| BR8L1800EG | 2.55 | 18 | 457.2 | 4 15/16 | 125.4 |

## BR20

Bracket 3 Hole

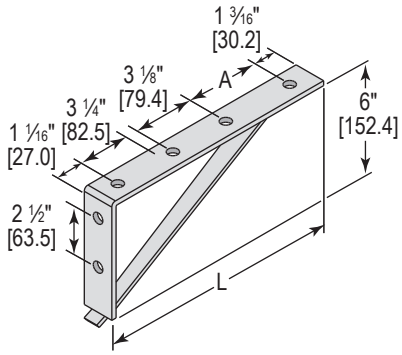



| Catalog Number | Wt. lbs | L | | Uniform Load * | |
|---|---|---|---|---|---|
| | | in | mm | lbs | kN |
| BR200850EG | 1.68 | 8 1/2 | 215.9 | 850 | 3.78 |
| BR201050EG | 2.02 | 10 1/2 | 266.7 | 850 | 3.78 |

** When mounted on 12 gauge channel*

## BR21

Bracket 6 Hole




| Catalog Number | Wt. lbs | L | | A | | Uniform Load * | |
|---|---|---|---|---|---|---|---|
| | | in | mm | in | mm | lbs | kN |
| BR211250EG | 2.58 | 12 1/2 | 317.5 | 3 3/4 | 95.2 | 900 | 4.00 |
| BR211450EG | 2.92 | 14 1/2 | 368.3 | 5 3/4 | 146.0 | 900 | 4.00 |

** When mounted on 12 gauge channel*

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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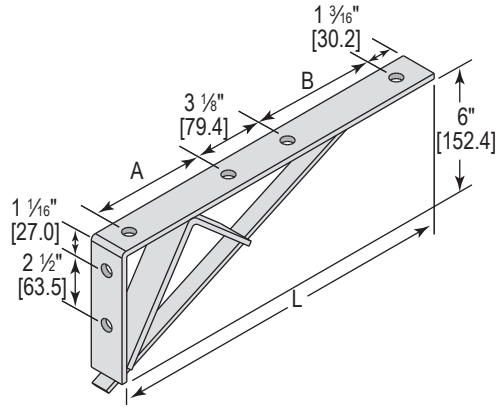
## BR22

Bracket with Brace 6 Hole

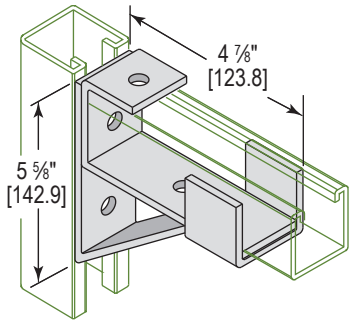



| Catalog Number | Wt. lbs | L | | A | | B | | Uniform Load * | |
|---|---|---|---|---|---|---|---|---|---|
| | | in | mm | in | mm | in | mm | lbs | kN |
| BR221650EG | 3.81 | 16½ | 419.1 | 5¼ | 133.3 | 5¾ | 146.0 | 1200 | 5.34 |
| BR221850EG | 4.16 | 18½ | 469.9 | 5¼ | 133.3 | 7¾ | 196.8 | 1100 | 4.89 |
| BR222050EG | 4.61 | 20½ | 520.7 | 7¼ | 184.1 | 7¾ | 196.8 | 900 | 4.00 |

** When mounted on 12 gauge channel*

## BR30

Bracket for 1⅝" Channel




Maximum Moment 5,800 in.lb. (655 Nm) *

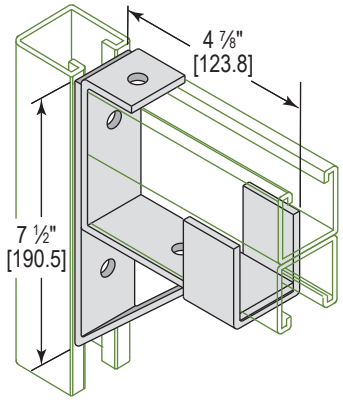
* When mounted on 12 gauge channel

Max load applies to bracket only, not the strength of the strut arm.

*Catalog Number: BR300000EG*
*Weight: 2.46 Lbs.*

## BR31

Bracket for 3¼" Channel




Maximum Moment 12,500 in.lb. (1412 Nm) *

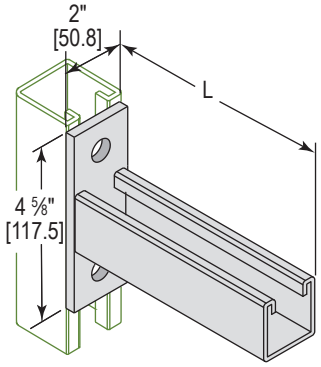
* When mounted on 12 gauge channel

Max load applies to bracket only, not the strength of the strut arm

*Catalog Number: BR310000EG*
*Weight: 2.84 Lbs.*

## BR40

Bracket Channel 1⅝" Channel 2 Hole




| Catalog Number | Wt. Lbs. | L | | Uniform Load * | |
|---|---|---|---|---|---|
| | | in | mm | lbs | kN |
| BR400600EG | 1.85 | 6 | 152.4 | 1250 | 5.56 |
| BR400900EG | 2.31 | 9 | 228.6 | 1000 | 4.45 |
| BR401200EG | 2.36 | 12 | 304.8 | 750 | 3.34 |
| BR401800EG | 3.28 | 18 | 457.2 | 500 | 2.22 |
| BR402400EG | 4.49 | 24 | 609.6 | 350 | 1.56 |

** When mounted on 12 gauge channel*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9⁄16" (14.3) diameter, 13⁄16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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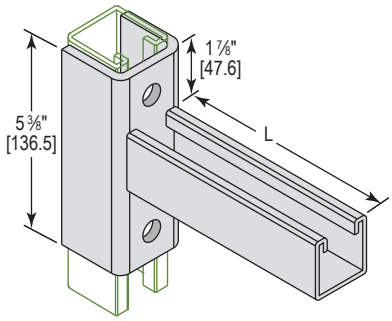
# Brackets

Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

## BR41

Bracket Channel Wrap Around 1⅝" Channel

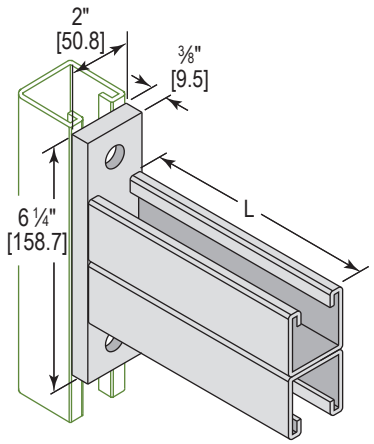



| Catalog Number | Wt. lbs | L | | Uniform Load * | |
|---|---|---|---|---|---|
| | | in | mm | lbs | kN |
| BR410600EG | 1.85 | 6 | 152.4 | 1250 | 5.56 |
| BR411200EG | 2.86 | 12 | 304.8 | 1000 | 4.45 |
| BR411800EG | 4.31 | 18 | 457.2 | 750 | 3.34 |
| BR412400EG | 5.14 | 24 | 609.6 | 500 | 2.22 |

** When mounted on 12 gauge channel*

## BR42

Bracket Double 1⅝" Channel

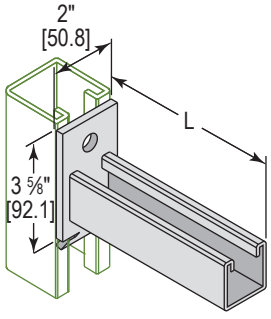



| Catalog Number | Wt. lbs | L | | Uniform Load * | |
|---|---|---|---|---|---|
| | | in | mm | lbs | kN |
| BR421200EG | 4.92 | 12 | 304.8 | 1800 | 8.01 |
| BR421800EG | 6.78 | 18 | 457.2 | 1200 | 5.34 |
| BR422400EG | 8.68 | 24 | 609.6 | 1000 | 4.45 |
| BR423000EG | 10.5 | 30 | 762.0 | 800 | 3.56 |
| BR423600EG | 12.52 | 36 | 914.4 | 660 | 2.94 |

** When mounted on 12 gauge channel*

## BR43

Bracket Channel Notched, Up

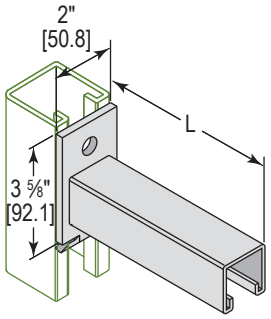



| Catalog Number | Wt. lbs | L | | Uniform Load * | |
|---|---|---|---|---|---|
| | | in | mm | lbs | kN |
| BR430600EG | 1.51 | 6 | 152.4 | 1250 | 5.56 |
| BR430900EG | 1.97 | 9 | 228.6 | 1000 | 4.45 |
| BR431200EG | 2.55 | 12 | 304.8 | 750 | 3.34 |
| BR431800EG | 3.51 | 18 | 457.2 | 500 | 2.22 |
| BR432400EG | 4.28 | 24 | 609.6 | 350 | 1.56 |

** When mounted on 12 gauge channel*

## BR44

Bracket Channel Notched, Down




| Catalog Number | Wt. lbs | L | | Uniform Load * | |
|---|---|---|---|---|---|
| | | in | mm | lbs | kN |
| BR440600EG | 1.51 | 6 | 152.4 | 1250 | 5.56 |
| BR440900EG | 1.97 | 9 | 228.6 | 1000 | 4.45 |
| BR441200EG | 2.55 | 12 | 304.8 | 750 | 3.34 |
| BR441800EG | 3.51 | 18 | 457.2 | 500 | 2.22 |
| BR442400EG | 4.28 | 24 | 609.6 | 350 | 1.56 |

** When mounted on 12 gauge channel*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are ⁹⁄₁₆" (14.3) diameter, ¹³⁄₁₆" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*

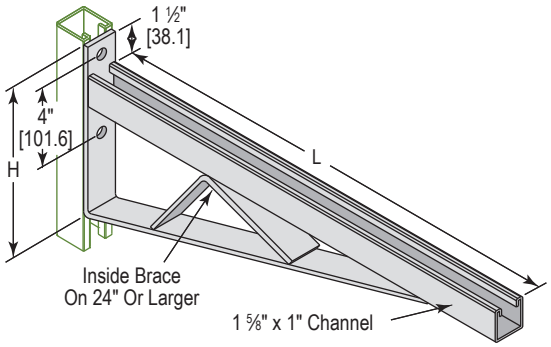





**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## BR45

Bracket Channel

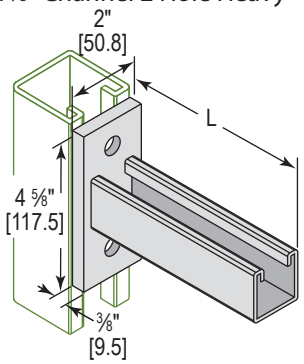



| Catalog Number | Wt. lbs | L | | H | | Uniform Load * | |
|---|---|---|---|---|---|---|---|
| | | in | mm | in | mm | lbs | kN |
| BR451200EG | 3.71 | 12 | 304.8 | 8¾ | 222.2 | 1580 | 7.03 |
| BR451800EG | 4.88 | 18 | 457.2 | 8¾ | 222.2 | 1000 | 4.45 |
| BR452400EG | 7.41 | 24 | 609.6 | 8¾ | 222.2 | 990 | 4.40 |
| BR453000EG | 9.88 | 30 | 762.0 | 11¼ | 285.7 | 920 | 4.09 |
| BR453600EG | 10.83 | 36 | 914.4 | 11¼ | 285.7 | 860 | 3.83 |

** When mounted on 12 gauge channel*

## BR46

Bracket Channel 1⅝" Channel 2 Hole Heavy

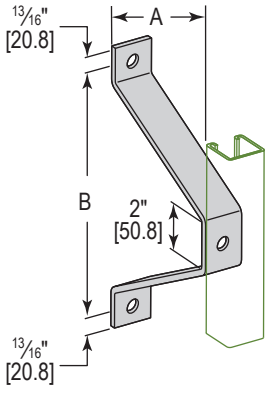



| Catalog Number | Wt. lbs | L | | Uniform Load * | |
|---|---|---|---|---|---|
| | | in | mm | lbs | kN |
| BR460600EG | 1.850 | 6 | 152.4 | 1250 | 5.56 |
| BR460900EG | 2.510 | 9 | 228.6 | 1000 | 4.45 |
| BR461200EG | 3.380 | 12 | 304.8 | 750 | 3.34 |
| BR461800EG | 4.010 | 18 | 457.2 | 500 | 2.22 |
| BR462400EG | 5.090 | 24 | 609.6 | 350 | 1.56 |

** When mounted on 12 gauge channel*

## BR47

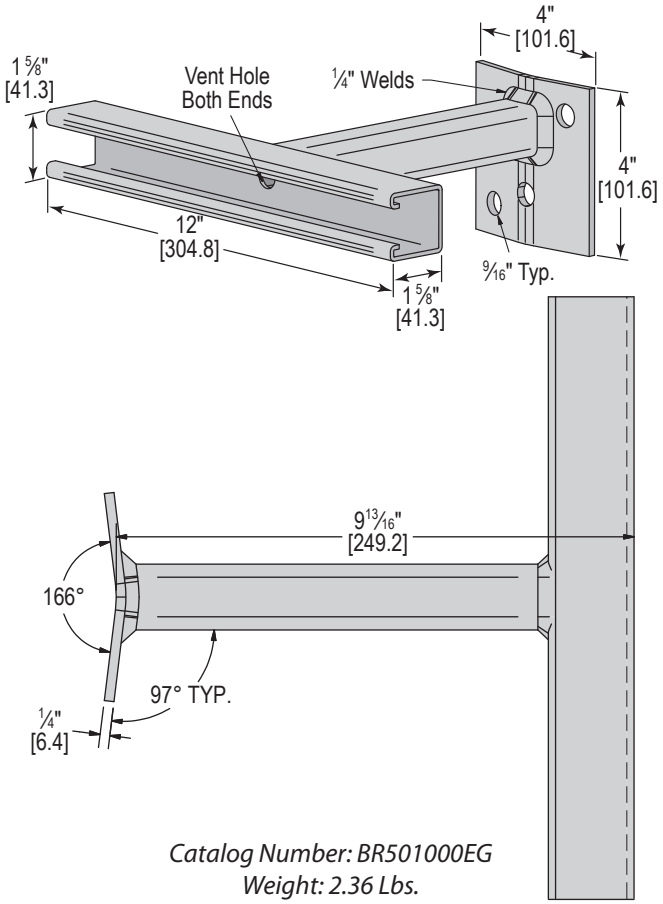
Ladder Bracket




| Catalog No. | A | B | Wt.lbs |
|---|---|---|---|
| BR470237EG | 2⅜" | 6" | 1.10 |
| BR470437EG | 4⅜" | 8" | 1.64 |
| BR470637EG | 6⅜" | 10" | 2.00 |
| BR470837EG | 8⅜" | 12" | 2.53 |
| BR471037EG | 10⅜" | 14" | 3.28 |

## BR50

Utility Pole Bracket – Extended Standoff




*Catalog Number: BR501000EG*
*Weight: 2.36 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*

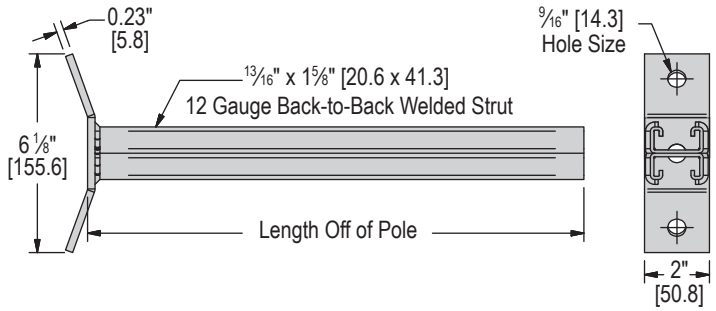


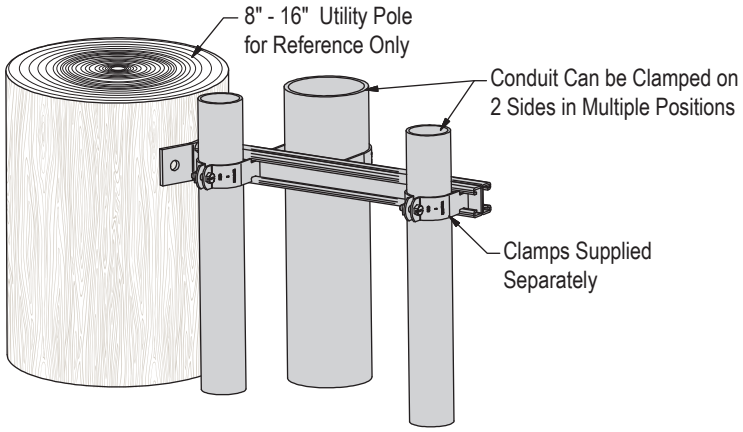
**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## PB1

Extended Riser Bracket

- With 13/16" Strut Back-to-Back
- Standard Finish - Hot Dipped Galvanized
- Conduit can be clamped on 2 sides and in Multiple positions
- Can also be supplied in 304 or 316 stainless steel upon request
- One piece design allows for ease of installation (lag screws not supplied)



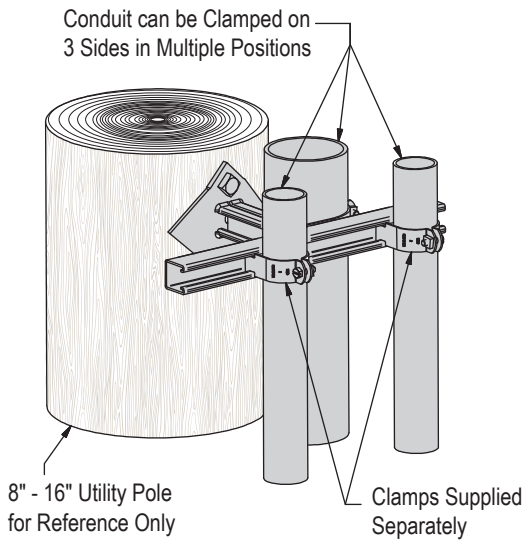



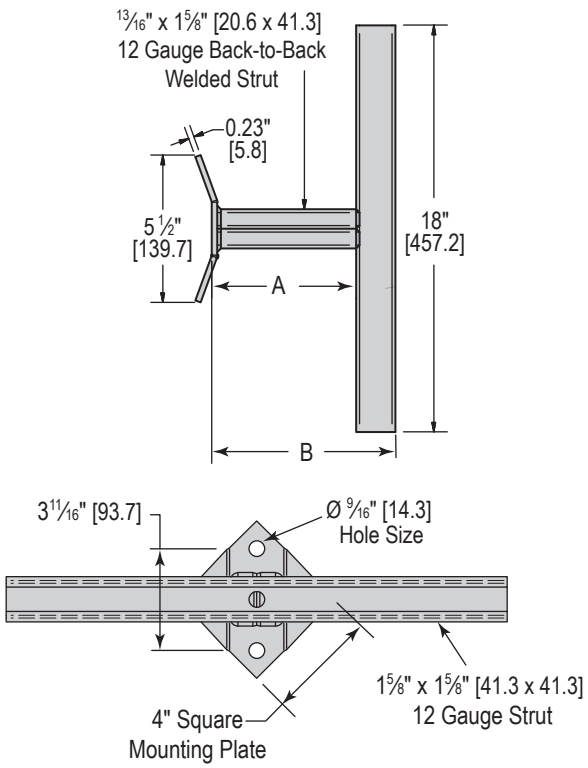

| Catalog Number | Length Off of Pole | | Wt. lbs |
|---|---|---|---|
| | in | mm | |
| PB1 1200HD | 12" | 305 | 4.83 |
| PB1 1800HD | 18" | 457 | 6.78 |
| PB1 2400HD | 24" | 610 | 8.69 |
| PB1 3600HD | 36" | 914 | 12.51 |

## PB5

Standoff Riser Bracket

- With 13/16" Strut Back-to-Back
- Standard Finish - Hot Dipped Galvanized
- Conduit can be clamped on 3 sides and in Multiple positions
- Can also be supplied in 304 or 316 stainless steel upon request
- One piece design allows for easy installation (lag screws not supplied)




| Catalog Number | A | | B | | Wt. lbs |
|---|---|---|---|---|---|
| | in | mm | in | mm | |
| PB5 0618HD | 6" | 152.4 | 7 5/8" | 193.7 | 4.95 |
| PB5 0918HD | 9" | 228.6 | 10 5/8" | 269.9 | 5.17 |

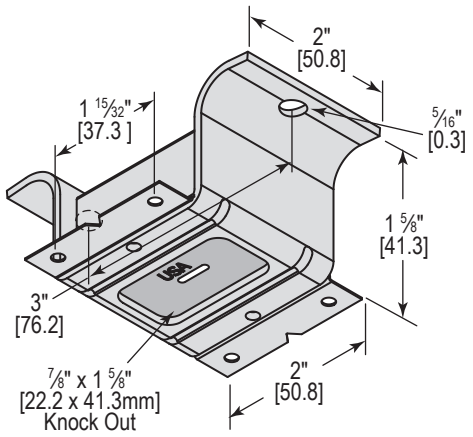





**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## CI

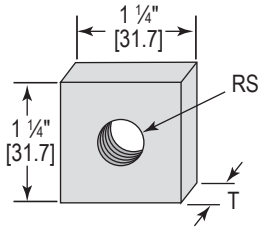
Concrete Insert




| Catalog Number | Wt. lbs | Finish | Design Load | |
|---|---|---|---|---|
| | | | lbs | kN |
| CI 0000EG | .44 | EG | 600 | 2.67 |
| CI 0000PL | .42 | Plain | 600 | 2.67 |

## CIN

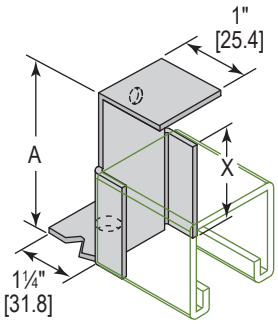
Concrete Insert Nut




| Catalog Number | | Wt. lbs | RS | T Thickness |
|---|---|---|---|---|
| Plain Finish | EG Finish | | | |
| CIN 0025PL | CIN 0025EG | 0.11 | 1/4"–20 | 1/4" |
| CIN 0037PL | CIN 0037EG | 0.16 | 3/8"–16 | 1/4" |
| CIN 0050PL | CIN 0050EG | 0.20 | 1/2"–13 | 5/16" |
| CIN 0062PL | CIN 0062EG | 0.18 | 5/8"–11 | 5/16" |
| CIN 0075PL | CIN 0075EG | 0.17 | 3/4"–10 | 1/2" |
| CIN 0087PL | CIN 0087EG | 0.15 | 7/8"–9 | 1/2" |

## CI20, CI21, CI22

Concrete End Cap Anchor




| Catalog Number | For Use With Channel (12 Gauge Channel) | X | A | Wt. lbs |
|---|---|---|---|---|
| CI200000EG | 1 5/8" x 1 5/8" | 1.415 | 3 1/8" | 0.10 |
| CI210000EG | 1 5/8" x 1 3/8" | 1.170 | 2 7/8" | 0.10 |
| CI220000EG | 1 5/8" x 1" | 0.790 | 2 1/2" | 0.10 |



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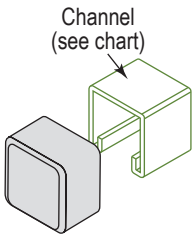
## EC07, EC08, EC09

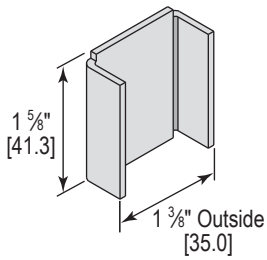
Plastic End Cap




| Catalog Number | For Use With Channel | Wt. lbs | Color |
|---|---|---|---|
| EC080000VC | 1⅝" x 13/16" | .03 | White |
| EC08000RVC | | .03 | Red |
| EC090000VC | 1⅝" x 1⅝" | .04 | White |
| EC09000RVC | | .05 | Red |
| EC070000VC | 1⅝" x 3¼" | .05 | White |
| EC07000RVC | | .05 | Red |

## EC10

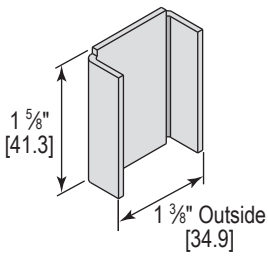
End Cap (1⅝" 12 Ga. Channel)




*Catalog Number EC100000EG*
*Weight: 0.08 Lbs.*

## EC11

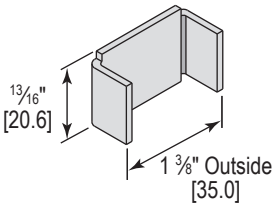
End Cap (1⅝" 14 Ga. Channel)




*Catalog Number: EC110000EG*
*Weight: 0.08 Lbs.*

## EC12

End Cap (13/16" 12 Ga. or 14 Ga. Channel)




*Catalog Number EC120000EG*
*Weight: 0.04 Lbs.*



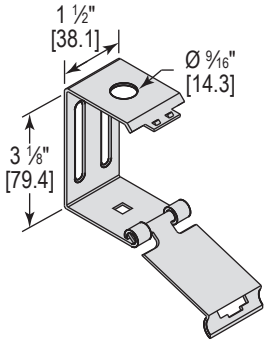



**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## EF10

Hinged Fluorescent Fixture Hanger

*1⅝" Channel 9⁄16" Hole*



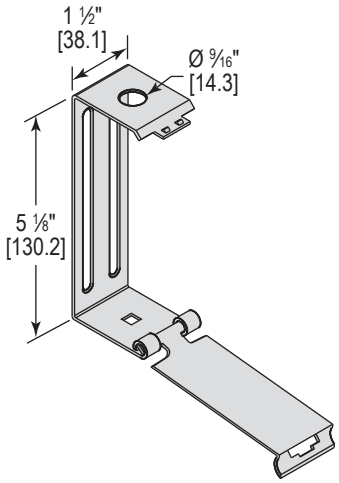

*Maximum loading 120 lb. [0.53 kN]*
*May be used as a channel hanger,*
*EF46 required for fixture attachment (page 57)*

*Catalog Number EF100000EG*
*Weight: 0.35 Lbs.*

## EF11

Hinged Fluorescent Fixture Hanger

*3¼" Channel 9⁄16" Hole*



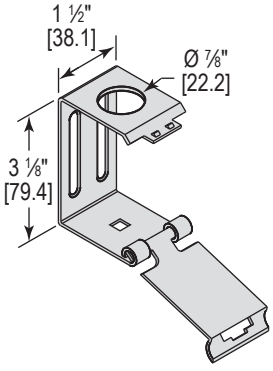

*Maximum loading 120 lb. [0.53 kN]*
*May be used as a channel hanger,*
*EF46 required for fixture attachment (page 57)*

*Catalog Number EF110000EG*
*Weight: 0.44 Lbs.*

## EF12

Hinged Fluorescent Fixture Hanger

*1⅝" Channel 7⁄8" Hole*



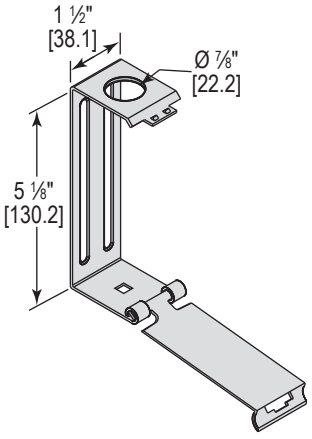

*Maximum loading 120 lb. [0.53 kN]*
*May be used as a channel hanger*
*EF46 required for fixture attachment (page 57)*

*Catalog Number EF120000EG*
*Weight: 0.26 Lbs.*

## EF13

Hinged Fluorescent Fixture Hanger

*3¼" Channel 7⁄8" Hole*



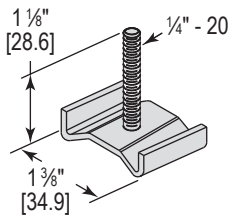

*Maximum loading 120 lb. [0.53 kN]*
*May be used as a channel hanger*
*EF46 required for fixture attachment (page 57)*

*Catalog Number EF130000EG*
*Weight: 0.45 Lbs.*



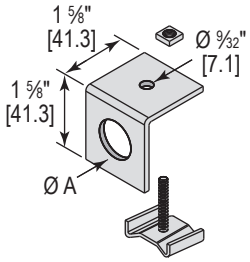
**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## EF19
Fixture Stud Nut




*Catalog Number: EF190000EG*
*Weight: 0.03 Lbs.*

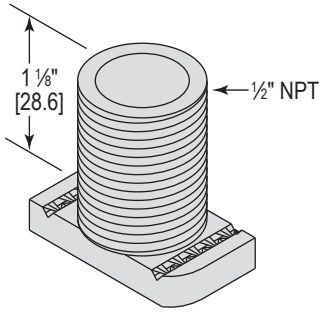
## EF20
End Cap Knock Out with Hardware




*Includes:* *Qty 1 – EF19 Fixture Stud Nut*
*Qty 1 - 1/4-20 Square Nut*

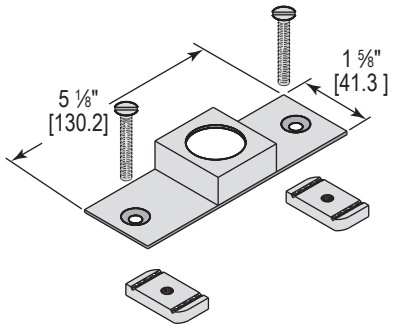
| Catalog Number | Wt. lbs | Ø A | |
|---|---|---|---|
| | | in | mm |
| EF200050EG | .26 | 1/2 | 12.7 |
| EF200075EG | .21 | 3/4 | 19.0 |

## EF21
Wiring Stud




*Catalog Number: EF210000EG*
*Weight: 0.07 Lbs.*

## EF22
Conduit Connection Plate with Hardware




*Includes:* *Qty 2 – CNN20025 Channel Nuts*
Qty 2 – 1/4-20 Flathead Machine Screws

| Catalog Number | Wt. lbs | Conduit Size | |
|---|---|---|---|
| | | in | mm |
| EF220050EG | .35 | 1/2 | 12.7 |
| EF220075EG | .35 | 3/4 | 19.0 |

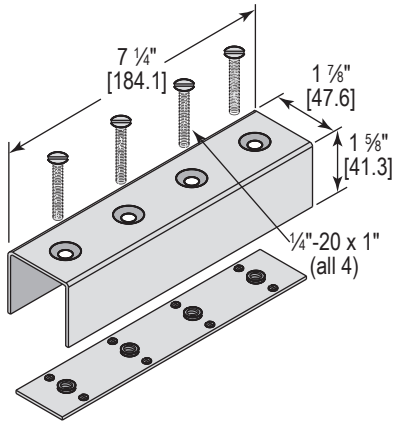





**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## EF30

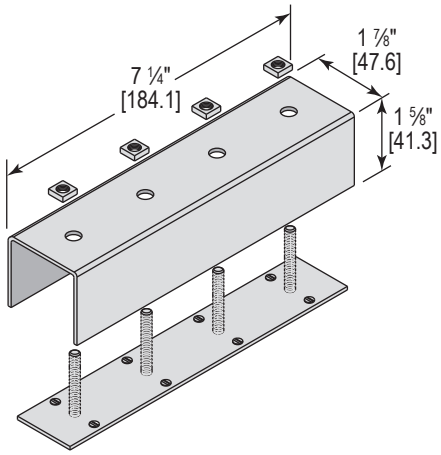
Channel Splice 4 Hole Assembly
with Tapped Plate and Hardware




*Catalog Number: EF300000EG*
*Weight: 1.06 Lbs.*

## EF31

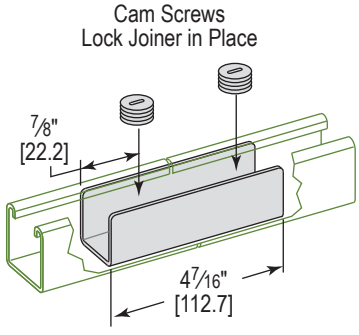
Channel Splice 4 Hole Assembly
with Stud Plate and Hardware




*Catalog Number: EF310000EG*
*Weight: 1.05 Lbs.*

## EF33

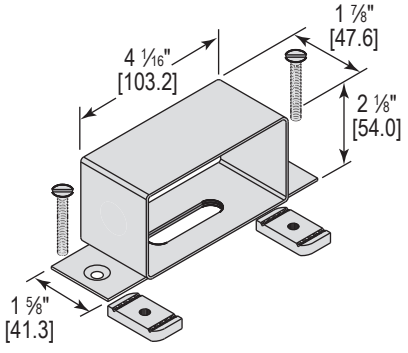
Inside Strut Joiner for 13⁄16" or 1⅝" channel




| Catalog Number | Use With | Wt. lbs |
|---|---|---|
| EF330081EG | 13⁄16" Channel | .31 |
| EF330162EG | 1⅝" Channel | .55 |

## EF40

Outlet Box Bolt Down with Hardware




Includes: Qty 2 – CNN20025 Channel Nuts
Qty 2 – ¼-20 Flathead Machine Screws

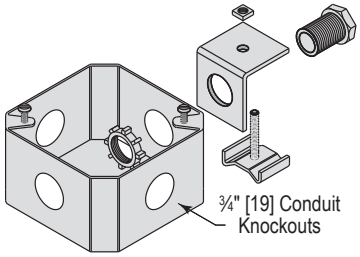
*Catalog Number: EF400000EG*
*Weight: 0.92 Lbs.*



**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## EF41

Junction Box Universal
with 1 Connector

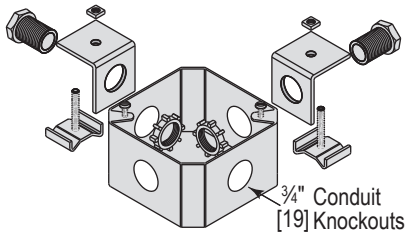



Includes: Qty 1 – EF200075EG
Qty 1 – ¾" Bushing with Nut

*Catalog Number: EF410000EG*
*Weight: 1.92 Lbs.*

## EF42

Junction Box Universal with
2 Connectors at 90 Degrees

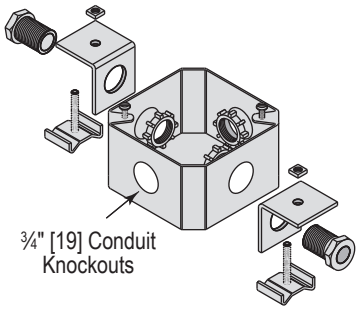



Includes: Qty 2 – EF200075EG
Qty 2 – ¾" Bushing with Nut

*Catalog Number: EF420000EG*
*Weight: 2.13 Lbs.*

## EF43

Junction Box Universal with 2 Connectors Opposite

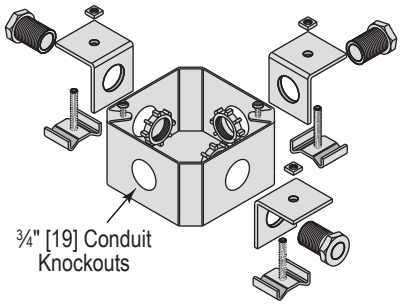



Includes: Qty 2 – EF200075EG
Qty 2 – ¾" Bushing with Nut

*Catalog Number: EF430000EG*
*Weight: 2.34 Lbs.*

## EF44

Junction Box Universal with 3 Connectors

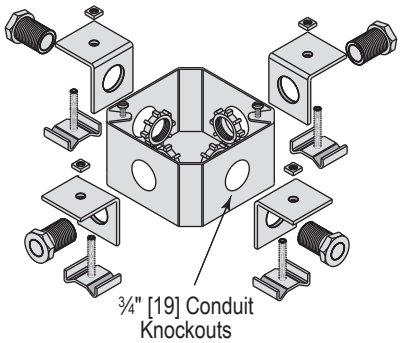



Includes: Qty 3 – EF200075EG
Qty 3 – ¾" Bushing with Nut

*Catalog Number: EF440000EG*
*Weight: 2.55 Lbs.*

## EF45

Junction Box Universal with 4 Connectors

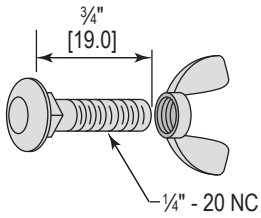



Includes:
Qty 4 – EF200075EG
Qty 4 – ¾" Bushing with Nut

*Catalog Number: EF450000EG*
*Weight: 2.76 Lbs.*

## EF46

¼" x ¾" Carriage Bolt and ¼" Wing Nut



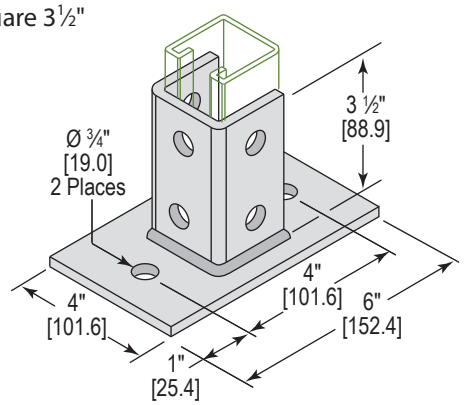

*Catalog Number: EF460000EG*
*Weight: 0.03 Lbs.*




**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## P10

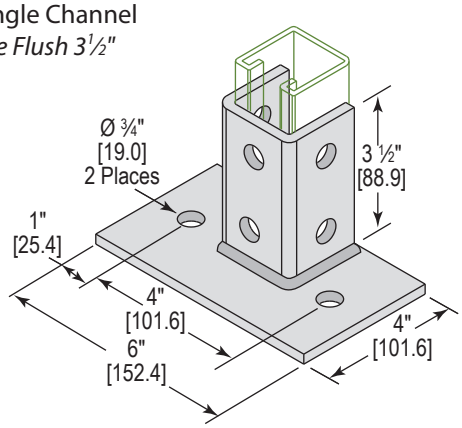
Post Base Single Channel
2 Hole Square 3½"




*Catalog Number: P10 0000EG*
*Weight: 2.79 Lbs.*

## P11

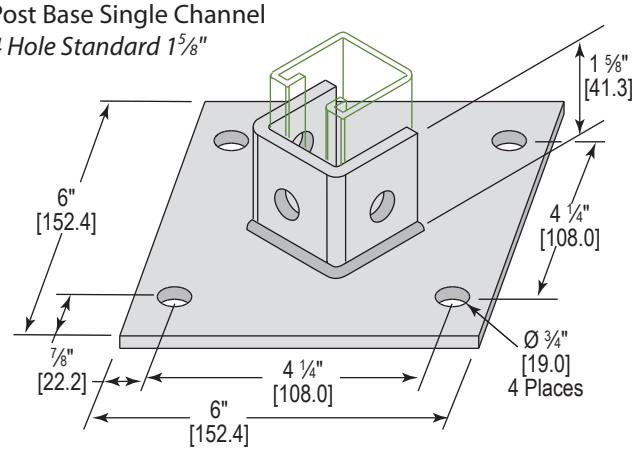
Post Base Single Channel
*2 Hole Square Flush 3½"*




*Catalog Number: P11 0000EG*
*Weight: 2.79 Lbs.*

## P12

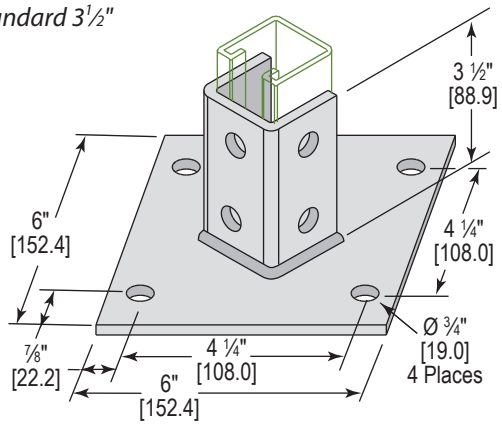
Post Base Single Channel
*4 Hole Standard 1⅝"*




*Catalog Number: P12 0000EG*
*Weight: 2.96 Lbs.*

## P13

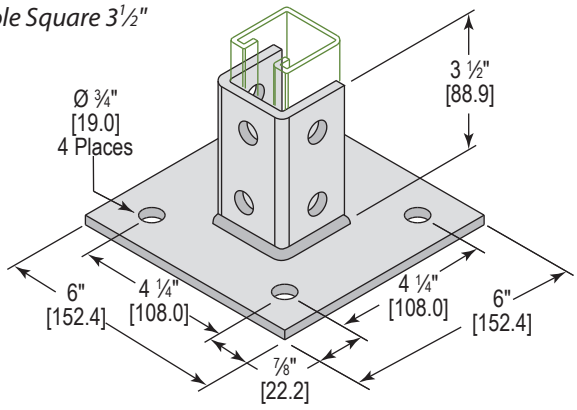
Post Base Single Channel
*4 Hole Standard 3½"*




*Catalog Number: P13 0000EG*
*Weight: 3.56 Lbs.*

## P14

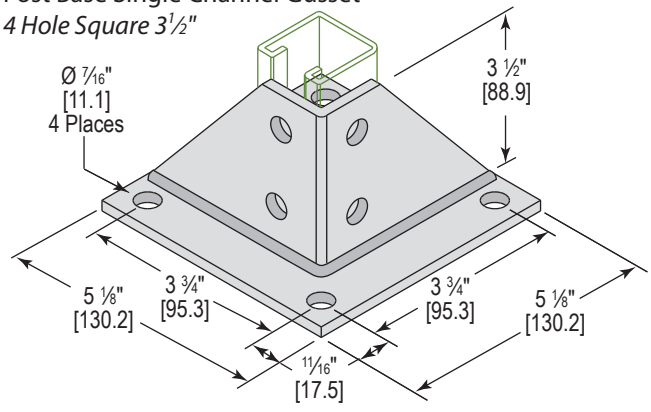
Post Base Single Channel
*4 Hole Square 3½"*




*Catalog Number: P14 0000EG*
*Weight: 3.53 Lbs.*

## P15

Post Base Single Channel Gusset
*4 Hole Square 3½"*




*Catalog Number: P15 0000EG*
*Weight: 2.880 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9⁄16" (14.3) diameter, 13⁄16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

# Post Bases

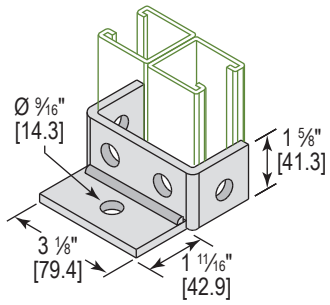
Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

PHOENIX® SUPPORT SYSTEMS

## P16

Post Base Double Channel

*1 Hole Square 1⅝"*

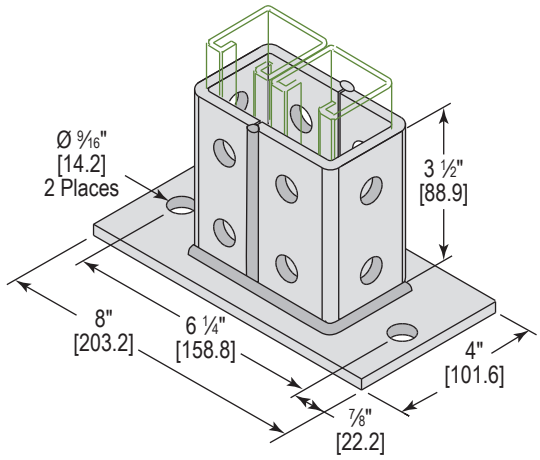



*Catalog Number: P16 0000EG*
*Weight: 1.16 Lbs.*

## P17

Post Base Double Channel

*2 Hole Square 3½" Boxed*

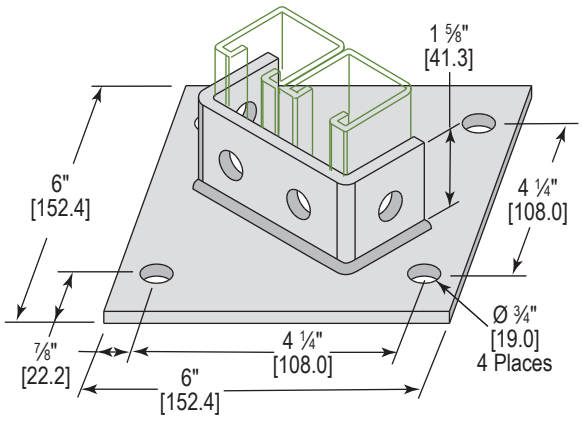



*Catalog Number: P17 0000EG*
*Weight: 3.11 Lbs.*

## P18

Post Base Double Channel

*4 Hole Standard 1⅝"*

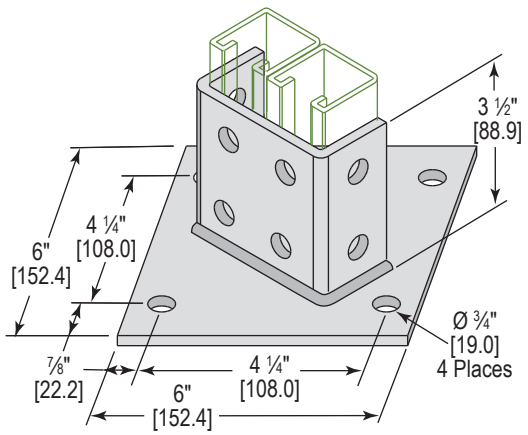



*Catalog Number: P18 0000EG*
*Weight: 3.1 Lbs.*

## P19

Post Base Double Channel

*4 Hole Standard 3½"*




*Catalog Number: P19 0000EG*
*Weight: 3.87 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9⁄16" (14.3) diameter, 13⁄16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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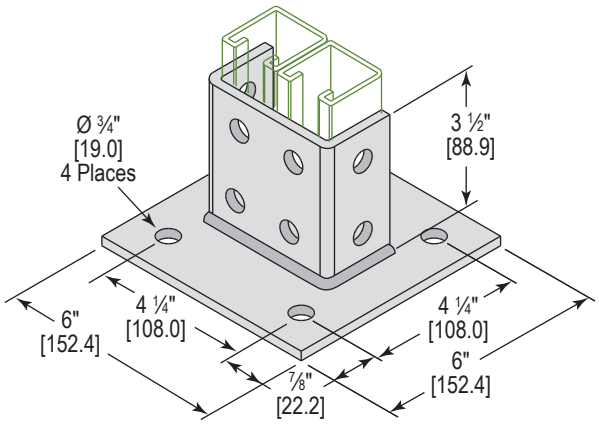
## P20

Post Base Double Channel

*4 Hole Square 3½"*

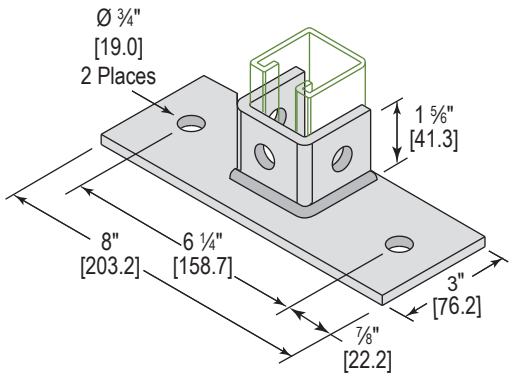



*Catalog Number: P20 0000EG*
*Weight: 3.88 Lbs.*

## P21

Post Base Single Channel

*2 Hole Square Flush 1⅝"*

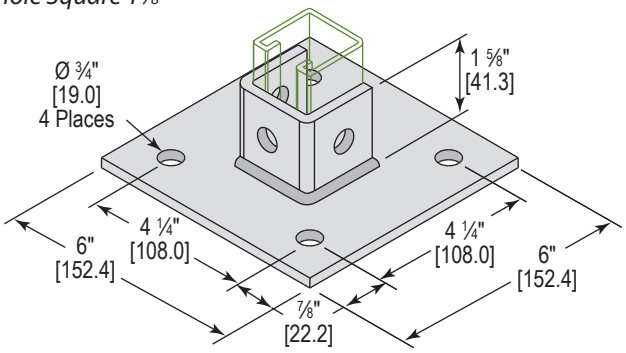



*Catalog Number: P21 0000EG*
*Weight: 2.30 Lbs.*

## P22

Post Base Single Channel

*4 Hole Square 1⅝"*

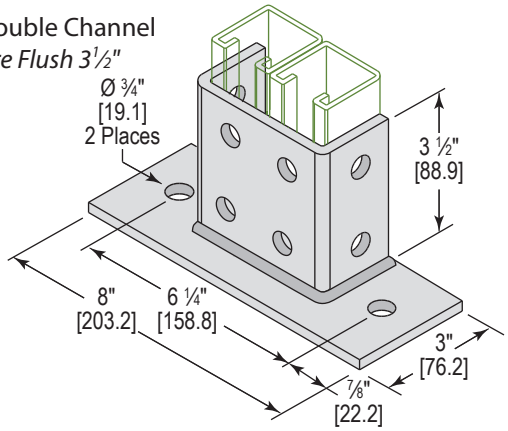



*Catalog Number: P22 0000EG*
*Weight: 2.96 Lbs.*

## P23

Post Base Double Channel

*2 Hole Square Flush 3½"*

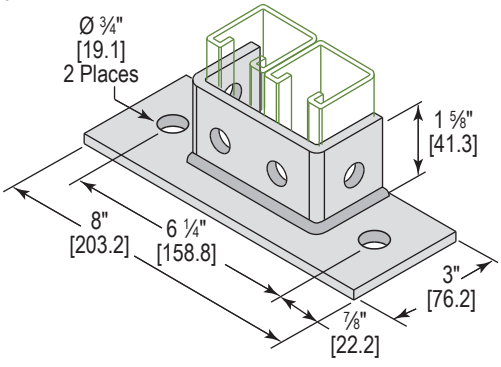



*Catalog Number: P23 0000EG*
*Weight: 3.2 Lbs.*

## P24

Post Base Double Channel

*2 Hole Square Flush 1⅝"*

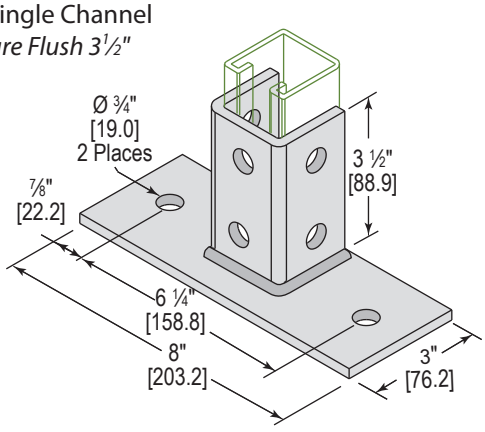



*Catalog Number: P24 0000EG*
*Weight: 2.5 Lbs.*

## P26

Post Base Single Channel

*2 Hole Square Flush 3½"*




*Catalog Number: P26 0000EG*
*Weight: 3.12 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9⁄16" (14.3) diameter, 13⁄16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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# Post Bases

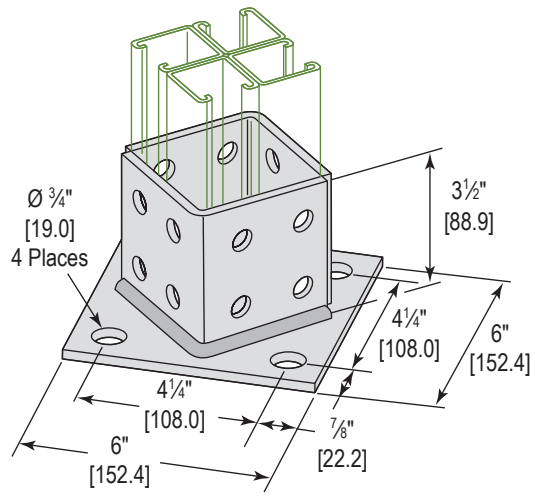
Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

PHOENIX® SUPPORT SYSTEMS

## P27

Post Base Four Channel Combinations

*4 Hole Standard 3½"*

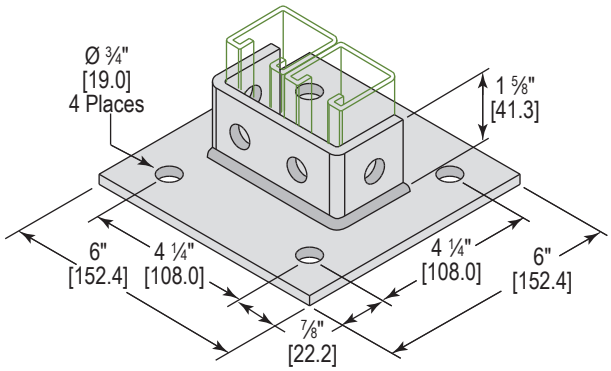



*Catalog Number: P27 0000EG*
*Weight: 5.5 Lbs.*

## P28

Post Base Double Channel

*4 Hole Square 1⅝"*

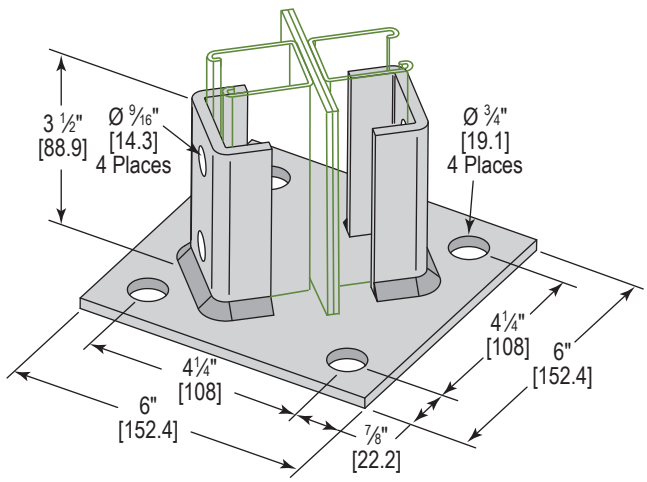



*Catalog Number: P28 0000EG*
*Weight: 3.3 Lbs.*

## P29

Post Base Double Channel

*4 Hole Standard 3½"*

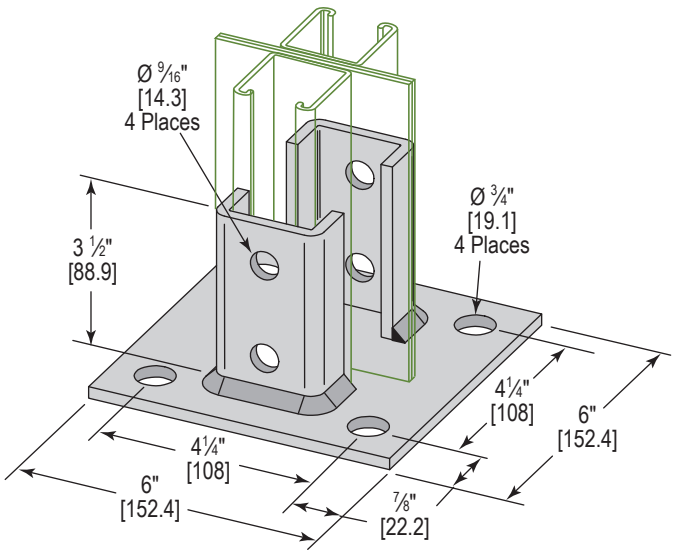



*Catalog Number: P29 0000EG*
*Weight: 3.88 Lbs.*

## P30

Post Base Double Channel - Square

*4 Hole Square 3½"*




*Catalog Number: P30 0000EG*
*Weight: 3.88 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9⁄16" (14.3) diameter, 13⁄16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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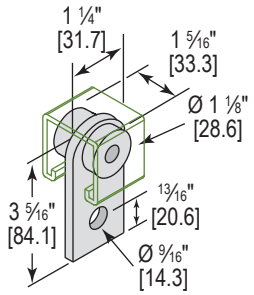
## R10
Roller Trolley 2 Bearing Assembly



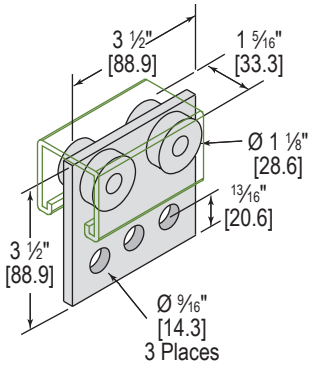

| FPM | RPM | Design Load in 12 Ga. Channel | |
|---|---|---|---|
| | | Lbs | kN |
| 180 | 600 | 150 | 0.67 |
| 90 | 300 | 225 | 1.00 |
| 30 | 100 | 437 | 1.94 |

Stainless steel ball bearings
Bearings not to be lubricated

**Note: Plate also available in stainless steel**

*Catalog Number: R10 0000EG*
*Weight: 0.46 Lbs.*

## R11
Roller Trolley 4 Bearing Assembly



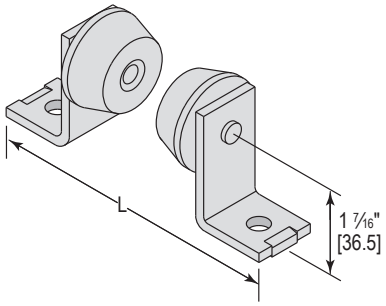

| FPM | RPM | Design Load in 12 Ga. Channel | |
|---|---|---|---|
| | | Lbs | kN |
| 180 | 600 | 300 | 1.33 |
| 90 | 300 | 450 | 2.00 |
| 30 | 100 | 600 | 2.67 |

Stainless steel ball bearings
Bearings not to be lubricated

**Note: Plate also available in stainless steel**

*Catalog Number: R11 0000EG*
*Weight: 1.19 Lbs.*

## R20
Pipe Roller 1" - 4" Pipe

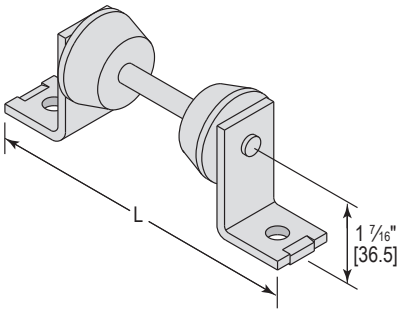



Max load rating of 500 lbs. [2.22 kN] with 12ga channel

***See next page for dimensions L and CL***

*Catalog Number: R20 1040EG*
*Weight: 2.61 Lbs.*

## R21
Pipe Roller

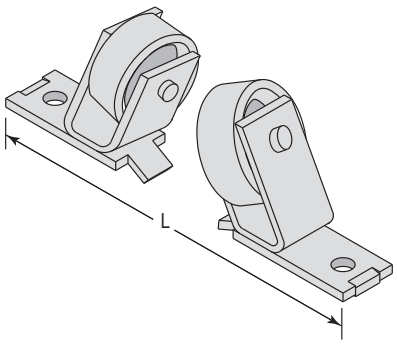



Max load rating of 750 lbs. [3.34 kN] with 12ga channel

***See next page for dimensions L and CL (Center Line)***

| Catalog Number | Wt. lbs | Pipe O.D. | |
|---|---|---|---|
| | | in | mm |
| R21 3740EG | 2.66 | 3¾ – 4 | 95 – 102 |
| R21 4360EG | 2.71 | 4⅜ – 6 | 111 – 152 |
| R21 6380EG | 2.75 | 6⅜ – 8 | 162 – 203 |
| R21 9010EG | 2.79 | 9 – 10 | 229 – 254 |

## R22
Pipe Roller Heavy Duty 6" - 16" Pipe

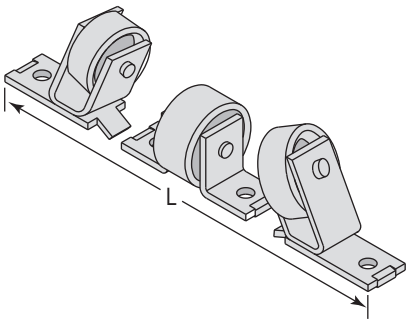



Max load rating of 1500 lbs. [6.67 kN] with 12ga channel

***See page 64 for dimensions L and CL (Center Line)***

*Catalog Number: R22 0000EG*
*Weight: 8.89 Lbs.*

## R23
Pipe Roller Heavy Duty 16" - 24" Pipe




Max load rating of 2000 lbs. [8.90 kN] with 12ga channel

***See page 64 for dimensions L and CL (Center Line)***

*Catalog Number: R23 0000EG*
*Weight: 14.72 Lbs.*



**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## Dimension Information for R20 & R21

| Pipe Size | Pipe Covering Thickness | | Actual O.D. of Pipe + Shield + Insulation | | Dimension L | | Dimension CL | |
|---|---|---|---|---|---|---|---|---|
| | in | mm | in | mm | in | mm | in | mm |
| ¾ | 0 | 0.0 | 1 1/16 | 27.0 | 6 1/2 | 165.1 | 2 15/16 | 74.6 |
| | 7/8 | 22.2 | 3 1/4 | 82.6 | 6 1/2 | 165.1 | 4 1/8 | 104.8 |
| | 1 7/16 | 36.5 | 4 3/8 | 111.1 | 8 1/4 | 209.6 | 4 7/16 | 112.7 |
| | 1 7/8 | 47.6 | 5 3/8 | 136.5 | 8 1/4 | 209.6 | 4 15/16 | 125.4 |
| 1 | 0 | 0.0 | 1 5/16 | 33.3 | 6 1/2 | 165.1 | 3 1/8 | 79.4 |
| | 1 1/16 | 27.0 | 3 5/8 | 92.1 | 7 1/4 | 184.2 | 4 1/4 | 108.0 |
| | 1 9/16 | 39.7 | 4 5/8 | 117.5 | 8 1/4 | 209.6 | 4 9/16 | 115.9 |
| | 2 1/8 | 54.0 | 5 3/4 | 146.1 | 8 1/4 | 209.6 | 5 1/8 | 130.2 |
| 1¼ | 0 | 0.0 | 1 11/16 | 42.9 | 6 1/2 | 165.1 | 3 5/16 | 84.1 |
| | 7/8 | 22.2 | 3 7/8 | 98.4 | 7 1/4 | 184.2 | 4 5/16 | 109.5 |
| | 1 5/8 | 41.3 | 5 1/8 | 130.2 | 8 1/4 | 209.6 | 4 13/16 | 122.2 |
| | 1 15/16 | 49.2 | 6 | 152.4 | 8 1/4 | 209.6 | 5 1/4 | 133.4 |
| | 2 7/16 | 61.9 | 7 1/2 | 190.5 | 9 1/4 | 235.0 | 5 7/8 | 149.2 |
| 1½ | 0 | 0.0 | 1 7/8 | 47.6 | 6 1/2 | 165.1 | 3 3/8 | 85.7 |
| | 1 | 25.4 | 4 1/4 | 108.0 | 8 1/4 | 209.6 | 4 3/8 | 111.1 |
| | 1 1/2 | 38.1 | 5 1/4 | 133.4 | 8 1/4 | 209.6 | 4 7/8 | 123.8 |
| | 2 5/16 | 58.7 | 6 5/8 | 168.3 | 9 1/4 | 235.0 | 5 7/16 | 138.1 |
| | 2 13/16 | 71.4 | 7 3/4 | 196.9 | 9 1/4 | 235.0 | 6 | 152.4 |
| 2 | 0 | 0.0 | 2 3/8 | 60.3 | 6 1/2 | 165.1 | 3 11/16 | 93.7 |
| | 1 1/16 | 27.0 | 4 3/4 | 120.7 | 8 1/4 | 209.6 | 4 5/8 | 117.5 |
| | 1 9/16 | 39.7 | 5 3/4 | 146.1 | 8 1/4 | 209.6 | 5 1/8 | 130.2 |
| | 2 1/8 | 54.0 | 7 1/8 | 181.0 | 9 1/4 | 235.0 | 5 11/16 | 144.5 |
| | 2 5/8 | 66.7 | 8 1/8 | 206.4 | 10 1/8 | 257.2 | 6 1/16 | 154.0 |
| | 3 1/8 | 79.4 | 9 1/8 | 231.8 | 10 1/8 | 257.2 | 6 5/8 | 168.3 |
| 2½ | 0 | 0.0 | 2 7/8 | 73.0 | 6 1/2 | 165.1 | 3 15/16 | 100.0 |
| | 1 1/16 | 27.0 | 5 3/8 | 136.5 | 8 1/4 | 209.6 | 4 15/16 | 125.4 |
| | 1 7/8 | 47.6 | 6 5/8 | 168.3 | 9 1/4 | 235.0 | 5 7/16 | 138.1 |
| | 2 5/16 | 58.7 | 7 3/4 | 196.9 | 9 1/4 | 235.0 | 6 | 152.4 |
| | 2 7/8 | 73.0 | 8 1/2 | 215.9 | 9 1/4 | 235.0 | 6 7/16 | 163.5 |
| | 3 3/8 | 85.7 | 9 3/4 | 247.7 | 9 1/4 | 235.0 | 7 1/16 | 179.4 |
| 3 | 0 | 0.0 | 3 1/2 | 88.9 | 7 1/4 | 184.2 | 4 1/8 | 104.8 |
| | 1 | 25.4 | 5 7/8 | 149.2 | 8 1/4 | 209.6 | 5 1/4 | 133.4 |
| | 1 9/16 | 39.7 | 7 1/4 | 184.2 | 9 1/4 | 235.0 | 5 3/4 | 146.1 |
| | 2 1/16 | 52.4 | 8 1/4 | 209.6 | 10 1/8 | 257.2 | 6 1/8 | 155.6 |
| | 2 9/16 | 65.1 | 9 3/8 | 238.1 | 10 1/8 | 257.2 | 6 3/4 | 171.5 |
| | 3 1/16 | 77.8 | 10 1/8 | 257.2 | 10 7/8 | 276.2 | 7 | 177.8 |

| Pipe Size | Pipe Covering Thickness | | Actual O.D. of Pipe + Shield + Insulation | | Dimension L | | Dimension CL | |
|---|---|---|---|---|---|---|---|---|
| | in | mm | in | mm | in | mm | in | mm |
| 3½ | 0 | 0.0 | 4 | 101.6 | 7 1/4 | 184.2 | 4 3/8 | 111.1 |
| | 1 1/4 | 31.8 | 6 5/8 | 168.3 | 9 1/4 | 235.0 | 5 7/16 | 138.1 |
| | 1 13/16 | 46.0 | 7 3/8 | 187.3 | 9 1/4 | 235.0 | 5 13/16 | 147.6 |
| | 2 1/4 | 57.2 | 8 5/8 | 219.1 | 10 1/8 | 257.2 | 6 3/8 | 161.9 |
| | 2 3/4 | 69.9 | 9 3/8 | 238.1 | 10 1/8 | 257.2 | 6 3/4 | 171.5 |
| | 3 5/16 | 84.1 | 10 3/4 | 273.1 | 10 7/8 | 276.2 | 7 3/8 | 187.3 |
| 4 | 0 | 0.0 | 4 1/2 | 114.3 | 8 1/4 | 209.6 | 4 1/2 | 114.3 |
| | 1 1/16 | 27.0 | 7 1/8 | 181.0 | 9 1/4 | 235.0 | 5 11/16 | 144.5 |
| | 1 9/16 | 39.7 | 8 1/8 | 206.4 | 10 1/8 | 257.2 | 6 1/16 | 154.0 |
| | 2 1/16 | 52.4 | 9 1/8 | 231.8 | 10 1/8 | 257.2 | 6 5/8 | 168.3 |
| | 2 9/16 | 65.1 | 10 | 254.0 | 10 1/8 | 257.2 | 7 1/16 | 179.4 |
| | 3 1/16 | 77.8 | 11 1/4 | 285.8 | 10 7/8 | 276.2 | 7 5/8 | 193.7 |
| | 4 1/16 | 103.2 | 13 | 330.2 | 10 7/8 | 276.2 | 8 9/16 | 217.5 |
| 5 | 0 | 0.0 | 5 5/8 | 142.9 | 8 1/4 | 209.6 | 5 1/16 | 128.6 |
| | 1 | 25.4 | 8 1/4 | 209.6 | 10 1/8 | 257.2 | 6 1/8 | 155.6 |
| | 1 1/2 | 38.1 | 9 3/8 | 238.1 | 10 1/8 | 257.2 | 6 3/4 | 171.5 |
| | 2 | 50.8 | 10 3/8 | 263.5 | 10 7/8 | 276.2 | 7 1/8 | 181.0 |
| | 2 9/16 | 65.1 | 11 1/4 | 285.8 | 10 7/8 | 276.2 | 7 5/8 | 193.7 |
| | 3 1/16 | 77.8 | 12 3/8 | 314.3 | 10 7/8 | 276.2 | 8 1/8 | 206.4 |
| | 4 3/16 | 106.4 | 14 1/4 | 362.0 | 10 7/8 | 276.2 | 9 3/16 | 233.4 |
| 6 | 0 | 0.0 | 6 5/8 | 168.3 | 9 1/4 | 235.0 | 5 7/16 | 138.1 |
| | 1 | 25.4 | 9 | 228.6 | 10 1/8 | 257.2 | 6 9/16 | 166.7 |
| | 1 1/2 | 38.1 | 10 1/8 | 257.2 | 10 7/8 | 276.2 | 7 | 177.8 |
| | 2 | 50.8 | 11 | 279.4 | 10 7/8 | 276.2 | 7 1/2 | 190.5 |
| | 2 1/2 | 63.5 | 12 3/8 | 314.3 | 10 7/8 | 276.2 | 8 3/16 | 208.0 |
| | 3 | 76.2 | 13 1/2 | 342.9 | 10 7/8 | 276.2 | 8 5/8 | 219.1 |
| | 4 1/8 | 104.8 | 15 1/8 | 384.2 | 10 7/8 | 276.2 | 9 11/16 | 246.1 |
| 8 | 0 | 0.0 | 8 5/8 | 219.1 | 10 1/8 | 257.2 | 6 3/8 | 161.9 |
| | 1 1/2 | 38.1 | 12 | 304.8 | 10 7/8 | 276.2 | 8 | 203.2 |
| | 2 | 50.8 | 13 | 330.2 | 10 7/8 | 276.2 | 8 9/16 | 217.5 |
| | 2 11/16 | 68.3 | 14 1/2 | 368.3 | 10 7/8 | 276.2 | 9 5/16 | 236.5 |
| | 3 1/8 | 79.4 | 15 3/8 | 390.5 | 10 7/8 | 276.2 | 9 13/16 | 249.2 |
| | 4 3/16 | 106.4 | 17 3/8 | 441.3 | 10 7/8 | 276.2 | 10 7/8 | 276.2 |






**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## Dimension Information for R22

| Pipe Size | Pipe Covering Thickness | | Dimension L | | Dimension CL | |
|---|---|---|---|---|---|---|
| | in | mm | in | mm | in | mm |
| 6 | 0 | 0.0 | 10 3/16 | 258.8 | 6 7/8 | 174.6 |
| | 1 | 25.4 | 10 1/2 | 266.7 | 7 7/8 | 200.0 |
| | 1 1/2 | 38.1 | 10 11/16 | 271.5 | 8 3/8 | 212.7 |
| | 2 | 50.8 | 10 13/16 | 274.6 | 8 7/8 | 225.4 |
| | 2 1/2 | 63.5 | 10 15/16 | 277.8 | 9 3/8 | 238.1 |
| | 3 | 76.2 | 11 3/8 | 288.9 | 9 7/8 | 250.8 |
| | 4 | 101.6 | 11 7/16 | 290.5 | 10 15/16 | 277.8 |
| 8 | 0 | 0.0 | 10 7/8 | 276.2 | 7 13/16 | 198.4 |
| | 1 | 25.4 | 11 3/16 | 284.2 | 8 7/8 | 225.4 |
| | 1 1/2 | 38.1 | 11 3/8 | 288.9 | 9 3/8 | 238.1 |
| | 2 | 50.8 | 11 1/2 | 292.1 | 9 7/8 | 250.8 |
| | 2 1/2 | 63.5 | 11 5/8 | 295.3 | 10 7/16 | 265.1 |
| | 3 | 76.2 | 12 1/16 | 306.4 | 10 15/16 | 277.8 |
| | 4 | 101.6 | 12 1/8 | 308.0 | 11 7/8 | 301.6 |
| 10 | 0 | 0.0 | 11 15/16 | 303.2 | 8 13/16 | 223.8 |
| | 1 | 25.4 | 12 | 304.8 | 9 7/8 | 250.8 |
| | 1 1/2 | 38.1 | 11 15/16 | 303.2 | 10 7/16 | 265.1 |
| | 2 | 50.8 | 10 3/4 | 273.1 | 10 15/16 | 277.8 |
| | 2 1/2 | 63.5 | 12 7/16 | 315.9 | 11 3/8 | 288.9 |
| | 3 | 76.2 | 12 9/16 | 319.1 | 11 7/8 | 301.6 |
| | 4 | 101.6 | 13 1/4 | 336.6 | 12 13/16 | 325.4 |
| 12 | 0 | 0.0 | 12 5/16 | 312.7 | 9 3/4 | 247.7 |
| | 1 | 25.4 | 11 7/8 | 301.6 | 10 15/16 | 277.8 |
| | 1 1/2 | 38.1 | 12 5/16 | 312.7 | 11 3/8 | 288.9 |
| | 2 | 50.8 | 12 3/8 | 314.3 | 11 7/8 | 301.6 |
| | 2 1/2 | 63.5 | 13 | 330.2 | 12 5/16 | 312.7 |
| | 3 | 76.2 | 13 1/8 | 333.4 | 12 13/16 | 325.4 |
| | 4 | 101.6 | 13 9/16 | 344.5 | 13 3/4 | 349.3 |
| 14 | 0 | 0.0 | 12 13/16 | 325.4 | 10 5/16 | 261.9 |
| | 1 | 25.4 | 12 15/16 | 328.6 | 11 3/8 | 288.9 |
| | 1 1/2 | 38.1 | 13 1/8 | 333.4 | 11 7/8 | 301.6 |
| | 2 | 50.8 | 13 9/16 | 344.5 | 12 5/16 | 312.7 |
| | 2 1/2 | 63.5 | 13 15/16 | 354.0 | 12 13/16 | 325.4 |
| | 3 | 76.2 | 14 3/8 | 365.1 | 13 1/4 | 336.6 |
| | 4 | 101.6 | 14 3/4 | 374.7 | 14 1/4 | 362.0 |

## Dimension Information for R23

| Pipe Size | Pipe Covering Thickness | | Actual O.D. of Pipe + Shield + Insulation | | Dimension L | | Dimension CL | |
|---|---|---|---|---|---|---|---|---|
| | in | mm | in | mm | in | mm | in | mm |
| 16 | 0 | 0.0 | 16 | 406.4 | 12 3/4 | 323.9 | 11 3/8 | 288.9 |
| | 1 1/2 | 38.1 | 19 5/8 | 498.5 | | | | |
| | 2 | 50.8 | 20 3/8 | 517.5 | | | | |
| | 2 1/2 | 63.5 | 21 5/8 | 549.3 | | | | |
| | 3 | 76.2 | 22 1/8 | 562.0 | | | | |
| | 4 | 101.6 | 24 3/8 | 619.1 | | | | |
| 18 | 0 | 0.0 | 18 | 457.2 | 12 3/4 | 323.9 | 12 1/4 | 311.2 |
| | 1 1/2 | 38.1 | 21 5/8 | 549.3 | | | | |
| | 2 | 50.8 | 22 5/8 | 574.7 | | | | |
| | 2 1/2 | 63.5 | 23 1/4 | 590.6 | | | | |
| | 3 | 76.2 | 24 1/4 | 616.0 | | | | |
| | 4 | 101.6 | 26 5/8 | 676.3 | | | | |
| 20 | 0 | 0.0 | 20 | 508.0 | 14 1/8 | 358.8 | 13 1/4 | 336.6 |
| | 1 1/2 | 38.1 | 23 1/4 | 590.6 | | | | |
| | 2 | 50.8 | 24 1/2 | 622.3 | | | | |
| | 2 1/2 | 63.5 | 25 1/2 | 647.7 | | | | |
| | 3 | 76.2 | 26 5/8 | 676.3 | | | | |
| | 4 | 101.6 | 28 1/4 | 717.6 | | | | |
| 24 | 0 | 0.0 | 24 | 609.6 | 14 13/16 | 376.2 | 15 1/4 | 387.4 |
| | 1 1/2 | 38.1 | 27 | 685.8 | | | | |
| | 2 | 50.8 | 28 | 711.2 | | | | |
| | 2 1/2 | 63.5 | 29 1/4 | 743.0 | | | | |
| | 3 | 76.2 | 30 1/2 | 774.7 | | | | |
| | 4 | 101.6 | 32 7/8 | 835.0 | | | | |
| 30 | 0 | 0.0 | 30 | 762.0 | 15 7/8 | 403.2 | 16 1/4 | 412.8 |



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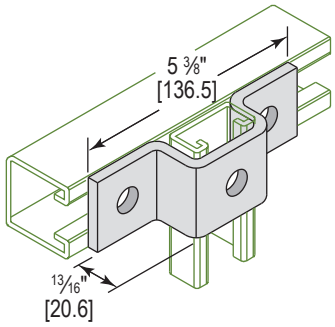
# "U" Fittings

Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

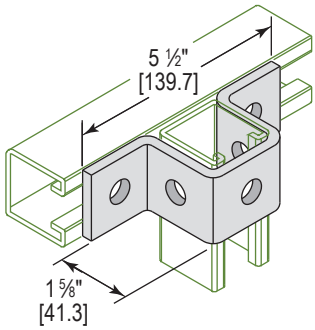
PHOENIX® SUPPORT SYSTEMS

## U10
U-Fitting Cross 3 Hole 13/16"



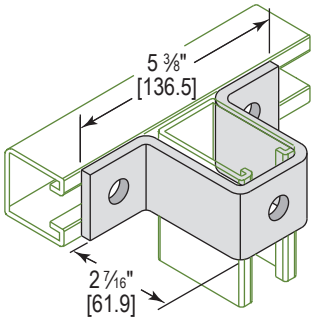

*Catalog Number: U10 0000EG*
*Weight: 0.66 Lbs.*

## U11
U-Fitting Cross 5 Hole 1 5/8"



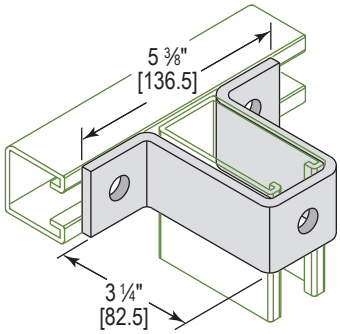

*Catalog Number: U11 0000EG*
*Weight: 0.81 Lbs.*

## U12
U-Fitting Cross 3 Hole 2 7/16"



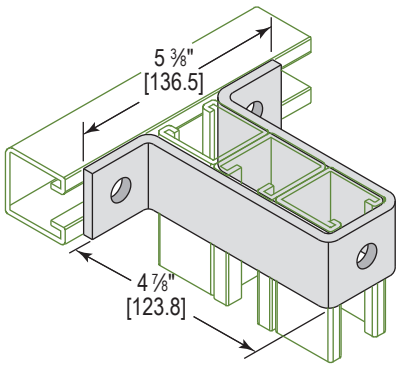

*Catalog Number: U12 0000EG*
*Weight: 1.03 Lbs.*

## U13
U-Fitting Cross 3 Hole 3 1/4"



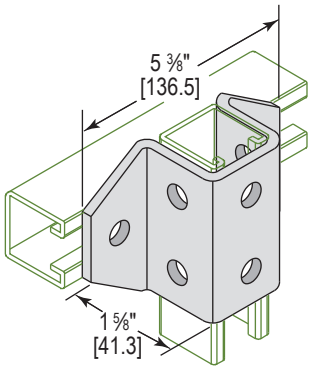

*Catalog Number: U13 0000EG*
*Weight: 1.18 Lbs.*

## U14
U-Fitting Cross 3 Hole 4 7/8"




*Catalog Number: U14 0000EG*
*Weight: 1.59 Lbs.*

## U15
U-Fitting Cross 8 Hole 1 5/8"




*Catalog Number: U15 0000EG*
*Weight: 1.67 Lbs.*

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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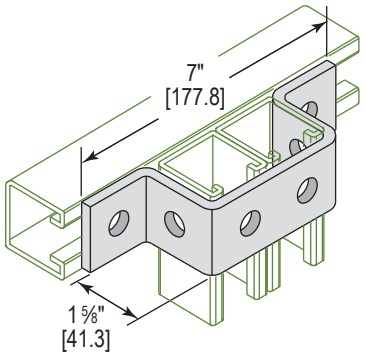
## U16

U-Fitting Cross 6 Hole

*1⅝" Double Channel*

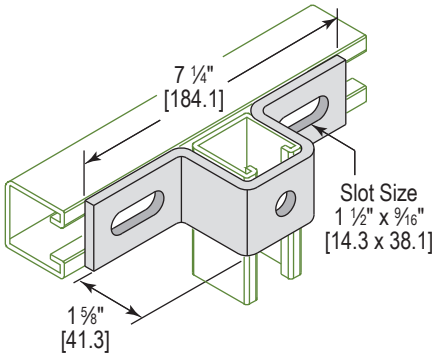



*Catalog Number: U16 0000EG*
*Weight: 0.95 Lbs.*

## U20

U-Fitting Cross 1 Hole 2 Slot

*1⅝" X 7¼"*

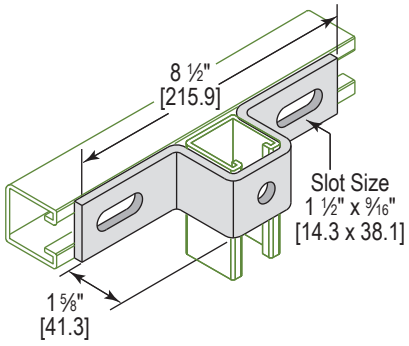



*Catalog Number: U20 0000EG*
*Weight: 0.98 Lbs.*

## U21

U-Fitting Cross 1 Hole 2 Slot

*1⅝" X 8½"*

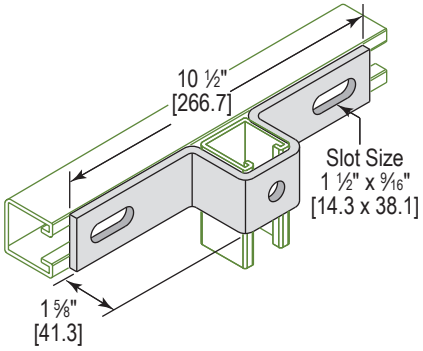



*Catalog Number: U21 0000EG*
*Weight: 1.15 Lbs.*

## U22

U-Fitting Cross 1 Hole 2 Slot

*1⅝" X 10½"*

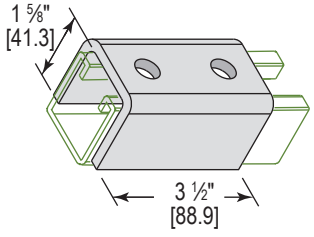



*Catalog Number: U22 0000EG*
*Weight: 1.35 Lbs.*

## U30

U-Fitting Splice 2 Hole

*1⅝"Channel*

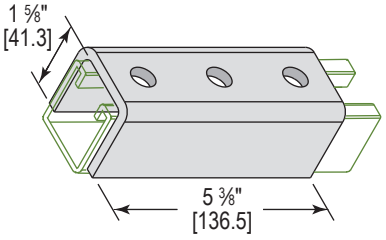



*Catalog Number: U30 0000EG*
*Weight: 1.19 Lbs.*

## U31

U-Fitting Splice 3 Hole

*1⅝"Channel*




*Catalog Number: U31 0000EG*
*Weight: 1.83 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9⁄16" (14.3) diameter, 13⁄16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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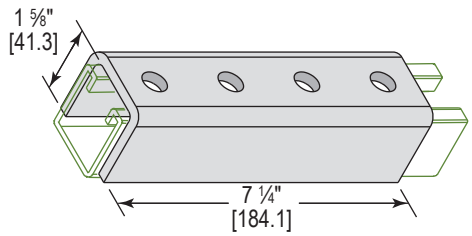
# "U" Fittings

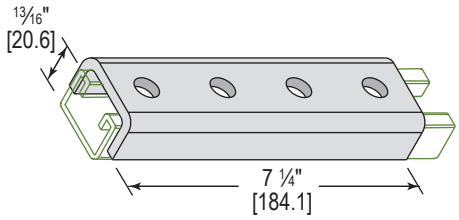
Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

## U32
U-Fitting Splice 4 Hole
*1⅝" Channel*



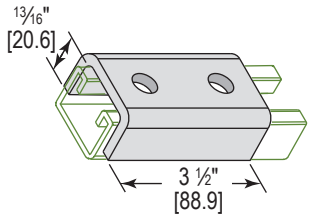

*Catalog Number: U32 0000EG*
*Weight: 2.44 Lbs.*

## U33
U-Fitting Splice 4 Hole
*13/16"Channel*



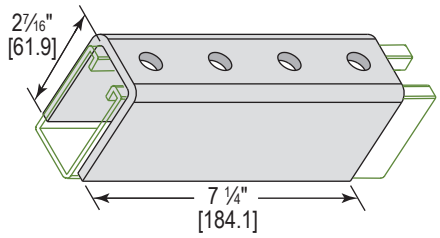

*Catalog Number: U33 0000EG*
*Weight: 1.63 Lbs.*

## U34
U-Fitting Splice 2 Hole
*13/16"Channel*



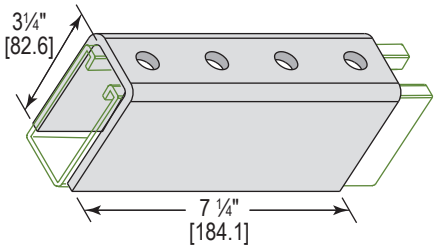

*Catalog Number: U34 0000EG*
*Weight: 0.84 Lbs.*

## U35
U-Fitting Splice 4 Hole
*2 7/16" Channel*



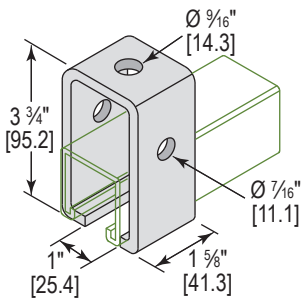

*Catalog Number: U35 0000EG*
*Weight: 3.15 Lbs.*

## U36
U-Fitting Splice 4 Hole
*3¼" Channel*




*Catalog Number: U36 0000EG*
*Weight: 3.8 Lbs.*

## U40
U-Fitting Trolley Support
*3 Hole Standard*




*Catalog Number: U40 0000EG*
*Weight: 1 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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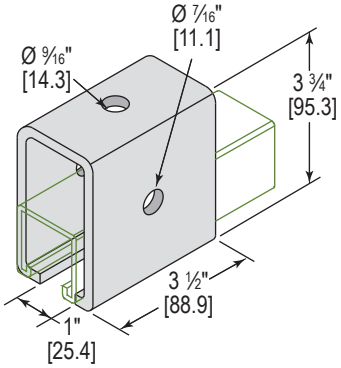
## U41

U-Fitting Trolley Support

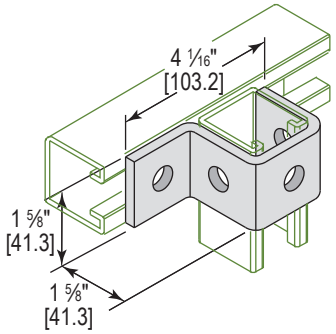
*3 Hole Heavy Duty*




*Catalog Number: U41 0000EG*
*Weight: 2.2 Lbs.*

## U50

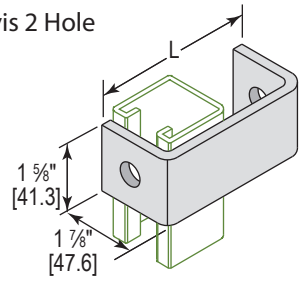
U-Fitting 4 Hole Cup Support




*Catalog Number: U50 0000EG*
*Weight: 0.67 Lbs.*

## U60

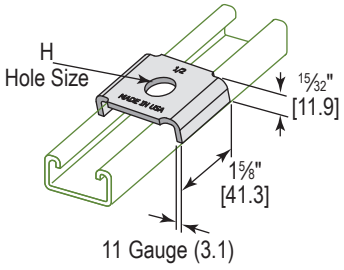
U-Fitting Clevis 2 Hole




| Catalog Number | Wt. lbs | L | |
|---|---|---|---|
| | | in | mm |
| U60 0400EG | 0.71 | 4 | 101.6 |
| U60 0500EG | 0.82 | 5 | 127.0 |
| U60 0600EG | 0.94 | 6 | 152.4 |
| U60 0700EG | 1.03 | 7 | 177.8 |
| U60 0800EG | 1.13 | 8 | 203.2 |

## U70

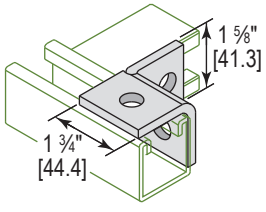
Saddle Washer




| Catalog Number | Wt. lbs | Bolt Size (in) | H (Hole Size) | |
|---|---|---|---|---|
| | | | in | mm |
| U70 0025EG | 0.14 | ¼ | 5⁄16 | 7.9 |
| U70 0037EG | 0.14 | ⅜ | 7⁄16 | 11.1 |
| U70 0050EG | 0.13 | ½ | 9⁄16 | 14.3 |
| U70 0062EG | 0.13 | ⅝ | 11⁄16 | 17.4 |
| U70 0075EG | 0.13 | ¾ | 13⁄16 | 20.6 |

## W10

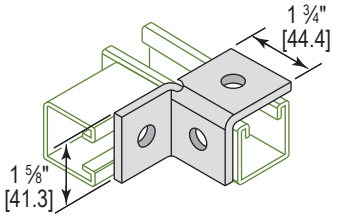
Wing Fitting Single Corner 3 Hole Right




*Catalog Number: W10 0000EG*
*Weight: 0.53 Lbs.*

## W11

Wing Fitting Single Corner 3 Hole Left




*Catalog Number: W11 0000EG*
*Weight: 0.53 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are 9⁄16" (14.3) diameter, 13⁄16" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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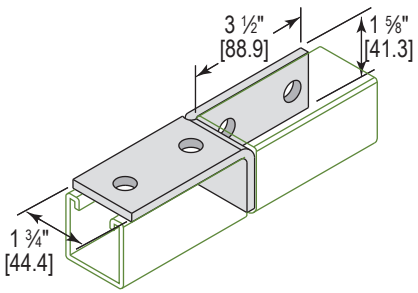
# Wing Fittings

Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

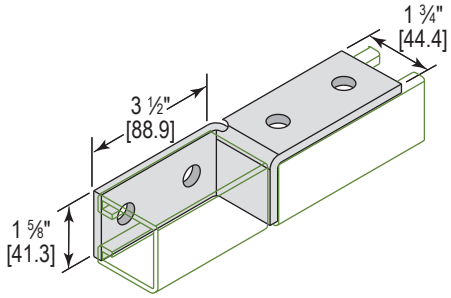
PHOENIX® SUPPORT SYSTEMS

## W12
Wing Fitting Single Corner 4 Hole Right



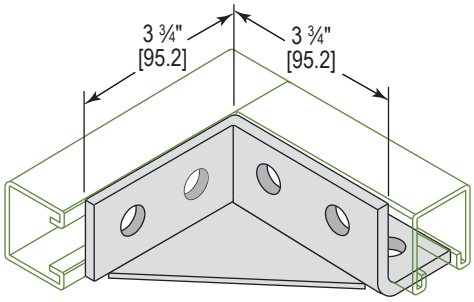

*Catalog Number: W12 0000EG*
*Weight: 0.97 Lbs.*

## W13
Wing Fitting Single Corner 4 Hole Left



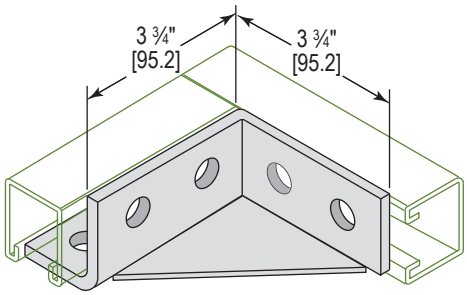

*Catalog Number: W13 0000EG*
*Weight: 0.86 Lbs.*

## W14
Wing Fitting Single Corner 6 Hole Gusset Right



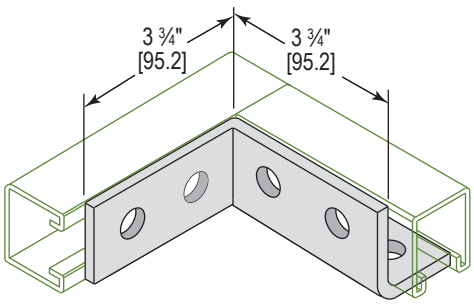

*Catalog Number: W14 0000EG*
*Weight: 1.68 Lbs.*

## W15
Wing Fitting Single Corner 6 Hole Gusset Left



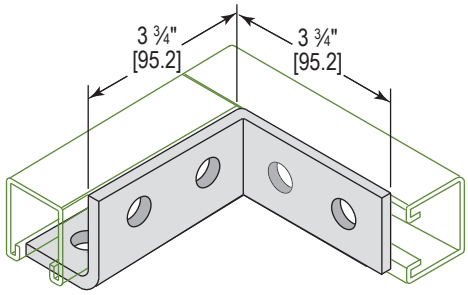

*Catalog Number: W15 0000EG*
*Weight: 1.68 Lbs.*

## W16
Wing Fitting Single Corner 6 Hole Right




*Catalog Number: W16 0000EG*
*Weight: 1.10 Lbs.*

## W17
Wing Fitting Single Corner 6 Hole Left




*Catalog Number: W17 0000EG*
*Weight: 1.10 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are ⁹⁄₁₆" (14.3) diameter, ¹³⁄₁₆" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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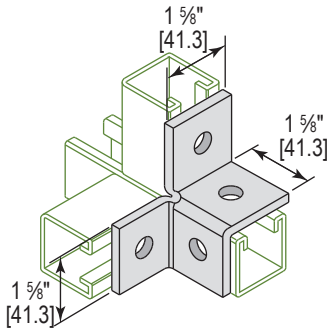
## W20

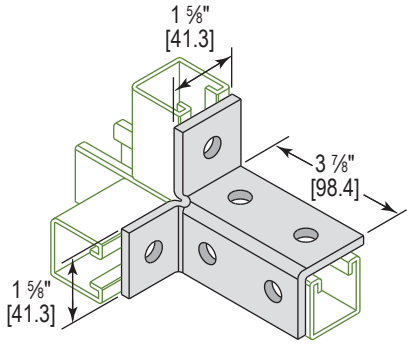
Wing Fitting Double Corner 4 Hole




*Catalog Number: W20 0000EG*
*Weight: 0.69 Lbs.*

## W21

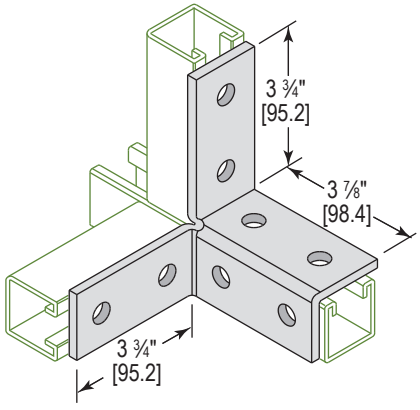
Wing Fitting Double Corner 6 Hole




*Catalog Number: W21 0000EG*
*Weight: 1.12 Lbs.*

## W22

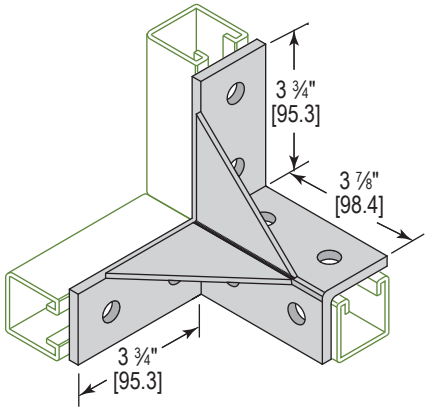
Wing Fitting Double Corner 8 Hole




*Catalog Number: W22 0000EG*
*Weight: 1.47 Lbs.*

## W23

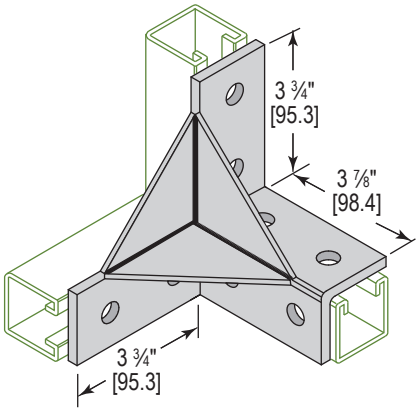
Wing Fitting Double Corner 8 Hole Gusset




*Catalog Number: W23 0000EG*
*Weight: 2.05 Lbs.*

## W24

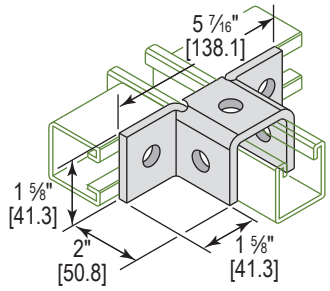
Wing Fitting Double Corner 8 Hole Double Gusset




*Catalog Number: W24 0000EG*
*Weight: 2.26 Lbs.*

## W30

Wing Fitting Corner Connector 5 Hole Opposed




*Catalog Number: W30 0000EG*
*Weight: 0.94 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are ⁹⁄₁₆" (14.3) diameter, ¹³⁄₁₆" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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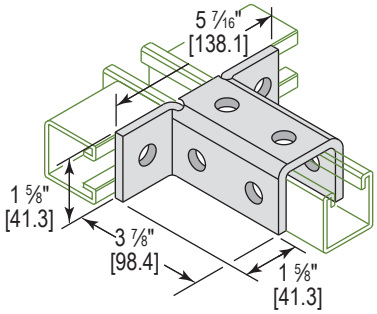
# Wing Fittings

Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

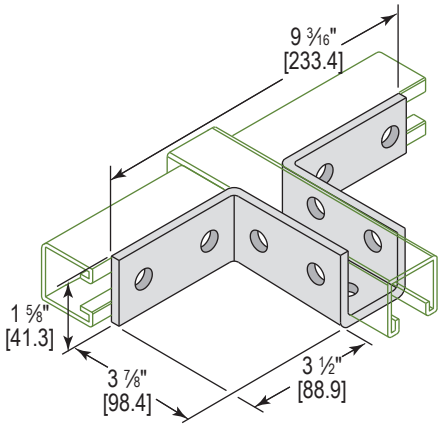
PHOENIX® SUPPORT SYSTEMS

## W31
Wing Fitting Corner Connector 8 Hole Opposed



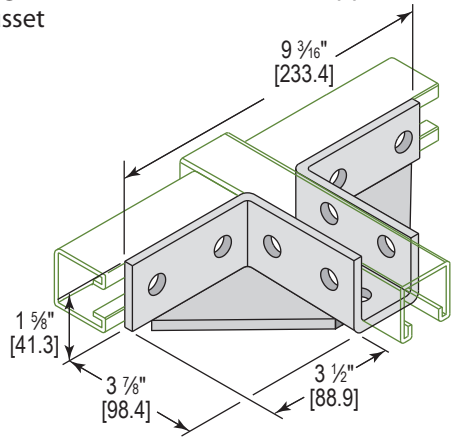

*Catalog Number: W31 0000EG*
*Weight: 1.56 Lbs.*

## W32
Wing Fitting Corner Connector 10 Hole Opposed



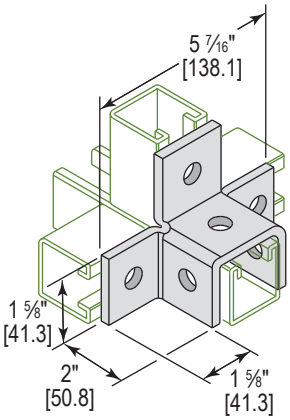

*Catalog Number: W32 0000EG*
*Weight: 1.95 Lbs.*

## W33
Wing Fitting Corner Connector 10 Hole Opposed Double Gusset



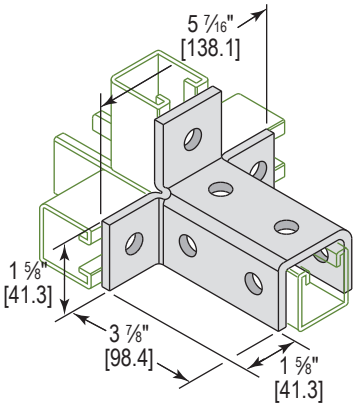

*Catalog Number: W33 0000EG*
*Weight: 2.94 Lbs.*

## W40
Wing Fitting Triple Corner 6 Hole



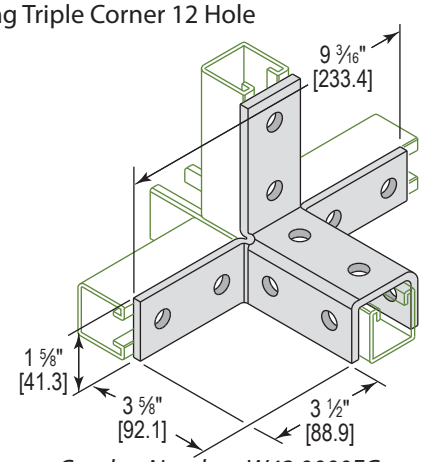

*Catalog Number: W40 0000EG*
*Weight: 1.04 Lbs.*

## W41
Wing Fitting Triple Corner 9 Hole




*Catalog Number: W41 0000EG*
*Weight: 1.57 Lbs.*

## W42
Wing Fitting Triple Corner 12 Hole




*Catalog Number: W42 0000EG*
*Weight: 2.34 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are ⁹⁄₁₆" (14.3) diameter, ¹³⁄₁₆" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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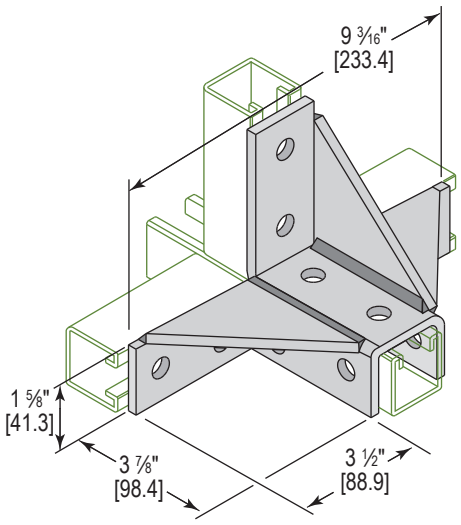
## W43

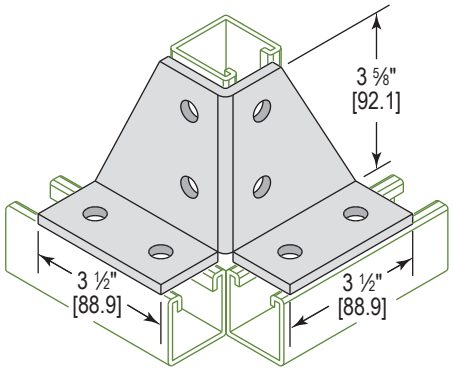
Wing Fitting Triple Corner 12 Hole Gusset




*Catalog Number: W43 0000EG*
*Weight: 2.85 Lbs.*

## W50

Wing Fitting Double Corner Connector 8 Hole




*Catalog Number: W50 0000EG*
*Weight: 2.14 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are ⁹⁄₁₆" (1 !.3) diameter, ¹³⁄₁₆" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



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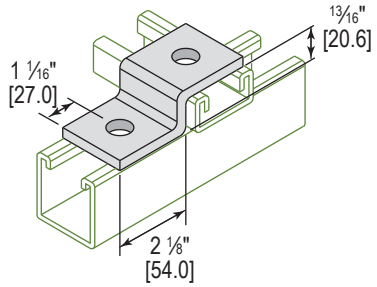
# "Z" Fittings

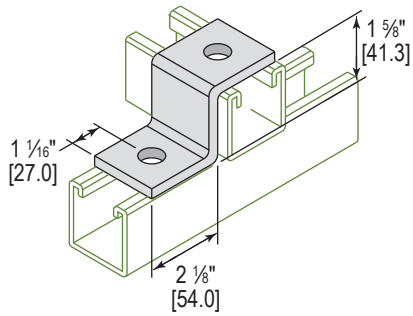
Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

## Z10
Z Fitting Cross 2 Hole 13/16"



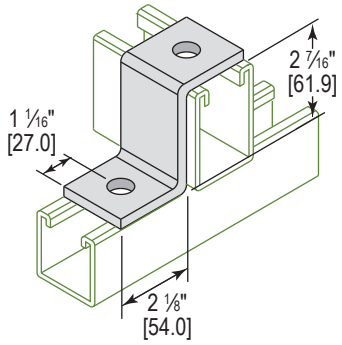

*Catalog Number: Z10 0000EG*
*Weight: 0.41 Lbs.*

## Z11
Z Fitting Cross 2 Hole 1 5/8"



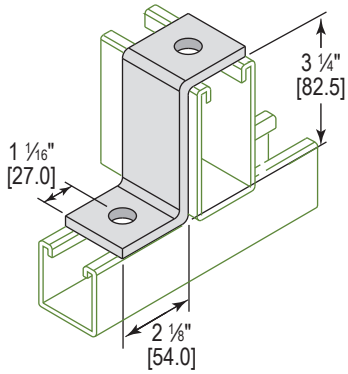

*Catalog Number: Z11 0000EG*
*Weight: 0.48 Lbs.*

## Z12
Z Fitting Cross 2 Hole 2 7/16"



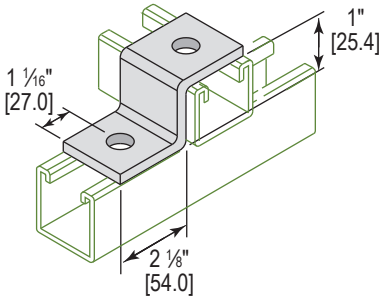

*Catalog Number: Z12 0000EG*
*Weight: 0.54 Lbs.*

## Z13
Z Fitting Cross 2 Hole 3 1/4"



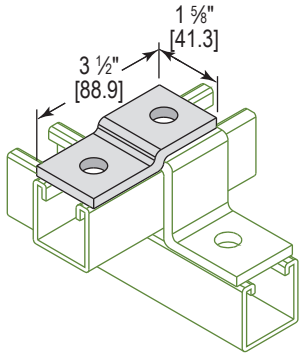

*Catalog Number: Z13 0000EG*
*Weight: 0.67 Lbs.*

## Z14
Z Fitting Cross 2 Hole 1"




*Catalog Number: Z14 0000EG*
*Weight: 0.45 Lbs.*

## Z20
Z Fitting Offset Support 2 Hole




*Catalog Number: Z20 0000EG*
*Weight: 0.35 Lbs.*

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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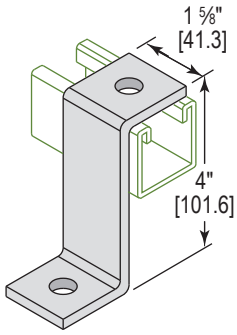
## Z30

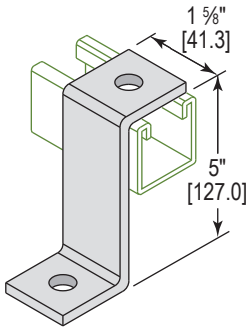
Z Fitting 2 Hole Support 4"




*Catalog Number: Z30 0000EG*
*Weight: 0.77 Lbs.*

## Z31

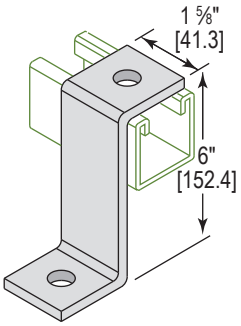
Z Fitting 2 Hole Support 5"




*Catalog Number: Z31 0000EG*
*Weight: 0.95 Lbs.*

## Z32

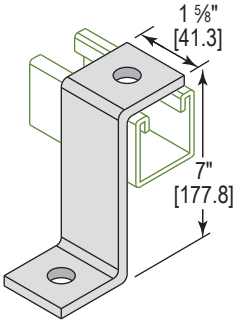
Z Fitting 2 Hole Support 6"




*Catalog Number: Z32 0000EG*
*Weight: 0.98 Lbs.*

## Z33

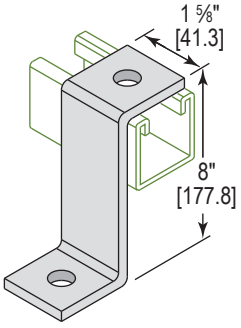
Z Fitting 2 Hole Support 7"




*Catalog Number: Z33 0000EG*
*Weight: 1.07 Lbs.*

## Z34

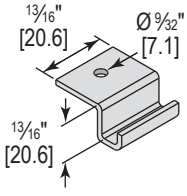
Z Fitting 2 Hole Support 8"

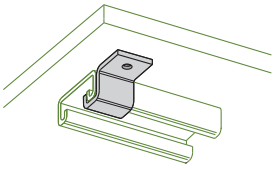



*Catalog Number: Z34 0000EG*
*Weight: 1.23 Lbs.*

## Z40

Z Fitting Channel Hanger 13/16"



Note: Material is 11 gauge

*Catalog Number: Z40 0000EG*
*Weight: 0.083 Lbs.*

*Material is 1 5/8" [41.3] wide x 1/4" [6.3] thick unless specified. Holes are 9/16" (14.3) diameter, 13/16" [20.6] center to edge on 1 7/8" [47.6] centers unless specified.*



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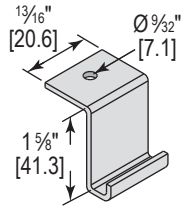
# "Z" Fittings

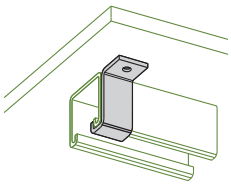
Standard finish is Zinc Electroplate (EG) • Product finishes and materials are on page 10.

PHOENIX® SUPPORT SYSTEMS

## Z41

Z Fitting Channel Hanger 1⅝"



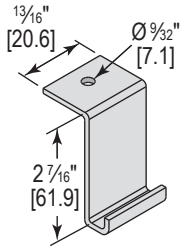



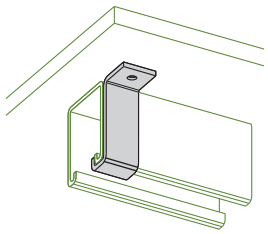
Note: Material is 11 gauge

*Catalog Number: Z41 0000EG*
*Weight: 0.09 Lbs.*

## Z42

Z Fitting Channel Hanger 2⁷⁄₁₆"



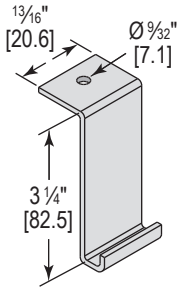



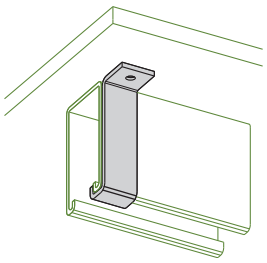
Note: Material is 11 gauge

*Catalog Number: Z42 0000EG*
*Weight: 0.112 Lbs.*

## Z43

Z Fitting Channel Hanger 3¼"



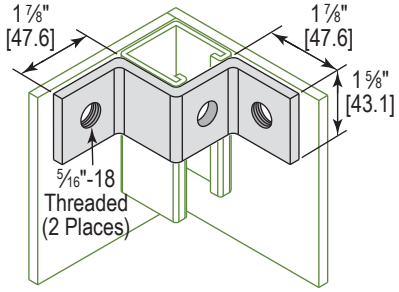



Note: Material is 11 gauge

*Catalog Number: Z43 0000EG*
*Weight: 0.134 Lbs.*

## Z50

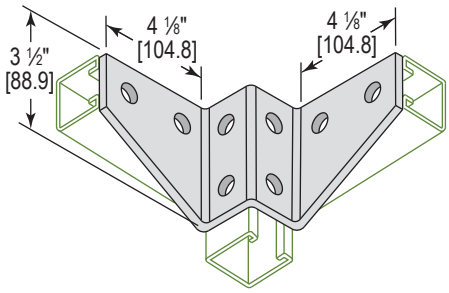
Z Fitting Corner Brace 3 Hole




*Catalog Number: Z50 0000EG*
*Weight: 0.67 Lbs.*

## Z51

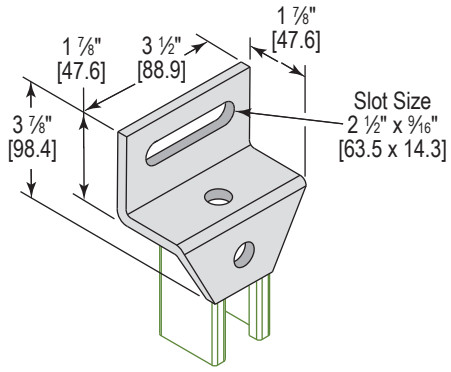
Z Fitting Corner Brace 8 Hole




*Catalog Number: Z51 0000EG*
*Weight: 2.03 Lbs.*

## Z60

Z Fitting Slotted Support




*Catalog Number: Z60 0000EG*
*Weight: 0.97 Lbs.*

*Material is 1⅝" [41.3] wide x ¼" [6.3] thick unless specified. Holes are ⁹⁄₁₆" (14.3) diameter, ¹³⁄₁₆" [20.6] center to edge on 1⅞" [47.6] centers unless specified.*



**WARNING:** These products can expose you to chemicals including lead, which is known to the State of California to cause cancer, and which is known to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

## The Next Generation of Rooftop Support Blocks

### Rooftop Support Features:

- 100% Recycled Rubber
- Qualifies for LEED Credits
- Meets the Buy America Act and American Reinvestment Recovery Act (A.R.R.A.)
- Resistance to Freeze and Thaw
- Reflective Eco-Green Stripes for Easy Visibility
- Easy to Change Strut Without Moving or Lifting Block

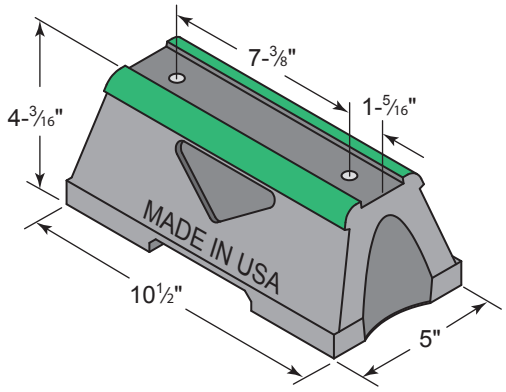
### Rooftop Support Applications:

- Solar Racking
- Pipe & Conduit Supports
- HVAC, Duct, Cable Tray Supports
- Air Conditioning Supports
- Roof Walkway Supports

**Other Support Configurations Available By Special Order. Contact Us For More Information.**

## RSB

Plain Base




The RSB 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).

| Catalog Number | Wt. lbs | Uniform Load Capacity * | |
|---|---|---|---|
| | | Lbs | Kn |
| RSB 0000RB | 3.2 | 2,500 * | 11.1 |

* 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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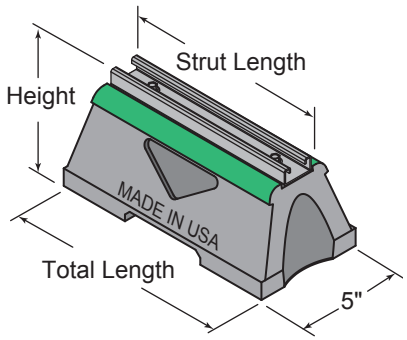
# Rooftop Support Blocks

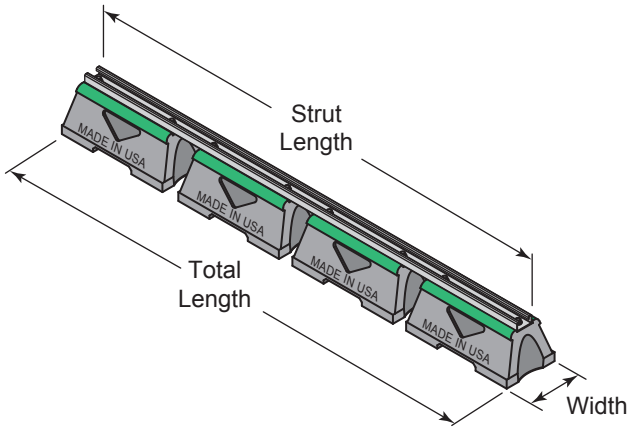
Standard finish is Pre-Galvanized (PG) • Product finishes and materials are on page 10.

PHOENIX® SUPPORT SYSTEMS

## RSB

Support with Metal Channel



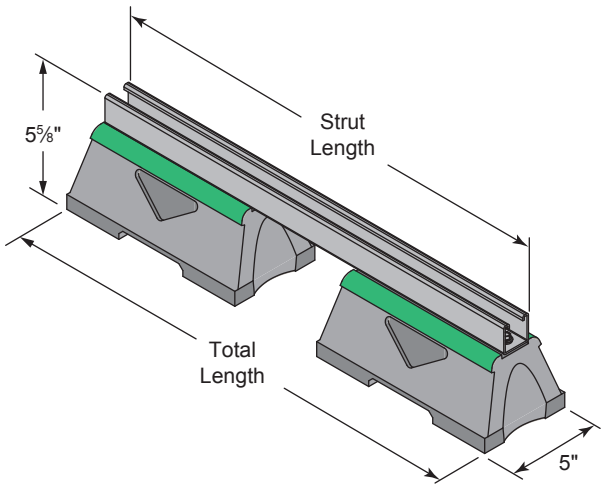

The RSB Series provides a longer mounting surface with strut lengths up to 47.5". Custom lengths are available upon request

| Catalog Number | Number of Bases | Height | Strut Length | Total Length | Weight (Lbs) | Uniform Load Capacity * | |
|---|---|---|---|---|---|---|---|
| | | | | | | Lbs | Kn |
| **RSB-Support With 13/16" Pre-Galv. 14 Gauge Steel Channel** | | | | | | | |
| RSB 1081PG | 1 | 4-13/16" | 10" | 10-1/2" | 4.0 | 2,500 * | 11.1 |
| RSB22481PG | 2 | | 23-1/2" | 24" | 8.4 | 5,000 * | 22.2 |
| RSB33681PG | 3 | | 35-1/2" | 36" | 12.6 | 7,500 * | 33.4 |
| RSB44881PG | 4 | | 47-1/2" | 48" | 16.9 | 10,000 * | 44.5 |
| **RSB-Support With 1-5/8" Pre-Galv. 12 Gauge Steel Channel** | | | | | | | |
| RSB 1016PG | 1 | 5-5/8" | 10" | 10-1/2" | 4.7 | 2,500 * | 11.1 |
| RSB22416PG | 2 | | 23-1/2" | 24" | 9.9 | 5,000 * | 22.2 |
| RSB33616PG | 3 | | 35-1/2" | 36" | 15.0 | 7,500 * | 33.4 |
| RSB44816PG | 4 | | 47-1/2" | 48" | 20.0 | 10,000 * | 44.5 |
| **RSB Support With 2-7/16" Pre-Galv. 12 Gauge Steel Channel** | | | | | | | |
| RSB 1024PG | 1 | 6-7/16" | 10" | 10-1/2" | 5.1 | 2,500 * | 11.1 |
| RSB22424PG | 2 | | 23-1/2" | 24" | 10.9 | 5,000 * | 22.2 |
| RSB33624PG | 3 | | 35-1/2" | 36" | 16.6 | 7,500 * | 33.4 |
| RSB44824PG | 4 | | 47-1/2" | 48" | 22.2 | 10,000 * | 44.5 |

* This load is only for the capacity of the components in this assembly.
Please consult roofing manufacturer or engineer for roof load capacity.

## RSB - Bridge Series

Support with Metal Channel




Like all of the Rooftop Support Blocks supports, the RSB 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 RSB Series provides a longer mounting surface with strut lengths up to 60". Custom lengths are available upon request.

Standard strut mount pipe clamps are used to secure the pipes.

| RSB - Bridge Series<br>Bridge Length Supports with 2 RSB Bases with<br>1-5/8" Pre-galvanized 12 Gauge Channel | | | | |
|---|---|---|---|---|
| Part No. | Strut Length | Total Length | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
| RSB2 2816PG | 28" | 28-1/2" | 10.8 | 1,491* |
| RSB2 3616PG | 36" | 36-1/2" | 12.0 | 1,160* |
| RSB2 4216PG | 42" | 42-1/2" | 12.9 | 994* |
| RSB2 5016PG | 50" | 50-1/2" | 14.1 | 835* |
| RSB2 6016PG | 60" | 60-1/2" | 15.6 | 696* |

* 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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PHOENIX®
SUPPORT SYSTEMS

*Also Available Through Phoenix Support Systems*

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LISTED

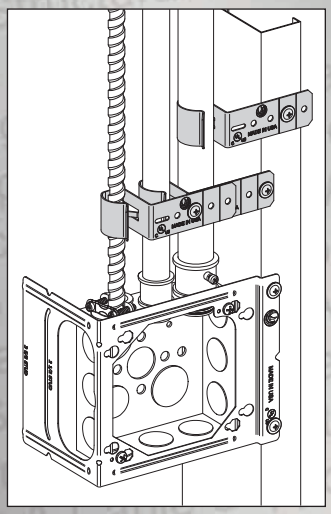
We have been manufacturing the highest quality strut accessories on the market for over a decade, and now we are bringing the same domestic quality and competitive value to you in our new Spring Steel Fastening Line. *Contact us for more information!*

# Electrical Fastening and Support Products

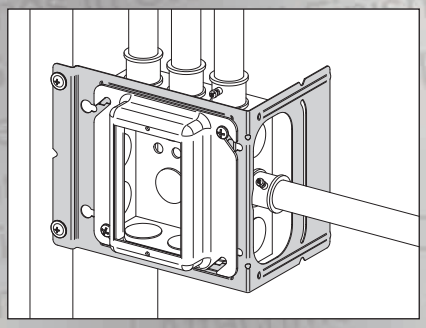
Made in USA

- Conduit and Cable Supports
- Structural Attachments
- Stud Wall Applications
- Ceiling and Acoustical Applications

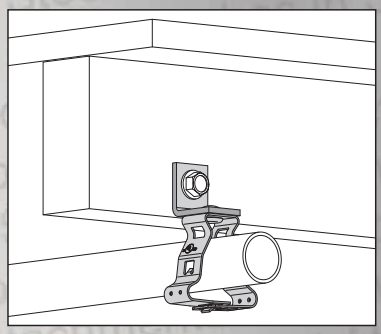
CCS - Conduit Clip to Studs



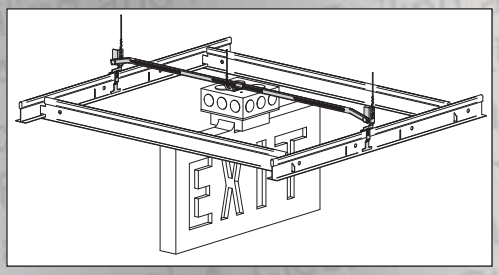
BBS - Electrical Box Bracket for Wood or Metal Studs



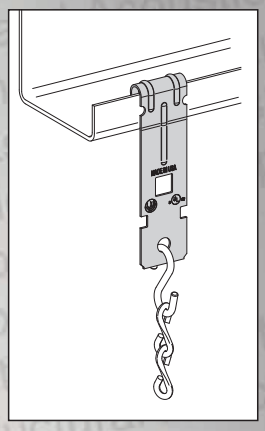
AB NB C - Angle Bracket, Nail Bracket and Conduit Clip



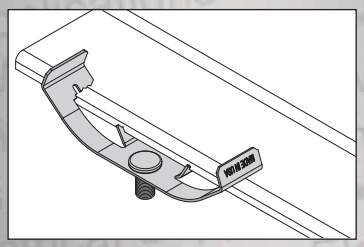
EB EBC - Electrical Box Hanger



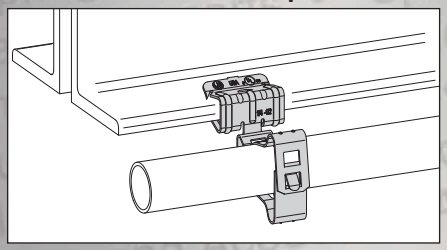

FVZ - Flange Hanger Purlins and Bar Joists



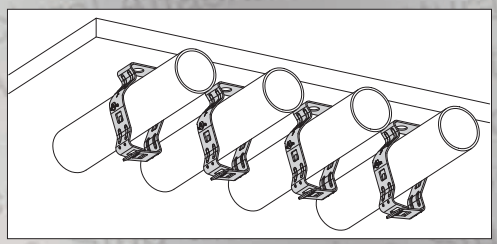
MF - Multi-Function Clip



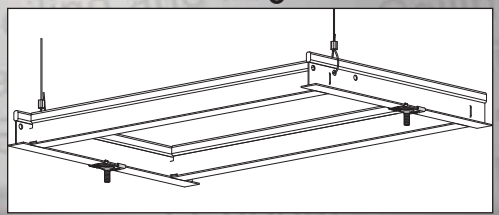
FS C - Flange Clip and Conduit Clip



C & CT - Conduit Clips



TC TN - Twist Clip and Wing Nut





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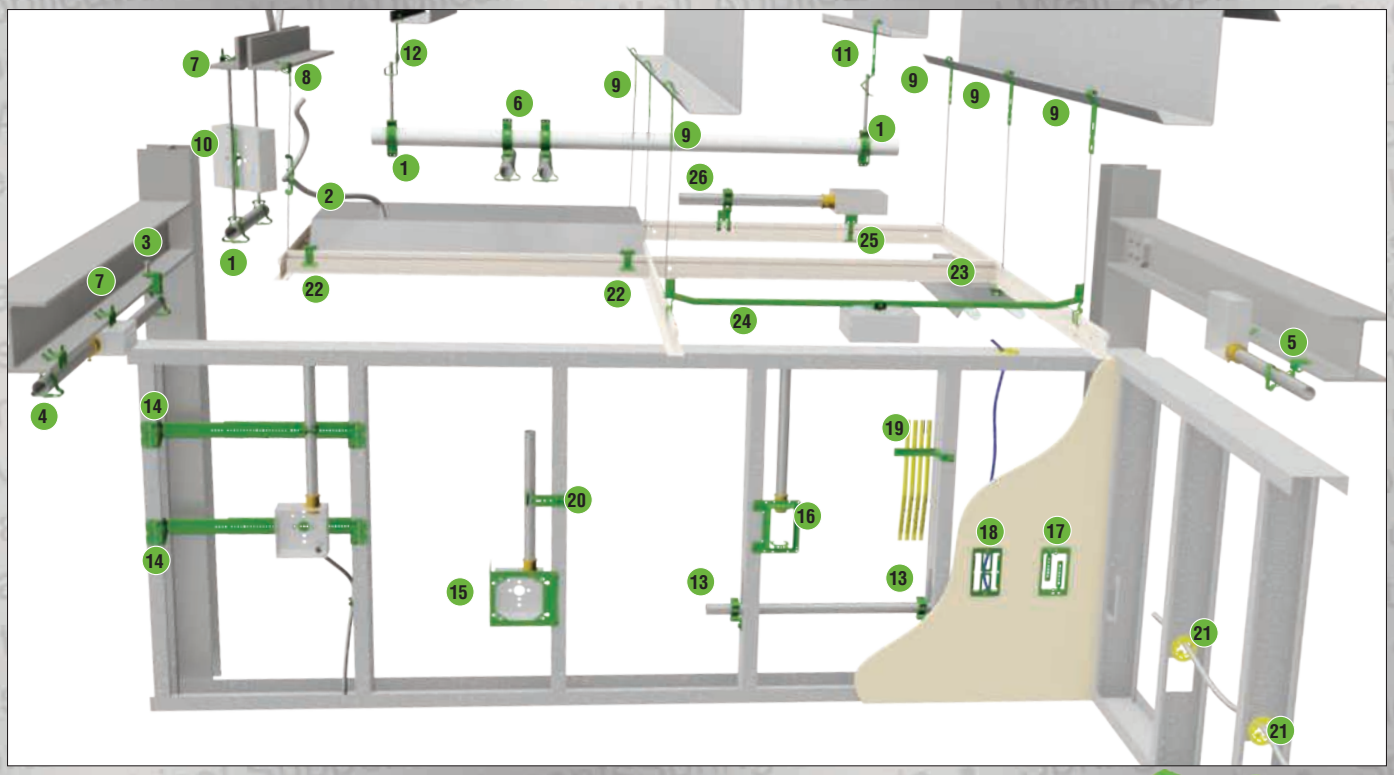
**www.phoenixsupports.com**

PHOENIX® SUPPORT SYSTEMS

*Also Available Through Phoenix Support Systems*

# Phoenix Spring Steel Electrical Supports

**We have been manufacturing the highest quality strut accessories on the market for over a decade, and now we bring the same domestic quality and competitive value to you in our Spring Steel Fastening Line. Contact us for more information!**




**Domestically manufactured for the most reliable quality and finish in the industry**

## Always Trust American Made!

# Electrical Fastening and Support Products

Made in USA

## Conduit and Cable Support

| | | | | | |
|---|---|---|---|---|---|
| **1 C/CT** | **CP** | **PCH** | **2 W/WX** | **MF C** | **MF CP** |
| Conduit Clip | Conduit "Push In" Clip | Pipe and Conduit Hanger | Wing Clip Conduit Hanger | Multi-Function Clip with Conduit Clip | Multi-Function Clip with Conduit "Push In" Clip |
| | | | | | |
| **3 BC C** | **BC CP** | **4 F C** | **F CP** | **5 FS C** | **FS CP** |
| Beam Clamp with Conduit Clip | Beam Clamp with Conduit "Push In" Clip | Flange Clip with Conduit Clip | Flange Clip with Conduit "Push In" Clip | Flange Clip Side Mount with Conduit Clip | Flange Clip Side Mount with Conduit "Push In" Clip |
| | | | | | |
| **FV C** | **6 C C** | **CP CP** | **PCH PCH** | **CCF** | **BR** |
| Flange Hanger with Conduit Clip | Conduit Clip with Conduit Clip | Conduit "Push In" Clip with Conduit "Push In" Clip | Pipe & Conduit Hanger with Pipe & Conduit Hanger | Cable Clip to Flange | Bridle Ring |
| | | | | | |

**Browse Our Electrical Supports Catalog**
**Visit www.phoenixsupports.com**

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PHOENIX® SUPPORT SYSTEMS

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## Structural Attachment

| 7 F | 8 FS | 9 FVZ | 10 MF | RP | RT |
|---|---|---|---|---|---|
| Flange Clip | Flange Clip Side Mount | Flange Hanger for Purlins and Bar Joist | Multi-Function Clip | Rod Hanger Push Install | Rod Hanger Thread Install |
| **FS RP** | **FS RT** | **11 FVZ RP** | **12 FVZ RT** | **AB** | **13 AB NB C** |
| Flange Clip Side Mount with Rod Hanger Push Install | Flange Clip Side Mount with Rod Hanger Thread Install | Flange Hanger with Rod Hanger Push Install | Flange Hanger with Rod Hanger Thread Install | Angle Bracket | Angle & Nail Bracket with Conduit Clip |
| **AB NB CP** | **AB PCH** | **NB PCH** | **AB RP** | **AB RT** | **PSP** |
| Angle & Nail Bracket w/Conduit “Push In” Clip | Angle Bracket with Pipe & Conduit Hanger | Nail Bracket with Pipe & Conduit Hanger | Angle Bracket with Rod Hanger Push Install | Angle Bracket with Rod Hanger Thread Install | Pipe Sleeve Positioner |
| **BC** | **BC92** | **SH** | **FS SH** | **FVZ SH** | **AB SH** |
| Beam Clamp | Light Duty Beam Clamp | Strap Hanger | Flange Clip Side Mount with Strap Hanger | Flange Hanger with Strap Hanger | Angle Bracket with Strap Hanger |



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# Electrical Fastening and Support Products

Made in USA



## Stud Wall

### 14 BBA
Adjustable Screw Gun Bracket for Wood or Metal Stud

### 15 BBS
Electrical Box Bracket for Wood or Metal Stud

### 16 LVPN
Low Voltage Mounting Plate for New Construction

### 17 LVPS
Low Voltage Mounting Plate for Existing Construction

### 18 LVP
Low Voltage Mounting Plate for Existing Construction

### MSC C CP
Metal Stud Clip with Conduit Clip or "Push In" Clip

### 19 CSS
Cable Support Strap for Wood or Metal Stud

### 20 CCS
Conduit Clip to Wood or Metal Stud

### CCM
MC/AC Cable Clip to Metal Stud

### 21 USG
Universal Stud Grommet

### STS8
Self Drilling and Tapping Screw

## Ceiling and Acoustical

### 22 SCT
Support Clip for Troffer Lights & Lay In

### 23 TC TN
Twist Clip and Wing Nut

### 24 EB
Electrical Box Hanger and Center Clip

### 25 TB
T-Bar Clip

### 26 TB C
T-Bar Clip with Conduit Clip

### TB CP
T-Bar Clip with Conduit "Push In" Clip

### CB18
Conduit and Box Support

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## Outside Diameters of Standard Pipes & Tubing

| Schedule 40 & 80 Iron Pipe & PVC<br>Schedule 5, 10, 40 & 80 Aluminum<br>Schedule 5, 10, & 40 Stainless Steel | | | |
|---|---|---|---|
| Nominal Pipe Size | | O.D. | |
| Inch | Metric | in | mm |
| ⅛ | 3 | 0.405 | 10.3 |
| ¼ | 6 | 0.540 | 13.7 |
| ⅜ | 10 | 0.675 | 17.1 |
| ½ | 15 | 0.840 | 21.3 |
| ¾ | 20 | 1.050 | 26.7 |
| 1 | 25 | 1.315 | 33.4 |
| 1¼ | 32 | 1.660 | 42.2 |
| 1½ | 40 | 1.900 | 48.3 |
| 2 | 50 | 2.375 | 60.3 |
| 2½ | 65 | 2.875 | 73.0 |
| 3 | 80 | 3.500 | 88.9 |
| 3½ | 90 | 4.000 | 101.6 |
| 4 | 100 | 4.500 | 114.3 |
| 4½ | 115 | 5.000 | 127.0 |
| 5 | 125 | 5.563 | 141.3 |
| 6 | 150 | 6.625 | 168.3 |
| 8 | 200 | 8.625 | 219.1 |
| 10 | 250 | 10.750 | 273.1 |
| 12 | 300 | 12.750 | 323.9 |
| All sizes over 12" Nominal Pipe Size = O.D | | | |

| Standard Plastic Pipe | | | |
|---|---|---|---|
| Nominal Pipe Size | | O.D. | |
| Inch | Metric | in | mm |
| ½ | 15 | 0.600 | 15.2 |
| ¾ | 20 | 0.856 | 21.7 |
| 1 | 25 | 1.140 | 29.0 |
| 1¼ | 32 | 1.420 | 36.1 |
| 1½ | 40 | 1.730 | 43.9 |
| 2 | 50 | 2.250 | 57.2 |
| 3 | 80 | 3.250 | 82.6 |
| 4 | 100 | 4.100 | 104.1 |
| 6 | 150 | 6.220 | 158.0 |

| Electro Mechanical Tubing (EMT) | | | |
|---|---|---|---|
| Nominal Pipe Size | | O.D. | |
| Inch | Metric | in | mm |
| ⅜ | 10 | 0.577 | 14.7 |
| ½ | 15 | 0.706 | 17.9 |
| ¾ | 20 | 0.922 | 23.4 |
| 1 | 25 | 1.163 | 29.5 |
| 1¼ | 32 | 1.510 | 38.4 |
| 1½ | 40 | 1.740 | 44.2 |
| 2 | 50 | 2.197 | 55.8 |
| EMT sizes over 2 are the same as Schedule 40 iron pipe | | | |

| Standard Copper Tubing | | | |
|---|---|---|---|
| Nominal Pipe Size | | O.D. | |
| Inch | Metric | in | mm |
| ¼ | 6 | 0.375 | 9.5 |
| ⅜ | 10 | 0.500 | 12.7 |
| ½ | 15 | 0.625 | 15.9 |
| ⅝ | 17 | 0.750 | 19.1 |
| ¾ | 20 | 0.875 | 22.2 |
| 1 | 25 | 1.125 | 28.6 |
| 1¼ | 32 | 1.375 | 34.9 |
| 1½ | 40 | 1.625 | 41.3 |
| 2 | 50 | 2.125 | 54.0 |
| 2½ | 65 | 2.625 | 66.7 |
| 3 | 80 | 3.125 | 79.4 |
| 3½ | 90 | 3.625 | 92.1 |
| 4 | 100 | 4.125 | 104.8 |
| 5 | 125 | 5.125 | 130.2 |
| 6 | 150 | 6.125 | 155.6 |
| 7 | 175 | 7.125 | 181.0 |
| 8 | 200 | 8.125 | 206.4 |

| Glass Pipe | | | |
|---|---|---|---|
| Nominal Pipe Size | | O.D. | |
| Inch | Metric | in | mm |
| ½ | 15 | 0.750 | 19.1 |
| ¾ | 20 | 1.000 | 25.4 |
| 1 | 25 | 1.312 | 33.3 |
| 1½ | 40 | 1.844 | 46.8 |
| 2 | 50 | 2.344 | 59.5 |
| 3 | 80 | 3.406 | 86.5 |
| 4 | 100 | 4.530 | 115.1 |
| 6 | 150 | 6.656 | 169.1 |
| Glass pipe has the same O.D. for both regular & heavy schedule. | | | |

| Extra Heavy Cast Iron Soil Pipe | | |
|---|---|---|
| Nominal Pipe Size | O.D. | |
| | in | mm |
| 2" | 2.38 | 60.5 |
| 3" | 3.50 | 88.9 |
| 4" | 4.50 | 114.3 |
| 5" | 5.50 | 139.7 |
| 6" | 6.50 | 165.1 |
| 8" | 8.62 | 218.9 |
| 10" | 10.75 | 273.1 |
| 12" | 12.75 | 323.9 |
| 15" | 15.88 | 403.4 |

| Service Weight Cast Iron Soil Pipe | | |
|---|---|---|
| Nominal Pipe Size | O.D. | |
| | in | mm |
| 2" | 2.30 | 58.4 |
| 3" | 3.30 | 83.8 |
| 4" | 4.30 | 109.2 |
| 5" | 5.30 | 134.6 |
| 6" | 6.30 | 160.0 |
| 8" | 8.38 | 212.9 |
| 10" | 10.50 | 266.7 |
| 12" | 12.50 | 317.5 |
| 15" | 15.62 | 396.7 |

| SDR-35 & DR-28 Gravity Sewer Pipe | | |
|---|---|---|
| Nominal Pipe Size | O.D. | |
| | in | mm |
| 4" | 4.22 | 107.2 |
| 6" | 6.28 | 159.5 |
| 8" | 8.40 | 213.4 |
| 10" | 10.50 | 266.7 |
| 12" | 12.50 | 317.5 |
| 15" | 15.30 | 388.6 |
| 18" | 18.70 | 475.0 |
| 21" | 22.05 | 560.1 |
| 24" | 24.80 | 629.9 |
| 27" | 27.95 | 709.9 |
| 30" | 32.00 | 812.8 |

| AWWA-C900, C905; PVC Water Pipe<br>Ductile Iron Pipe<br>Centrifugally Spun Cast Iron Pipe | | |
|---|---|---|
| Nominal Pipe Size | O.D. | |
| | in | mm |
| 2" | 2.50 | 63.5 |
| 2 1⁄4" | 2.75 | 69.8 |
| 3" | 3.96 | 100.6 |
| 4" | 4.80 | 121.9 |
| 6" | 6.90 | 175.3 |
| 8" | 9.05 | 229.9 |
| 10“ | 11.10 | 281.9 |
| 12" | 13.20 | 335.3 |
| 14" | 15.30 | 388.6 |
| 16" | 17.40 | 442.0 |
| 18" | 19.50 | 495.3 |
| 20" | 21.60 | 548.6 |
| 24" | 25.80 | 655.3 |
| 30" | 32.00 | 812.8 |
| 36" | 38.30 | 972.8 |
| 42" | 44.50 | 1130.3 |
| 48" | 50.80 | 1290.3 |

## Strut Clamp Sizing By O.D.

| O.D. | | Description |
|---|---|---|
| in | mm | |
| 0.250 | 6.4 | SCO |
| 0.375 | 9.5 | SCO/1/4" SCC |
| 0.500 | 12.7 | SCO/3/8" SCC |
| 0.540 | 13.7 | 1/4" SCR |
| 0.577 | 14.7 | 3/8" SCE |
| 0.625 | 15.9 | SCO/1/2" SCC |
| 0.706 | 17.9 | 1/2" SCE |
| 0.750 | 19.1 | SCO/5/8" SCC |
| 0.773 | 19.6 | 1/2" SCU |
| 0.840 | 21.3 | 1/2" SCR |
| 0.875 | 22.2 | SCO/3/4" SCC |
| 0.922 | 23.4 | 3/4" SCE |
| 0.986 | 25.0 | 3/4" SCU |
| 1.000 | 25.4 | SCO |
| 1.050 | 26.7 | 3/4" SCR |
| 1.125 | 28.6 | SCO/1" SCC |
| 1.163 | 29.5 | 1" SCE |
| 1.239 | 31.5 | 1" SCU |
| 1.250 | 31.8 | SCO |
| 1.315 | 33.4 | 1" SCR |
| 1.375 | 34.9 | SCO/1 1/4" SCC |
| 1.500 | 38.1 | SCO |
| 1.510 | 38.4 | 1 1/4" SCE |
| 1.585 | 40.3 | 1 1/4" SCU |
| 1.625 | 41.3 | SCO/1 1/2" SCC |
| 1.660 | 42.2 | 1 1/4" SCR |
| 1.740 | 44.2 | 1 1/2" SCE |
| 1.750 | 44.5 | SCO |
| 1.820 | 46.2 | 1 1/2" SCU |
| 1.875 | 47.6 | SCO |
| 1.900 | 48.3 | 1 1/2" SCR |
| 2.000 | 50.8 | SCO |
| 2.125 | 54.0 | SCO/2" SCC |
| 2.197 | 55.8 | 2" SCE |
| 2.250 | 57.2 | SCO |
| 2.286 | 58.1 | 2" SCU |
| 2.375 | 60.3 | SCO/2" SCR |
| 2.500 | 63.5 | SCO |
| 2.625 | 66.7 | SCO/2-1/2" SCC |
| 2.750 | 69.9 | SCO |
| 2.875 | 73.0 | SCO/2-1/2" SCR |
| 3.000 | 76.2 | SCO |
| 3.125 | 79.4 | SCO/3" SCC |
| 3.250 | 82.6 | SCO |
| 3.375 | 85.7 | SCO |
| 3.500 | 88.9 | SCO/3" SCR |
| 3.625 | 92.1 | SCO /3 1/2" SCC |
| 3.750 | 95.3 | SCO |

| O.D. | | Description |
|---|---|---|
| in | mm | |
| 3.875 | 98.4 | SCO |
| 4.000 | 101.6 | SCO/3 1/2" SCR |
| 4.125 | 104.8 | SCO /4" SCC |
| 4.250 | 108.0 | SCO |
| 4.375 | 111.1 | SCO |
| 4.500 | 114.3 | SCO/4" SCR |
| 4.625 | 117.5 | SCO |
| 4.750 | 120.7 | SCO |
| 4.875 | 123.8 | SCO |
| 5.000 | 127.0 | SCO |
| 5.125 | 130.2 | SCO/5" SCC |
| 5.250 | 133.4 | SCO |
| 5.375 | 136.5 | SCO |
| 5.500 | 139.7 | SCO |
| 5.563 | 141.3 | 5" SCR |
| 5.625 | 142.9 | SCO |
| 5.750 | 146.1 | SCO |
| 5.875 | 149.2 | SCO |
| 6.000 | 152.4 | SCO |
| 6.125 | 155.6 | SCO /6" SCC |
| 6.250 | 158.8 | SCO |
| 6.375 | 161.9 | SCO |
| 6.500 | 165.1 | SCO |
| 6.625 | 168.3 | SCO/6" SCR |
| 6.750 | 171.5 | SCO |
| 6.875 | 174.6 | SCO |
| 7.000 | 177.8 | SCO |
| 7.125 | 181.0 | SCO/7" SCC |
| 7.250 | 184.2 | SCO |
| 7.375 | 187.3 | SCO |
| 7.500 | 190.5 | SCO |
| 7.625 | 193.7 | SCO |
| 7.750 | 196.9 | SCO |
| 7.875 | 200.0 | SCO |
| 8.000 | 203.2 | SCO |
| 8.125 | 206.4 | SCO/8" SCC |
| 8.250 | 209.6 | SCO |
| 8.375 | 212.7 | SCO |
| 8.500 | 215.9 | SCO |
| 8.625 | 219.1 | SCO/8" SCR |
| 8.750 | 222.3 | SCO |
| 8.875 | 225.4 | SCO |
| 9.000 | 228.6 | SCO |
| 9.125 | 231.8 | SCO |
| 10.750 | 273.1 | 10" SCR |
| 12.750 | 323.9 | 12" SCR |

## General Information

The following are the torque values used for the determining the load ratings of Phoenix Products when attached to channel framing as specified by Metal Framing Manufacturer's Association (MFMA) Standard #2:

| Thread Size | | Torque | | |
|---|---|---|---|---|
| Inch | mm | in. lb. | ft. lb. | Nm |
| 1/4 | 6.4 | 72 | 6 | 8.1 |
| 5/16 | 7.9 | 132 | 11 | 14.9 |
| 3/8 | 9.6 | 228 | 19 | 25.8 |
| 1/2 | 11.1 | 600 | 50 | 67.8 |

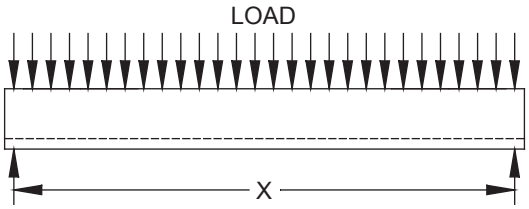
For beam clamps or other applications the following torque values from Manufacturer's Standardization Society (MSS) SP-69 are recommended unless otherwise specified.

| Thread Size | | Torque | | |
|---|---|---|---|---|
| Inch | mm | in. lb. | ft. lb. | Nm |
| 1/4 | 6.4 | 40 | 3.3 | 4.5 |
| 5/16 | 7.9 | 50 | 4.2 | 5.6 |
| 3/8 | 9.6 | 60 | 5.0 | 6.8 |
| 7/16 | 11.1 | 90 | 7.5 | 10.2 |
| 1/2 | 12.7 | 125 | 10.4 | 14.1 |
| 9/16 | 14.3 | 180 | 15.0 | 20.3 |
| 5/8 | 15.8 | 250 | 20.8 | 28.2 |
| 3/4 | 19.0 | 400 | 33.3 | 45.2 |
| 7/8 | 22.2 | 665 | 55.4 | 75.1 |
| 1 | 25.4 | 990 | 82.5 | 111.9 |

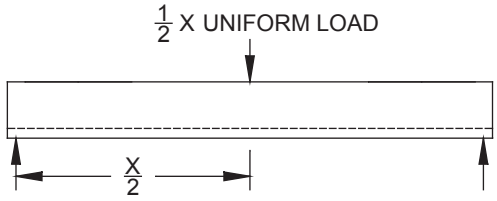
**Note: Caution should be taken not to over tighten the set screw on iron beam clamps as this will cause distortion, a lower maximum load capability and possible breakage.**

**Uniform load and Point load**

When a distributed load has a constant value over the entire bracket or beam length, it is said to be uniformly loaded. This would be similar to loading identical boxes on a shelf side by side. A point load is when the force of the load is concentrated on one point along the bracket or beam. Using identical supports as shown below and the point load located ½ way between the supports, the point load rating will be ½ the uniform load rating. Load ratings are generally listed in pounds (lb.) or kilo Newtons (kN).



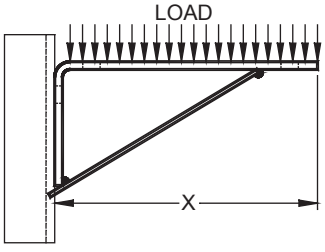

**Uniform load**



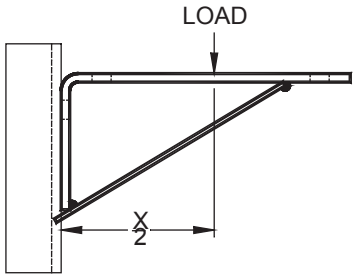

**Point load**

**Cantilever load**

A cantilever bracket or beam is rigidly attached at one end and is completely free at the other end. A cantilever load is applied at one point or spread along a section of the length of a bracket or beam and causes a twisting load or moment at the mounting point. Load ratings for this type of bracket are generally listed in inch pounds (in. lb.) or Newton meter (Nm). A uniformly applied load on a bracket (figure "A") may be considered as a point load by taking the uniform load and expressing it as a single point load of the same force at a distance of ½ the total distance the load is spread over as shown in figure "B". This is calculated by multiplying ½ the distance "X", in inches or meters, by the load expressed in pounds or Newtons.




**Cantilever load (Figure "A")**



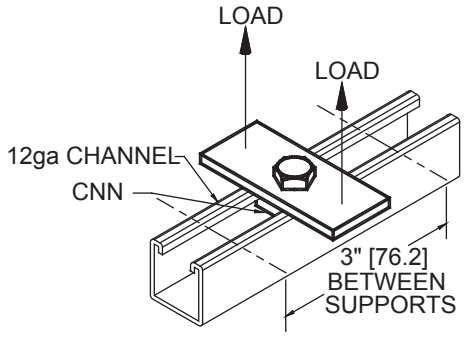

**Cantilever load (Figure "B")**

## General Information (cont.)

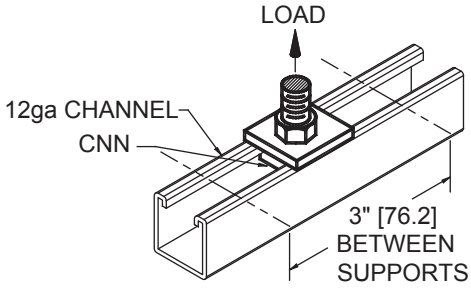
### Testing Methods for Strut Fittings:

Fittings are tested for pull out of the channel by supporting the channel at 3" [76.2mm] spacing and applying a load perpendicular to the channel with the fitting attached according to the recommended methods and mounting torque as stated in MFMA Standards using channel meeting MFMA standards.
See page 86 for MFMA torque values.

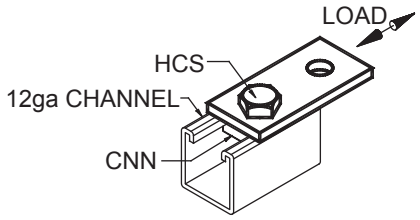
**Pullout Test with Load on Fitting.**




**Pullout Test with Load on Rod**




The channel nut sliding inside the channel is tested by supporting the channel by such method that the channel is stationary and applying a load parallel to the channel with the fitting attached according to the recommended methods and mounting torque as stated in MFMA Standards using channel meeting MFMA standards.

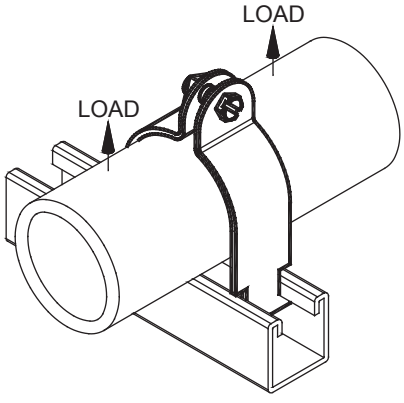



**Slip Test for Strut Fittings**

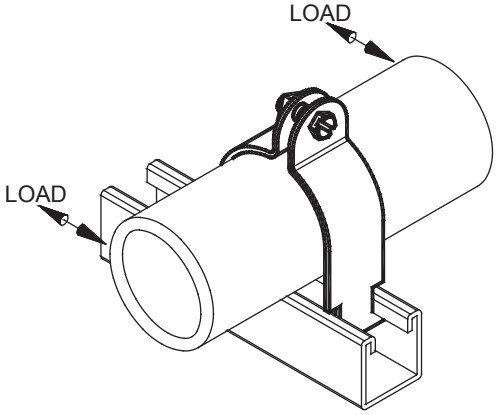
### Testing Methods for Strut Clamps:

Strut clamps are tested for pull out of the channel by supporting the channel solidly and applying a load perpendicular to the channel. Strut clamps are tested for sliding in the channel by supporting the channel solidly and applying a load parallel to the channel. The clamps are attached according to the recommended methods using methods and channel meeting MFMA standards.

**Pull Out Test on Strut Clamp**




**Slip Test on Strut Clamp**



PHOENIX® SUPPORT SYSTEMS

# Index


| Part | Desciption | Page |
|---|---|---|
| BC10 | Beam Clamp Formed Steel | 38 |
| BC11 | Beam Clamp Formed Steel with J-Hook | 38 |
| BC12 | Swivel Nut for use with BC10, BC11 and BC14 | 38 |
| BC13 | Beam Clamp Anchor Strap | 38 |
| BC14 | Beam Clamp Swivel Adapter for BC10 | 38 |
| BC15 | Formed Steel Beam Clamp | 39 |
| BC16 | Formed Steel Heavy Duty Beam Clamp | 39 |
| BC17 | Formed Steel Heavy Duty Beam Clamp | 39 |
| BC18 | Formed Steel Beam Clamp | 39 |
| BC20, BC21 | Strut to Beam Clamp C-Type | 40 |
| BC22 | Strut to Beam Clamp C-Type, Parallel | 40 |
| BC23 | Cable Tray Clamp | 40 |
| BC24 | Cable Tray Guide | 40 |
| BC30 | Strut to Beam Clamp Z-Type | 40 |
| BC40 | Strut to Beam Clamp Window Type | 40 |
| BC50 | Strut to Beam Spreader Caps | 41 |
| BC51 | Strut to Beam Spreader Caps | 41 |
| BC60 | Strut to Beam Clamp with Square U-Bolt | 42 |
| BC61 | Strut to Beam Clamp with Square U-Bolt | 42 |
| BC62 | Strut to Beam Clamp with Square U-Bolt and J-Hook | 42 |
| BC63 | Strut to Beam Clamp with Square U-Bolt and J-Hook | 42 |
| BC64 | Strut to Beam Clamp with Square U-Bolts & Connecting Stud | 43 |
| BC65 | Strut to Beam Clamp with Square U-Bolts & Connecting Stud Double for 2-7/16" & 3-1/4" Channel | 43 |
| BC66 | Strut to Beam Clamp with Square U-Bolt For 5" maximum | 43 |
| BC68 | Strut to Beam Clamp with Square U-Bolt For 6-1/2" maximum | 43 |
| BC69 | Strut to Beam Clamp with Square U-Bolt and J-Hook | 44 |
| BC70 | Strut to Beam Clamp Notched Type | 41 |
| BC71 | Strut to Beam Clamp Double | 44 |
| BC80 | Malleable Iron Universal Beam Clamp | 44 |
| BC81 | Wide Mouth Malleable Iron Universal Beam Clamp | 45 |
| BC90 | Malleable Iron Rod Support Beam Clamp | 46 |
| BC91 | Malleable Iron Universal Beam Clamp | 46 |
| BC92 | Light Duty Beam Clamp | 46 |
| BR20 | Bracket 3 Hole | 47 |
| BR21 | Bracket 6 Hole | 47 |
| BR22 | Bracket with Brace 6 Hole | 48 |
| BR30 | Bracket for 1-5/8" Channel | 48 |
| BR31 | Bracket for 3-1/4" Channel | 48 |
| BR40 | Bracket Channel 1-5/8" Channel 2 Hole | 48 |
| BR41 | Bracket Channel Wrap Around 1-5/8" Channel | 49 |
| BR42 | Bracket Double 1-5/8" Channel | 49 |
| BR43 | Bracket Channel Notched, Up | 49 |
| BR44 | Bracket Channel Notched, Down | 49 |
| BR45 | Bracket Channel | 50 |
| BR46 | Bracket Channel 1-5/8" Channel 2 Hole Heavy | 50 |
| BR47 | Ladder Bracket | 50 |
| BR50 | Utility Pole Bracket – Extended Standoff | 50 |
| BR8L | Slotted Shelf Bracket (Left Hand) | 47 |
| BR8R | Slotted Shelf Bracket (Right Hand) | 47 |
| CCP | Cushioned Pipe Strut Clamp | 19 |
| CCT | Cushioned Tubing Strut Clamp | 19 |
| CI | Concrete Insert | 52 |
| CI20, CI21, CI22 | Concrete End Cap Anchor | 52 |
| CIN | Concrete Insert Nut | 52 |
| CIT | Therma-shield Clamp | 20 |
| CLC, CLE | Clutch Clamp for Tube and EMT Conduit | 20 |
| CNC | Channel Cone Nut | 12 |
| CND | Channel Stud Nut Regular Spring | 11 |
| CNL | Channel Nut Long Spring | 11, 13 |
| CNN | Channel Nut No Spring | 11, 13 |
| CNR | Channel Nut Regular Spring | 11, 13 |
| CNS | Channel Nut Short Spring | 11, 13 |
| CNSQ | Channel Squeeze Nut | 12 |
| CNT | Channel Nut Top Spring | 12, 13 |
| CNW | Combo Nut Washer | 12 |
| EC07, EC08, EC09 | Plastic End Cap | 53 |
| EC10 | End Cap (1-5/8" 12 Ga. Channel) | 53 |
| EC11 | End Cap (1-5/8" 14 Ga. Channel) | 53 |
| EC12 | End Cap (13/16" 12 Ga. or 14 Ga. Channel) | 53 |
| EF10 | Hinged Fluorescent Fixture Hanger | 54 |
| EF11 | Hinged Fluorescent Fixture Hanger | 54 |
| EF12 | Hinged Fluorescent Fixture Hanger | 54 |
| EF13 | Hinged Fluorescent Fixture Hanger | 54 |
| EF19 | Fixture Stud Nut | 55 |
| EF20 | End Cap Knock Out with Hardware | 55 |
| EF21 | Wiring Stud | 55 |
| EF22 | Conduit Connection Plate with Hardware | 55 |
| EF30 | Channel Splice 4 Hole Assembly with Tapped Plate and Hardware | 56 |
| EF31 | Channel Splice 4 Hole Assembly with Stud Plate and Hardware | 56 |
| EF33 | Inside Strut Joiner for 13/16" or 1 5/8" channel | 56 |
| EF40 | Outlet Box Bolt Down with Hardware | 56 |
| EF41 | Junction Box Universal with 1 Connector | 57 |
| EF42 | Junction Box Universal with 2 Connectors at 90 Degrees | 57 |
| EF43 | Junction Box Universal with 2 Connectors Opposite | 57 |
| EF44 | Junction Box Universal with 3 Connectors | 57 |
| EF45 | Junction Box Universal with 4 Connectors | 57 |
| EF46 | 1/4" x 3/4" Carriage Bolt and 1/4" Wing Nut | 57 |
| F09 THRU F15 | Square Washer | 24 |
| F19 THRU F24 | No Twist Square Washer | 24 |
| F30 | 2 Hole Splice Plate | 24 |
| F31 | 3 Hole Splice Plate | 24 |
| F32 | 4 Hole Splice Plate | 24 |
| F33 | 5 Hole Splice Plate | 25 |
| F34 | 2 Hole Parallel Splice Plate | 25 |
| F35 | 4 Hole Parallel Splice Plate | 25 |
| F36 | 3 Hole Parallel Splice Plate | 25 |
| F40 | 2 Hole Swivel Plate | 25 |
| F41 | 3 Hole Swivel Plate | 25 |
| F50 | 3 Hole Corner Plate | 26 |
| F51 | 4 Hole Corner Plate | 26 |
| F52 | 3 Hole Corner Gusset Plate | 26 |
| F53 | 4 Hole Corner Gusset Plate | 26 |
| F54 | 5 Hole Corner Gusset Plate | 26 |
| F60 | 4 Hole Tee Plate | 26 |
| F61 | 3 Hole Tee Gusset Plate | 27 |
| F62 | 4 Hole Tee Gusset Plate | 27 |
| F63 | 5 Hole Tee Gusset Plate | 27 |
| F70 | 5 Hole Cross Plate | 27 |
| F71 | 7 Hole Cross Gusset Plate | 27 |
| FW | Flat Washer | 14 |
| HCS | Hex Head Cap Screw | 14 |
| HN | Hex Nut | 14 |
| L10 | 2 Hole No Twist Corner Angle | 28 |
| L11 | 2 Hole Corner Angle | 28 |
| L12 | 3 Hole Corner Angle | 28 |
| L13 | 4 Hole Corner Angle | 28 |
| L14 | 2 Hole 3" Corner Angle | 28 |
| L15 | 2 Hole 3-1/2" Corner Angle | 28 |
| L16 | 2 Hole 4" Corner Angle | 29 |
| L20 | 2 Hole Cross Corner Angle | 29 |
| L21 | 3 Hole Corner Angle | 29 |
| L22 | 3 Hole Cross Gusset Corner Angle | 29 |
| L23 | 5 Hole Cross Gusset Corner Angle | 29 |
| L24 | 4 Hole Gusset Shelf Angle | 29 |
| L25 | 4 Hole Gusset Corner Angle | 30 |
| L30 | 3 Hole 3 Way Corner Angle | 30 |
| L31 | 4 Hole 3 Way Corner Angle | 30 |
| L32 | 4 Hole 3 Way Gusset Corner Angle | 30 |
| L33 | 5 Hole 3 Way Gusset Corner Angle | 30 |
| L34 | 7 Hole Universal Gusset Corner Angle | 30 |
| L35 | 4 Hole Gusset Corner Angle Left | 31 |
| L36 | 4 Hole Gusset Corner Angle Right | 31 |
| L40 | 2 Hole 2-5/8" Adjustable Corner Angle | 31 |
| L41 | 2 Hole 4-7/8" Adjustable Corner Angle | 31 |
| L42 | 2 Hole 6-7/8" Adjustable Corner Angle | 31 |
| L43 | 3 Hole Adjustable Corner Angle | 31 |
| L44 | 2 Hole Adjustable Gusset Corner Angle | 32 |
| L45 | 4 Hole 65/8" Adjustable Gusset Corner Angle | 32 |
| L46 | 4 Hole 85/8"Adjustable Corner Angle | 32 |

# Index


| Part | Desciption | Page |
|---|---|---|
| L50 | 4 Hole Offset Corner Angle | 32 |
| L51 | 4 Hole Offset Bent Tee (left hand) | 32 |
| L52 | 4 Hole Offset Bent Tee (right hand) | 32 |
| L60 | 2 Hole Open 45 Degree Corner Angle | 33 |
| L61 | 2 Hole Closed 45 Degree Corner Angle | 33 |
| L62 | 4 Hole Open 45 Degree Corner Angle | 33 |
| L63 | 4 Hole Closed 45 Degree Corner Angle | 33 |
| L64 | 4 Hole Adjustable Corner Angle | 34 |
| L64H | 2 Hole Adjustable Angle Half | 34 |
| L65 | 3 Hole Adjustable Corner Angle | 34 |
| L66 | 2 Hole Adjustable Corner Angle | 34 |
| L66H | 1 Hole Adjustable Angle Half | 34 |
| L67 | Adjustable Brace Fitting | 35 |
| L68 | Double Adjustable Brace Fitting | 35 |
| L70 | 1 Hole 3-7/8" Corner Angle | 36 |
| L71 | 1 Hole 5-7/8" Corner Angle | 36 |
| L72 | 1 Hole 7-7/8" Corner Angle | 36 |
| L73 | 1 Hole 9-7/8" Corner Angle | 36 |
| L80 | 8" Angle Brace | 37 |
| L81 | 12" Angle Brace | 37 |
| L82 | 16" Angle Brace | 37 |
| L83 | 18" Angle Brace | 37 |
| L84 | 24" Angle Brace | 37 |
| P10 | Post Base Single Channel | 58 |
| P11 | Post Base Single Channel | 58 |
| P12 | Post Base Single Channel | 58 |
| P13 | Post Base Single Channel | 58 |
| P14 | Post Base Single Channel | 58 |
| P15 | Post Base Single Channel Gusset | 58 |
| P16 | Post Base Double Channel | 59 |
| P17 | Post Base Double Channel | 59 |
| P18 | Post Base Double Channel | 59 |
| P19 | Post Base Double Channel | 59 |
| P20 | Post Base Double Channel | 60 |
| P21 | Post Base Single Channel | 60 |
| P22 | Post Base Single Channel | 60 |
| P23 | Post Base Double Channel | 60 |
| P24 | Post Base Double Channel | 60 |
| P26 | Post Base Single Channel | 60 |
| P27 | Post Base Four Channel Combinations | 61 |
| P28 | Post Base Double Channel | 61 |
| P29 | Post Base Double Channel | 61 |
| P30 | Post Base Double Channel - Square | 61 |
| PB1 | Extended Riser Bracket | 51 |
| PB5 | Standoff Riser Bracket | 51 |
| PCH | Pipe and Conduit Hanger | 23 |
| PS2 | Pipe Strap | 23 |
| PW 2500EP | Cushioned Pipe Wrap | 22 |
| R10 | Roller Trolley 2 Bearing Assembly | 62 |
| R11 | Roller Trolley 4 Bearing Assembly | 62 |
| R20 | Pipe Roller 1" - 4" Pipe | 62 |
| R21 | Pipe Roller | 62 |
| R22 | Pipe Roller Heavy Duty 6" - 16" Pipe | 62 |
| R23 | Pipe Roller Heavy Duty 16" - 24" Pipe | 62 |
| RA | Right Angle Clamp | 46 |
| RBS | Retrofit Beam Clamp Retaining Strap for 3/8" and 1/2"Rod Sizes | 45 |
| RC | Rod Coupling | 14 |
| RS | Beam Clamp Retaining Strap for 3/8" and 1/2"Rod Sizes | 45 |
| RSB | Plain Base | 76 |
| RSB | Support with Metal Channel | 77 |
| RSB Bridge Series | Support with Metal Channel | 77 |
| SBB | Side Beam Bracket | 41 |
| SCC | Copper Tubing Strut Clamp | 17 |
| SCE | EMT Strut Clamp | 17 |
| SCH | One Piece Universal Strut Clamps | 17 |
| SCO | O.D. Strut Clamp | 18 |
| SCP | Cushioned Cable Strut Clamp | 21 |
| SCR | Rigid Strut Clamp | 16 |
| SCU | Universal Strut Clamp | 16 |
| SW10 | Swivel Female | 15 |
| SW11 | Swivel Male | 15 |
| SW12 | Swivel Female – Female | 15 |
| SW13 | Swivel Male – Female | 15 |
| TC1 | O.D. Tubing Clamp | 23 |
| U10 | U-Fitting Cross 3 Hole 13/16" | 65 |
| U11 | U-Fitting Cross 5 Hole 1-5/8" | 65 |
| U12 | U-Fitting Cross 3 Hole 2-7/16" | 65 |
| U13 | U-Fitting Cross 3 Hole 3-1/4" | 65 |
| U14 | U-Fitting Cross 3 Hole 4-7/8" | 65 |
| U15 | U-Fitting Cross 8 Hole 1-5/8" | 65 |
| U16 | U-Fitting Cross 6 Hole | 66 |
| U20 | U-Fitting Cross 1 Hole 2 Slot | 66 |
| U21 | U-Fitting Cross 1 Hole 2 Slot | 66 |
| U22 | U-Fitting Cross 1 Hole 2 Slot | 66 |
| U30 | U-Fitting Splice 2 Hole | 66 |
| U31 | U-Fitting Splice 3 Hole | 66 |
| U32 | U-Fitting Splice 4 Hole | 67 |
| U33 | U-Fitting Splice 4 Hole | 67 |
| U34 | U-Fitting Splice 2 Hole | 67 |
| U35 | U-Fitting Splice 4 Hole | 67 |
| U36 | U-Fitting Splice 4 Hole | 67 |
| U40 | U-Fitting Trolley Support | 67 |
| U41 | U-Fitting Trolley Support | 68 |
| U50 | U-Fitting 4 Hole Cup Support | 68 |
| U60 | U-Fitting Clevis 2 Hole | 68 |
| U70 | Saddle Washer | 24, 68 |
| VRS | Rod Stiffener | 14 |
| W10 | Wing Fitting Single Corner 3 Hole Right | 68 |
| W11 | Wing Fitting Single Corner 3 Hole Left | 68 |
| W12 | Wing Fitting Single Corner 4 Hole Right | 69 |
| W13 | Wing Fitting Single Corner 4 Hole Left | 69 |
| W14 | Wing Fitting Single Corner 6 Hole Gusset Right | 69 |
| W15 | Wing Fitting Single Corner 6 Hole Gusset Left | 69 |
| W16 | Wing Fitting Single Corner 6 Hole Right | 69 |
| W17 | Wing Fitting Single Corner 6 Hole Left | 69 |
| W20 | Wing Fitting Double Corner 4 Hole | 70 |
| W21 | Wing Fitting Double Corner 6 Hole | 70 |
| W22 | Wing Fitting Double Corner 8 Hole | 70 |
| W23 | Wing Fitting Double Corner 8 Hole Gusset | 70 |
| W24 | Wing Fitting Double Corner 8 Hole Double Gusset | 70 |
| W30 | Wing Fitting Corner Connector 5 Hole Opposed | 70 |
| W31 | Wing Fitting Corner Connector 8 Hole Opposed | 71 |
| W32 | Wing Fitting Corner Connector 10 Hole Opposed | 71 |
| W33 | Wing Fitting Corner Connector 10 Hole Opposed Double Gusset | 71 |
| W40 | Wing Fitting Triple Corner 6 Hole | 71 |
| W41 | Wing Fitting Triple Corner 9 Hole | 71 |
| W42 | Wing Fitting Triple Corner 12 Hole | 71 |
| W43 | Wing Fitting Triple Corner 12 Hole Gusset | 72 |
| W50 | Wing Fitting Double Corner Connector 8 Hole | 72 |
| Z10 | Z Fitting Cross 2 Hole 13/16" | 73 |
| Z11 | Z Fitting Cross 2 Hole 1-5/8" | 73 |
| Z12 | Z Fitting Cross 2 Hole 2-7/16" | 73 |
| Z13 | Z Fitting Cross 2 Hole 3-1/4" | 73 |
| Z14 | Z Fitting Cross 2 Hole 1" | 73 |
| Z20 | Z Fitting Offset Support 2 Hole | 73 |
| Z30 | Z Fitting 2 Hole Support 4" | 74 |
| Z31 | Z Fitting 2 Hole Support 5" | 74 |
| Z32 | Z Fitting 2 Hole Support 6" | 74 |
| Z33 | Z Fitting 2 Hole Support 7" | 74 |
| Z34 | Z Fitting 2 Hole Support 8" | 74 |
| Z40 | Z Fitting Channel Hanger 13/16" | 74 |
| Z41 | Z Fitting Channel Hanger 1-5/8" | 75 |
| Z42 | Z Fitting Channel Hanger 2-7/16" | 75 |
| Z43 | Z Fitting Channel Hanger 3-1/4" | 75 |
| Z50 | Z Fitting Corner Brace 3 Hole | 75 |
| Z51 | Z Fitting Corner Brace 8 Hole | 75 |
| Z60 | Z Fitting Slotted Support | 75 |

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